

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P534298

Luminaire Tested: **GALN-SA9D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54798 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

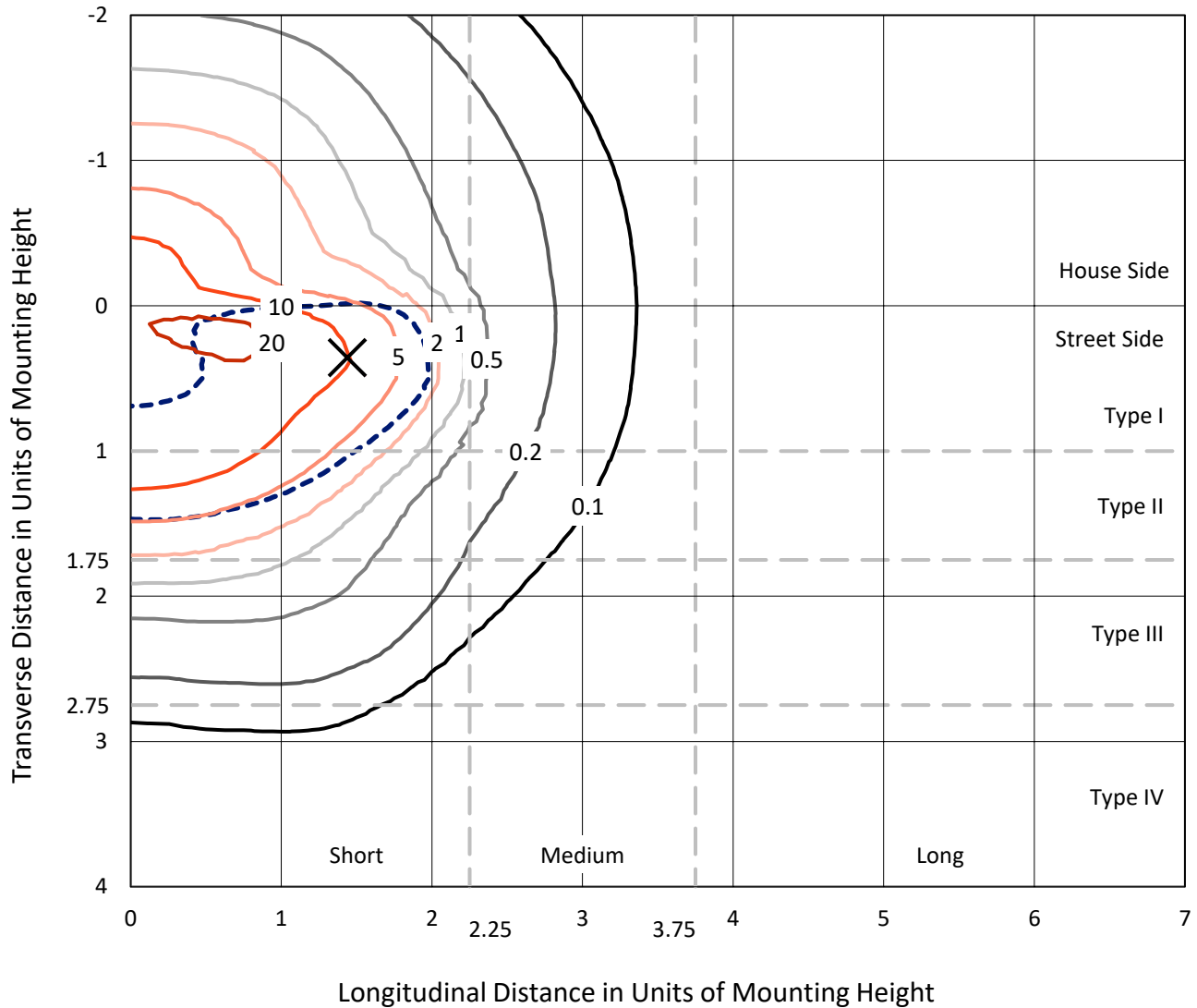
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

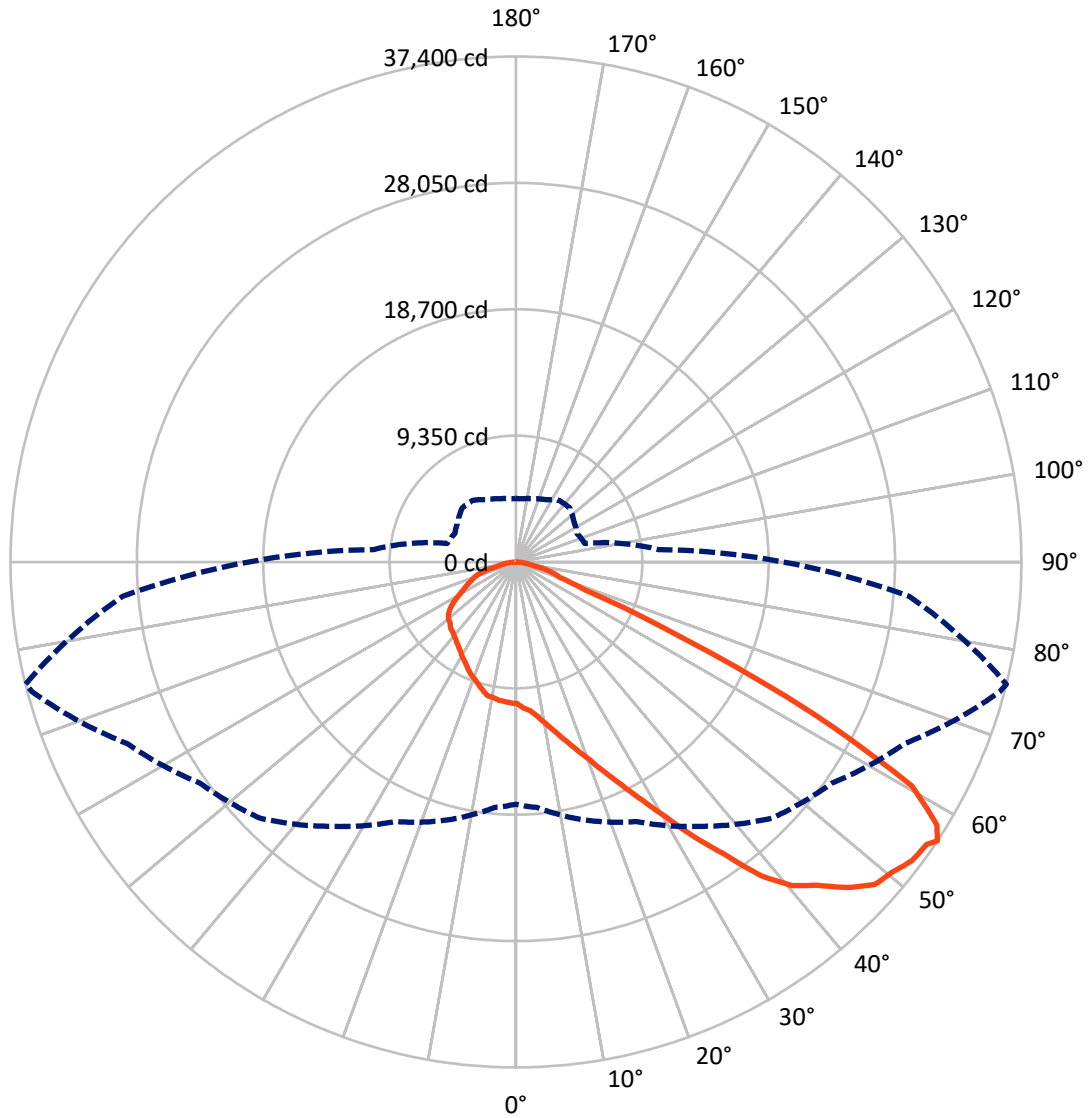
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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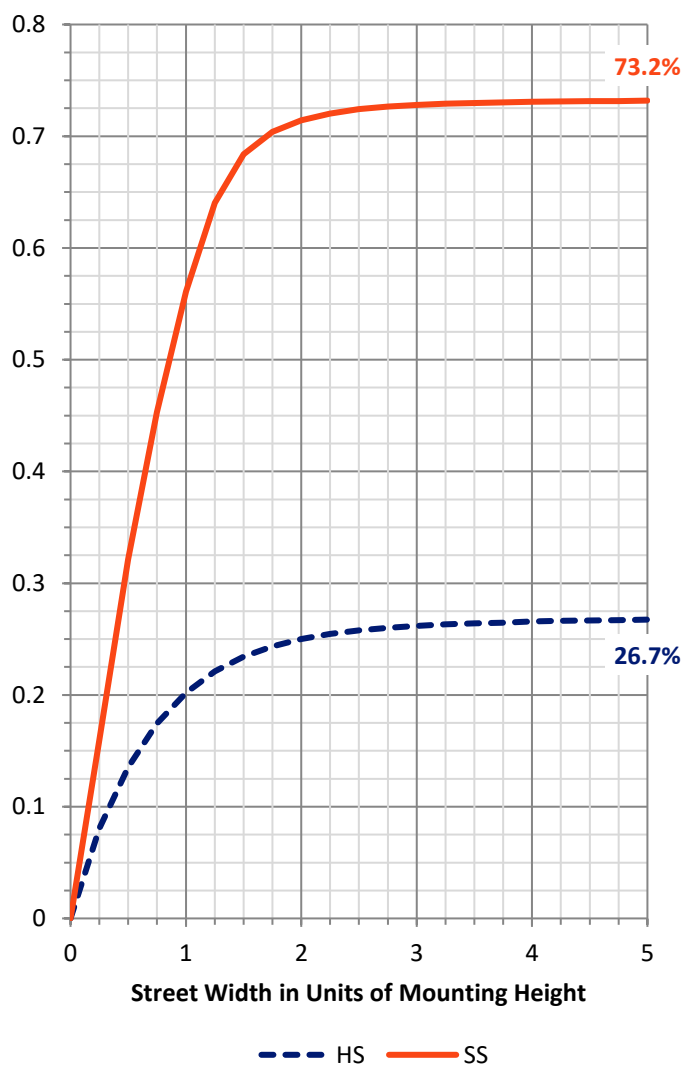
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14733.5	0.0	14733.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	40064.5	0.0	40064.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	54798.0	0.0	54798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.8	1.9
10°-20°	3266.3	6.0
20°-30°	5712.3	10.4
30°-40°	8943.8	16.3
40°-50°	13010.8	23.7
50°-60°	14299.6	26.1
60°-70°	6382.7	11.6
70°-80°	1843.6	3.4
80°-90°	299.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	54798.0	100.0
0°-180°	54798.0	100.0

Coefficient of Utilization



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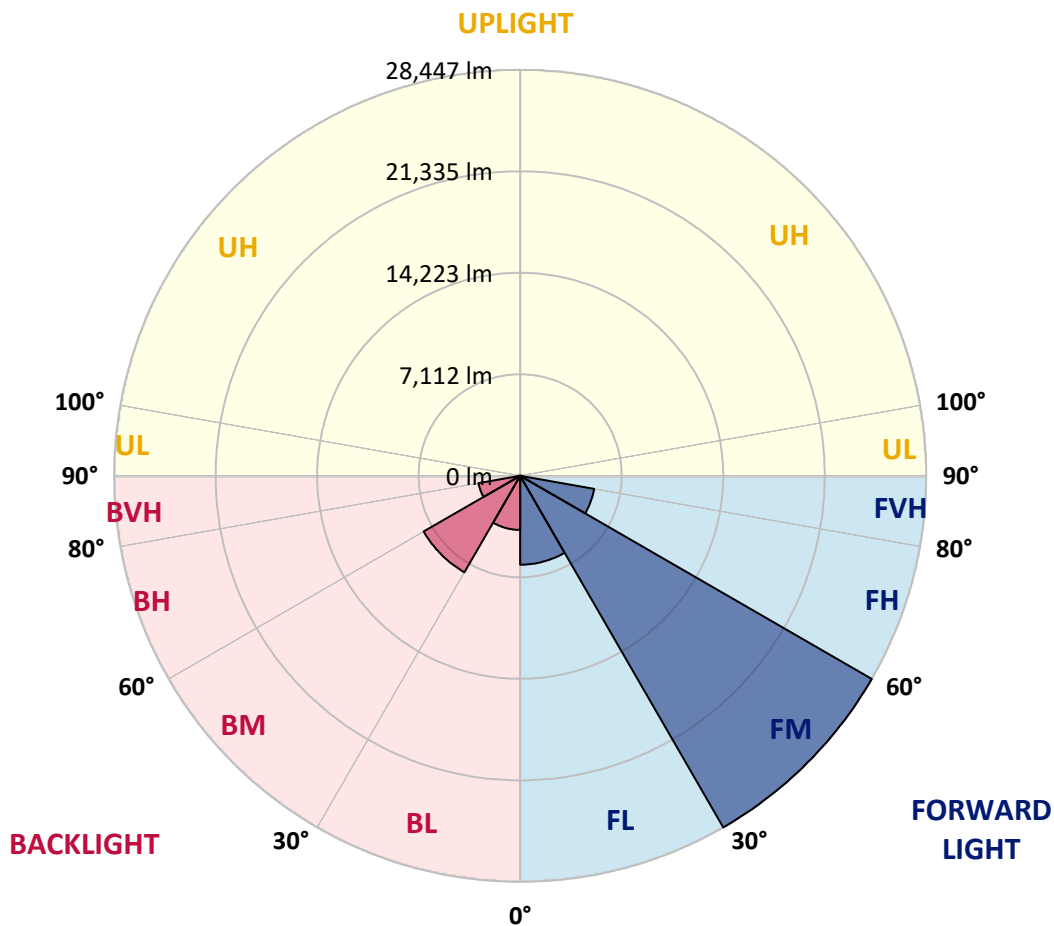
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6227.2	11.4			
FM (30°-60°)	28446.7	51.9			
FH (60°-80°)	5261.9	9.6			G3/7500
FVH (80°-90°)	128.7	0.2			G2/225
