

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: P532194

Luminaire Tested: **GALN-SA7C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40085 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

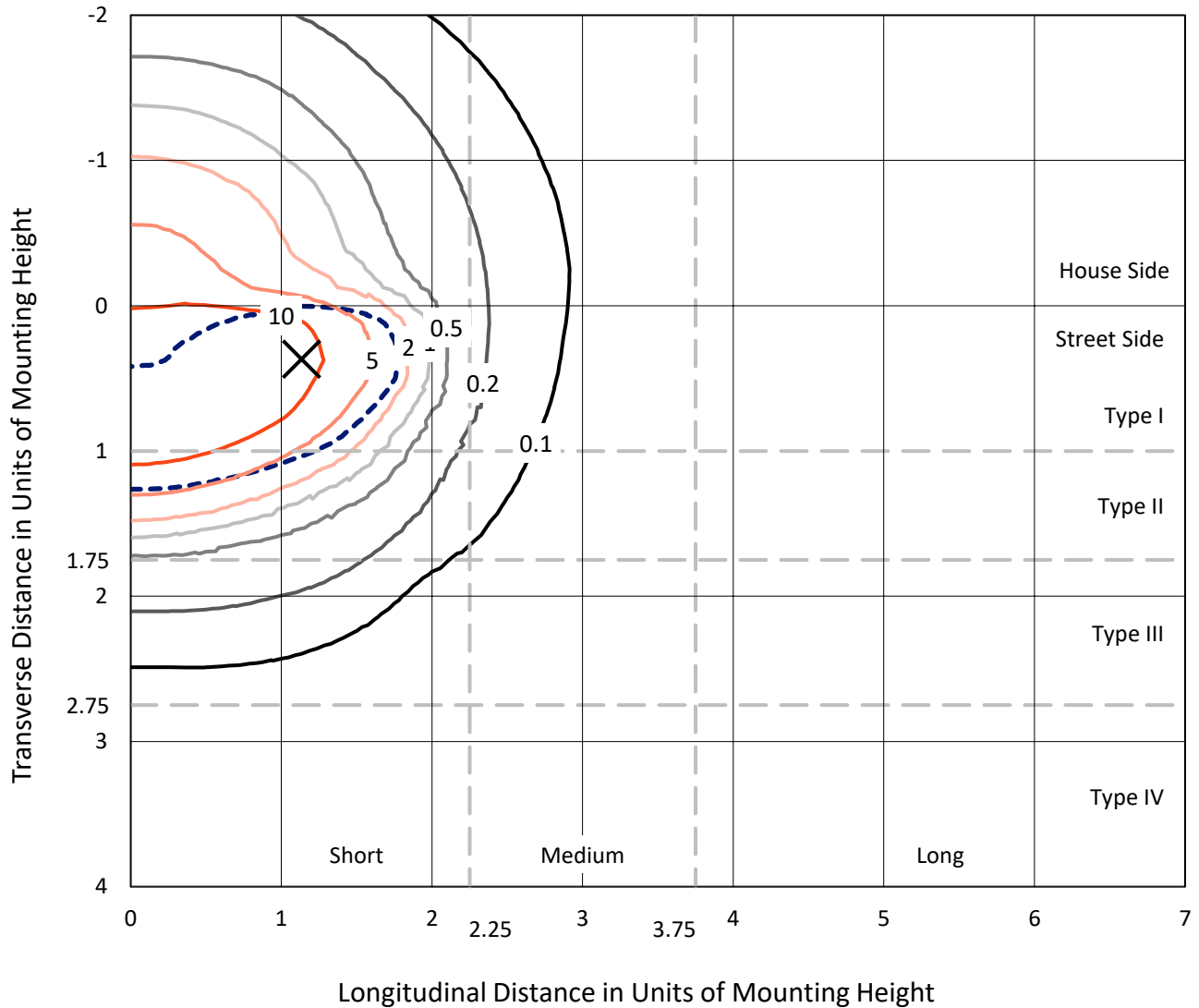
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

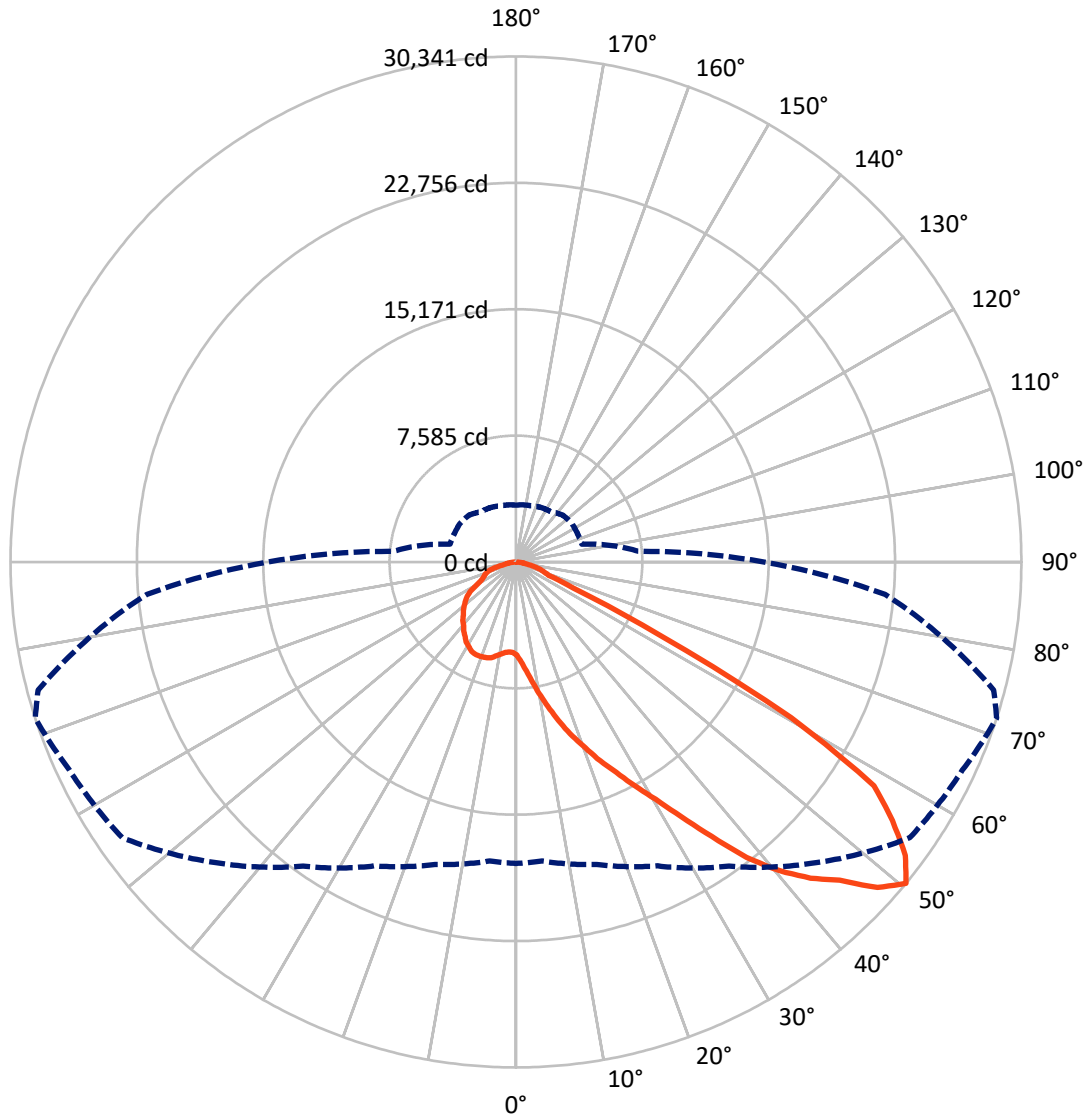
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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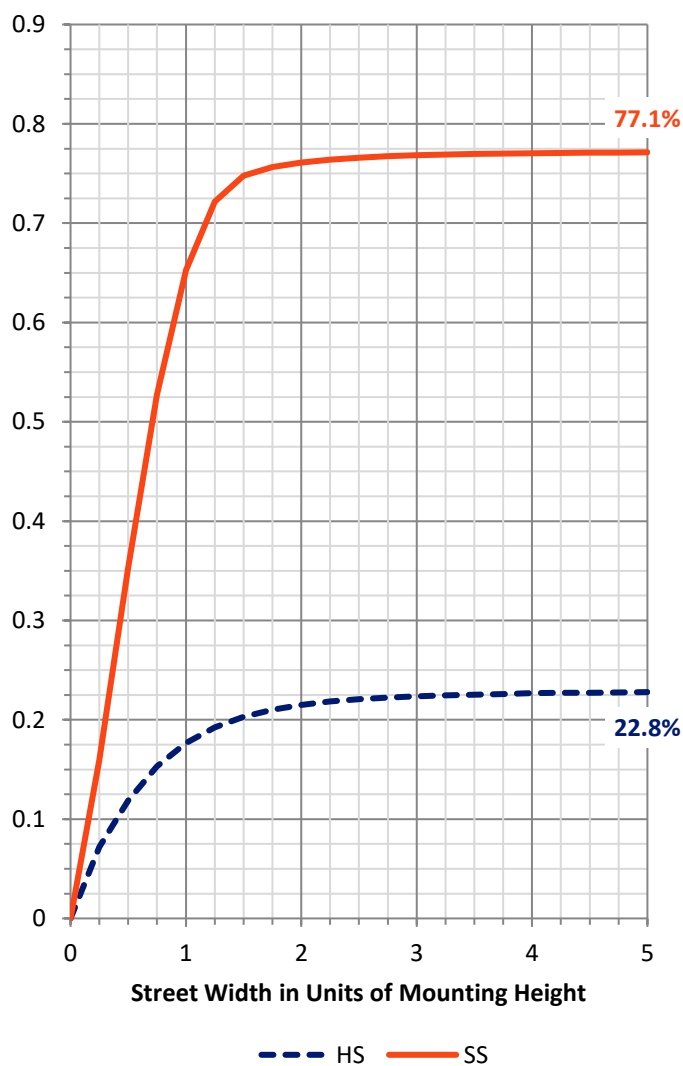
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9183.7	0.0	9183.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	30901.3	0.0	30901.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	40085.0	0.0	40085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.4	1.6
10°-20°	2453.7	6.1
20°-30°	4757.6	11.9
30°-40°	7881.7	19.7
40°-50°	11028.2	27.5
50°-60°	9303.7	23.2
60°-70°	2835.8	7.1
70°-80°	994.9	2.5
80°-90°	173.0	0.4
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°	40085.0	100.0
0°-180°	40085.0	100.0

Coefficient of Utilization

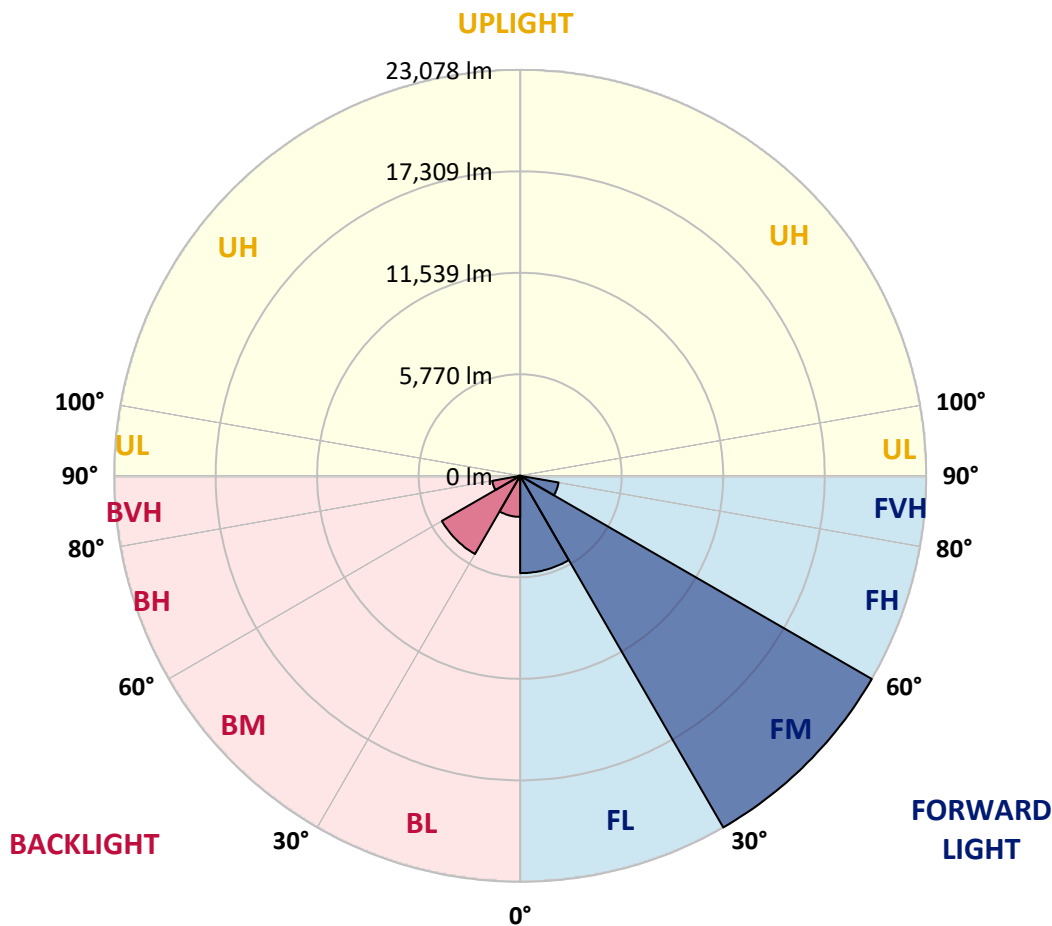


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5533.2	13.8			
FM (30°-60°)	23078.0	57.6			
FH (60°-80°)	2212.6	5.5			G2/5000
FVH (80°-90°)	77.5	0.2			G1/100
BL (0°-30°)	2334.5	5.8	B3/2500		
BM (30°-60°)	5135.7	12.8	B4/8500		
BH (60°-80°)	1618.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	95.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2
2.5°	7177.3	7132.7	6998.8	6954.1	6795.4	6507.7	6408.5	6115.9	5991.9	5877.8	5743.9
5°	9077.1	8868.8	8853.9	8600.9	8233.9	8020.6	7385.7	6959.1	6567.2	6368.8	6001.8
7.5°	10287.4	10292.3	10292.3	10084.0	9791.3	9250.7	8680.3	7911.4	7321.2	7028.5	6403.6
10°	11438.1	11338.9	11284.4	11264.5	11066.1	10540.3	9930.2	8977.9	8169.4	7827.1	6706.1
12.5°	12251.6	12167.3	12291.3	12226.8	12082.9	11740.7	11165.3	10079.0	9067.2	8605.9	7192.2
15°	12638.5	12698.0	12797.2	12975.8	12911.3	12782.3	12147.4	11209.9	10034.4	9513.6	7623.8
17.5°	13233.7	13070.0	13189.1	13412.3	13590.8	13531.3	13169.2	12028.4	10991.7	10351.8	8204.1
20°	13650.3	13556.1	13615.6	13873.6	14007.5	14344.8	14156.3	13099.8	11909.3	11234.7	8888.6
22.5°	14840.8	14701.9	14508.5	14548.1	14597.7	14835.8	14880.5	14275.3	12975.8	12261.5	9538.4
25°	16309.0	16180.0	15951.9	15718.7	15574.9	15530.2	15684.0	15197.9	13997.6	13258.5	10237.8
27.5°	17926.0	17707.8	17563.9	17082.8	16695.9	16636.4	16562.0	16299.1	15207.8	14409.2	11026.4