BL (0°-30°)	3791.2	6.9	B4/5000		
BM (30°-60°)	7807.6	14.2	B4/8500		
BH (60°-80°)	2964.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	170.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9
2.5°	11550.4	11365.7	11351.5	11301.8	11330.2	11202.4	11067.4	10889.8	10705.1	10818.8	10548.8
5°	12360.2	12111.6	12211.1	12040.6	12061.9	11891.4	11614.4	11408.4	11181.0	11046.1	10854.3
7.5°	12644.4	12665.7	12736.7	12708.3	12566.2	12566.2	12381.6	12019.3	11621.5	11543.3	11223.7
10°	13028.0	13035.1	12956.9	12978.3	13177.2	13084.8	12921.4	12765.1	12253.7	12161.3	11593.1
12.5°	13162.9	13035.1	13162.9	13276.6	13511.0	13638.9	13603.4	13489.7	12942.7	12878.8	12047.7
15°	13184.3	13106.1	13212.7	13468.4	13674.4	14214.3	14484.2	14406.1	13681.5	13688.6	12559.1
17.5°	13084.8	13191.4	13234.0	13454.2	13930.1	14434.5	15215.9	15322.4	14725.7	14633.4	13205.6
20°	13219.8	13141.6	13198.5	13397.4	14029.6	14818.1	15841.0	16544.3	15706.0	15642.1	13873.3
22.5°	13738.3	13631.8	13617.6	13745.4	14200.1	15017.0	16501.6	17766.1	16899.4	16935.0	14704.4
25°	14143.2	14200.1	14150.3	14143.2	14427.4	15315.3	17375.4	19222.3	18519.1	18313.0	15684.7
27.5°	14839.4	14974.4	14874.9	15009.9	14945.9	15762.9	18000.5	20834.8	20266.5	19989.5	16572.7
30°	15805.5	15876.5	15784.2	15784.2	15592.4	16388.0	18568.8	22518.4	22284.0	21907.5	17616.9
32.5°	17077.0	17183.6	16998.9	16892.3	16863.9	17318.5	19591.7	24180.6	24578.4	24258.7	19002.1
35°	18760.6	18696.6	18476.4	18377.0	17993.4	18746.4	21111.9	26091.5	27135.7	26567.4	20678.5
37.5°	20245.2	20145.8	20131.6	19577.5	19669.8	20287.8	22404.7	27540.6	29614.9	29451.5	22447.3
40°	21630.4	21722.8	21871.9	21559.4	21417.3	22099.3	23910.7	28648.8	31539.9	31476.0	23811.2
42.5°	23115.1	23029.8	23292.7	23029.8	22816.7	23782.8	25544.5	29416.0	33230.6	32704.9	25239.0
45°	25267.5	24997.5	25089.9	25111.2	24954.9	25310.1	26219.3	29970.0	34416.9	34360.0	26283.3
47.5°	27064.7	27071.8	26915.5	26794.7	26318.8	26674.0	26972.3	30318.1	35780.8	35688.4	26688.2
50°	27732.4	27640.1	28094.7	28357.5	28385.9	27661.4	27561.9	30509.9	36498.2	36093.3	27093.1
52.5°	25331.4	25416.6	26134.1	27696.9	28599.0	28677.2	28251.0	30907.7	36789.5	36704.2	27419.8
55°	20387.3	20799.3	21978.5	23782.8	25921.0	28272.3	28996.8	31319.7	36945.8	36874.7	28869.0
56°	17922.3	18242.0	19776.4	21190.0	23875.2	26801.8	28528.0	31760.1	37066.5	37400.4	29209.9
57.5°	14427.4	14796.8	15897.8	17503.2	20671.4	24003.0	27235.2	31220.3	36597.7	36725.5	29458.6
60°	9021.6	9057.1	10378.3	11436.8	13667.3	16920.7	20785.1	27164.1	33869.9	33685.2	26460.9