30°	19498.4	19324.8	19131.3	18362.5	17960.7	17896.2	17529.2	17603.6	16522.3	15634.4	11919.3
32.5°	20688.8	20703.7	20262.2	19681.9	19304.9	18962.7	18828.7	19042.0	18208.7	17494.5	12916.2
35°	21651.1	21695.7	21274.1	20748.3	20341.6	20579.7	20520.2	20619.4	20222.5	19349.6	14076.9
37.5°	22588.5	22365.3	21914.0	21661.0	21447.7	21839.6	22345.5	22429.8	22504.2	21477.5	15426.1
40°	22742.3	22762.1	22499.3	22677.8	22410.0	23000.2	24175.8	24066.7	24369.2	23471.5	16889.3
42.5°	22524.1	22568.7	22672.9	22925.8	23570.7	24280.0	26025.9	25579.5	25946.6	25148.0	18312.9
45°	22166.9	21983.4	22112.4	23074.6	24190.7	25768.0	27717.3	27370.1	27251.1	26581.5	20009.3
47.5°	20460.6	20649.1	21050.9	22236.4	23912.9	26025.9	28917.7	28838.3	29195.5	28724.3	21551.9
50°	18094.6	18020.2	18794.0	20128.3	22290.9	25520.0	28853.2	29572.4	30341.3	29686.5	22241.3
52.5°	13551.1	13948.0	14612.6	16269.3	19354.5	22762.1	27444.5	28644.9	29269.9	29131.0	21685.8
55°	8566.2	8685.2	9087.0	11056.2	13833.9	18268.2	23526.0	26308.7	27424.7	27945.5	21174.9
57.5°	4161.6	3938.4	4429.4	6011.7	7990.8	12286.3	18144.2	22915.9	25341.4	26283.9	20063.8
60°	2172.5	2256.9	2450.3	3015.8	4131.8	6378.8	11309.2	15272.3	18977.6	20425.9	15207.8
62.5°	1800.5	1830.3	1959.3	2242.0	2747.9	3670.5	5773.6	7445.2	9677.3	10981.8	8650.5