62.5°	5917.3	5924.4	7124.9	7991.5	9007.3	9753.2	12232.4	18014.7	24990.4	24663.7	18838.7
65°	4155.6	4247.9	5178.5	6336.4	6748.4	6357.7	6279.6	9497.5	13958.5	13489.7	10122.6
67.5°	3040.3	3047.4	3871.5	5114.6	5711.3	4837.5	3928.3	4638.6	5526.6	5512.4	4688.4
70°	2010.3	2095.6	2727.8	3821.7	4503.7	3885.7	3210.8	3317.4	3516.3	3516.3	3487.9
72.5°	1172.1	1250.2	1669.3	2422.3	2528.9	2429.4	2543.1	2841.4	2969.3	2962.2	2926.7
75°	667.7	703.3	795.6	1008.7	1257.3	1484.6	1868.2	2152.4	2280.3	2358.4	2266.0
77.5°	390.7	412.0	468.8	575.4	653.5	802.7	1015.8	1214.7	1385.2	1363.9	1378.1
80°	206.0	206.0	262.8	341.0	454.6	568.3	674.8	788.5	880.8	902.2	923.5
82.5°	120.8	127.9	170.5	248.6	326.8	404.9	518.6	596.7	681.9	689.0	703.3
85°	63.9	71.0	106.6	163.4	220.2	248.6	255.7	241.5	262.8	248.6	284.1
87.5°	21.3	21.3	35.5	28.4	28.4	35.5	42.6	42.6	56.8	56.8	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9	10484.9
2.5°	10541.7	10541.7	10421.0	10193.6	10158.1	10065.8	9980.5	9973.4	9909.5	9852.7	9824.3
5°	10740.6	10520.4	10342.8	10136.8	9895.3	9781.6	9653.8	9511.7	9454.9	9511.7	9504.6
7.5°	10967.9	10783.2	10250.5	9866.9	9589.8	9476.2	9334.1	9184.9	9199.1	9199.1	9099.7
10°	11188.1	10939.5	10087.1	9596.9	9192.0	9106.8	9028.7	9085.5	9156.5	9170.7	9106.8
12.5°	11557.5	10996.4	10009.0	9327.0	9071.3	8886.6	8936.3	9092.6	9241.8	9199.1	9248.9