65°	1527.7	1542.6	1681.5	1870.0	2192.4	2584.2	2971.1	3110.0	3764.8	3864.0	3075.3
67.5°	1274.8	1289.6	1438.4	1617.0	1825.3	1929.5	2028.7	2018.8	2093.2	2063.4	2058.5
70°	982.1	997.0	1150.8	1339.2	1443.4	1383.9	1691.4	1760.9	1790.6	1815.4	1855.1
72.5°	709.3	739.1	858.1	992.0	937.5	1076.4	1393.8	1498.0	1537.6	1552.5	1602.1
75°	515.9	525.8	555.5	515.9	595.2	749.0	982.1	1111.1	1160.7	1175.6	1250.0
77.5°	228.2	233.1	238.1	297.6	381.9	466.3	585.3	689.5	758.9	778.7	798.6
80°	119.0	124.0	153.8	203.4	272.8	342.3	426.6	486.1	530.7	535.7	555.5
82.5°	74.4	79.4	109.1	143.8	193.4	253.0	312.5	362.1	396.8	401.8	406.7
85°	34.7	44.6	64.5	89.3	129.0	163.7	168.6	143.8	153.8	158.7	148.8
87.5°	9.9	14.9	19.8	14.9	19.8	19.8	24.8	29.8	29.8	29.8	34.7
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°	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2	5580.2
2.5°	5669.5	5624.8	5451.2	5386.7	5218.1	5247.8	5158.6	5153.6	5133.8	5128.8	5123.8
5°	5808.3	5669.5	5461.1	5302.4	5208.2	5198.2	5133.8	5133.8	5153.6	5168.5	5133.8
7.5°	6036.5	5877.8	5525.6	5376.8	5292.5	5277.6	5233.0	5198.2	5242.9	5228.0	5188.3
10°	6299.4	6021.6	5649.6	5520.7	5381.8	5347.0	5347.0	5361.9	5287.5	5312.3	5272.6
12.5°	6592.0	6220.0	5808.3	5659.5	5495.9	5476.0	5466.1	5357.0	5396.6	5376.8	5277.6