15°	11834.6	11046.1	9653.8	9050.0	8730.3	8815.6	8993.1	9099.7	9348.3	9319.9	9369.6
17.5°	12104.5	11074.5	9305.7	8680.6	8545.6	8780.0	8915.0	9220.5	9298.6	9469.1	9533.0
20°	12658.6	11131.3	8950.5	8453.3	8410.6	8680.6	8915.0	9057.1	9227.6	9376.7	9376.7
22.5°	12942.7	11102.9	8716.1	8154.9	8289.9	8460.4	8673.5	8915.0	8915.0	9057.1	9064.2
25°	13297.9	10989.2	8346.7	8012.8	8112.3	8275.7	8517.2	8432.0	8524.3	8524.3	8638.0
27.5°	13702.8	10747.7	8027.1	7757.1	7956.0	8133.6	8169.1	8112.3	8005.7	7991.5	7948.9
30°	14029.6	10449.4	7792.6	7671.9	7835.3	7934.7	7821.0	7700.3	7515.6	7501.4	7401.9
32.5°	14477.1	10080.0	7501.4	7458.8	7643.5	7650.6	7615.0	7430.4	7160.4	7046.8	6933.1
35°	15230.1	9866.9	7281.2	7345.1	7401.9	7380.6	7316.7	7117.8	6847.9	6798.1	6755.5
37.5°	15784.2	9710.6	7053.9	7132.0	7181.7	7210.1	7018.3	6798.1	6805.2	6705.8	6677.4
40°	16409.3	9611.2	6869.2	6904.7	6911.8	7004.1	6769.7	6663.2	6712.9	6649.0	6691.6
42.5°	17212.0	9639.6	6677.4	6649.0	6783.9	6748.4	6634.7	6492.7	6521.1	6329.3	6357.7
45°	17638.2	9831.4	6563.7	6435.8	6585.0	6577.9	6428.7	6293.8	6123.3	5753.9	5768.1
47.5°	17922.3	9881.1	6293.8	6208.5	6364.8	6457.2	6286.7	5974.1	5732.6	5469.8	5405.8
50°	18213.6	9973.4	6165.9	5988.3	6052.3	6272.5	6059.4	5761.0	5526.6	5292.2	5327.7
52.5°	18469.3	10151.0	5917.3	5654.5	5768.1	6009.6	5896.0	5533.7	5278.0	5086.2	5029.3
55°	19605.9	10548.8	5498.2	5157.2	5427.1	5732.6	5668.7	5228.2	4951.2	4851.7	4837.5
56°	19783.5	10563.0	5278.0	4986.7	5235.3	5640.2	5562.1	5093.3	4844.6	4688.4	4695.5
57.5°	19811.9	10392.5	4965.4	4830.4	5043.5	5505.3	5405.8	4986.7	4645.7	4503.7	4461.1
60°	17432.2	8112.3	4574.7	4489.5	4738.1	5093.3	5057.8	4695.5	4311.9	4148.5	4226.6
62.5°	11884.3	5945.7	4269.3	4255.0	4382.9	4731.0	4638.6	4311.9	3992.2	3885.7	3835.9
65°	6918.9	4510.8	3970.9	3914.1	4020.6	4205.3	4269.3	3928.3	3594.4	3523.4	3502.1
67.5°	4084.6	3729.4	3587.3	3495.0	3459.4	3573.1	3622.8	3423.9	3090.1	2990.6	3075.9
70°	3416.8	3317.4	3324.5	3168.2	3083.0	3004.8	2962.2	2784.6	2507.6	2379.7	2344.2
72.5°	2948.0	2905.4	2877.0	2734.9	2656.7	2479.2	2294.5	2116.9	1910.9	1804.3	1811.4
75°	2251.8	2237.6	2251.8	2180.8	2045.8	1903.8	1733.3	1506.0	1349.7	1214.7	1243.1
77.5°	1342.6	1385.2	1406.5	1378.1	1321.3	1193.4	1086.8	937.7	788.5	681.9	667.7
80°	923.5	959.0	994.5	959.0	902.2	809.8	696.2	582.5	475.9	419.1	404.9
82.5°	703.3	738.8	760.1	724.6	653.5	554.1	475.9	397.8	312.6	255.7	241.5
85°	255.7	291.2	284.1	341.0	369.4	355.2	305.5	234.4	177.6	127.9	120.8
87.5°	71.0	63.9	71.0	71.0	71.0	63.9	56.8	56.8	56.8	35.5	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)