15°	6964.1	6448.2	6011.7	5758.7	5619.9	5530.6	5401.6	5381.8	5357.0	5307.4	5262.7
17.5°	7365.8	6696.2	6106.0	5788.5	5580.2	5515.7	5416.5	5312.3	5237.9	5247.8	5213.1
20°	7708.1	6924.4	6140.7	5818.3	5550.4	5426.4	5272.6	5208.2	5128.8	5123.8	5118.9
22.5°	8114.8	7231.9	6190.3	5738.9	5461.1	5332.2	5228.0	5113.9	5059.4	4989.9	5024.6
25°	8600.9	7350.9	6200.2	5694.3	5396.6	5168.5	5113.9	4989.9	4970.1	4870.9	4890.7
27.5°	8953.1	7415.4	6120.8	5555.4	5247.8	5074.2	4975.0	4885.8	4851.0	4776.6	4756.8
30°	9424.3	7514.6	5952.2	5381.8	5099.0	4905.6	4846.1	4826.2	4727.0	4647.7	4637.7
32.5°	9960.0	7579.1	5843.1	5203.2	4945.3	4796.5	4826.2	4732.0	4608.0	4538.5	4518.7
35°	10386.6	7603.9	5570.3	4999.8	4841.1	4746.9	4712.1	4692.3	4513.7	4449.3	4399.7
37.5°	11036.3	7549.4	5342.1	4856.0	4727.0	4692.3	4662.5	4528.6	4325.3	4231.0	4161.6
40°	11795.2	7534.5	5049.4	4652.6	4617.9	4657.6	4568.3	4360.0	4077.2	3973.1	3923.5
42.5°	12524.4	7638.6	4865.9	4543.5	4498.9	4513.7	4389.7	4077.2	3938.4	3878.8	3799.5
45°	13744.6	7856.9	4563.3	4374.9	4355.0	4345.1	4196.3	3868.9	3789.6	3715.2	3700.3
47.5°	14845.7	7713.0	4369.9	4201.3	4221.1	4166.5	3849.1	3744.9	3655.6	3581.2	3556.4
50°	14910.2	7370.8	4097.1	4067.3	4072.3	3978.0	3675.5	3606.0	3491.9	3442.3	3407.6
52.5°	14572.9	6810.3	3844.1	3854.0	3868.9	3715.2	3462.2	3412.6	3318.3	3248.9	3229.1
55°	13625.5	5937.3	3596.1	3635.8	3675.5	3382.8	3303.5	3179.5	3105.1	3005.9	3010.8
57.5°	12003.6	4781.6	3248.9	3313.4	3397.7	3075.3	3015.8	2862.0	2752.9	2673.5	2663.6
60°	8045.4	3402.7	2728.1	2752.9	2941.4	2812.4	2807.4	2653.7	2504.9	2435.4	2395.8
62.5°	4746.9	2599.1	2356.1	2331.3	2326.3	2400.7	2524.7	2470.2	2276.7	2142.8	2182.5
65°	2485.0	2246.9	2192.4	2108.1	2058.5	2038.6	2132.9	2157.7	2028.7	1884.9	1874.9
67.5°	2088.2	2088.2	2043.6	2013.8	1944.4	1860.1	1800.5	1721.2	1701.3	1661.7	1612.1
70°	1899.7	1949.3	1934.5	1865.0	1805.5	1711.3	1557.5	1428.5	1304.5	1259.9	1289.6
72.5°	1656.7	1706.3	1706.3	1671.6	1592.2	1448.4	1299.6	1150.8	1046.6	967.2	957.3
75°	1274.8	1299.6	1359.1	1319.4	1215.2	1126.0	972.2	818.4	719.2	644.8	629.9
77.5°	813.5	853.1	853.1	848.2	773.8	689.5	590.3	481.1	406.7	352.2	337.3
80°	540.7	565.5	585.3	565.5	515.9	451.4	377.0	302.6	248.0	203.4	193.4
82.5°	396.8	426.6	441.5	421.6	372.0	322.4	267.8	213.3	158.7	124.0	114.1
85°	153.8	158.7	178.6	213.3	208.3	203.4	163.7	119.0	89.3	64.5	59.5
87.5°	39.7	34.7	39.7	39.7	34.7	29.8	29.8	29.8	29.8	14.9	19.8
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)