

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: P530346

Luminaire Tested: **GALN-SA5C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530346
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-SA5C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 29532 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

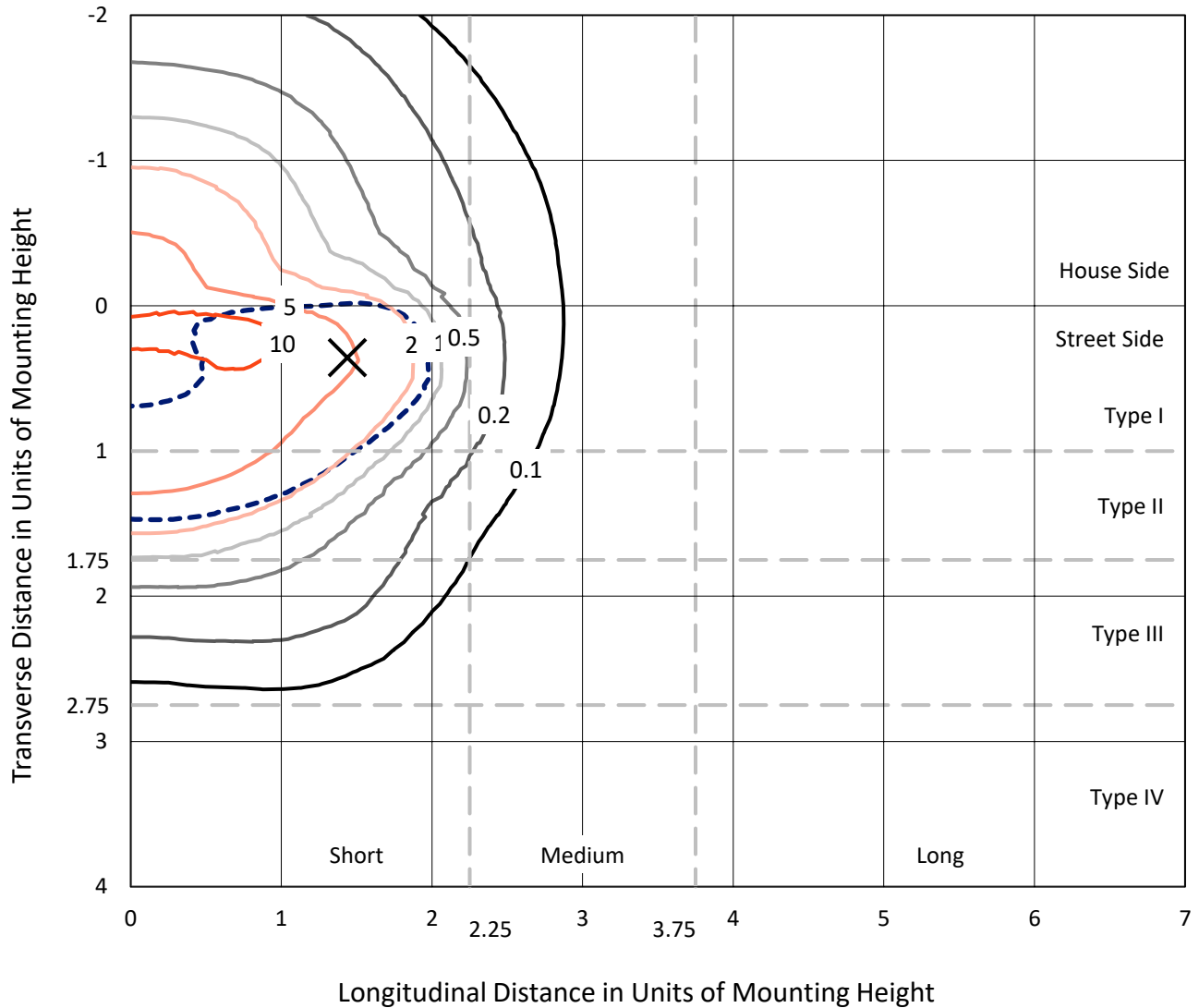
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

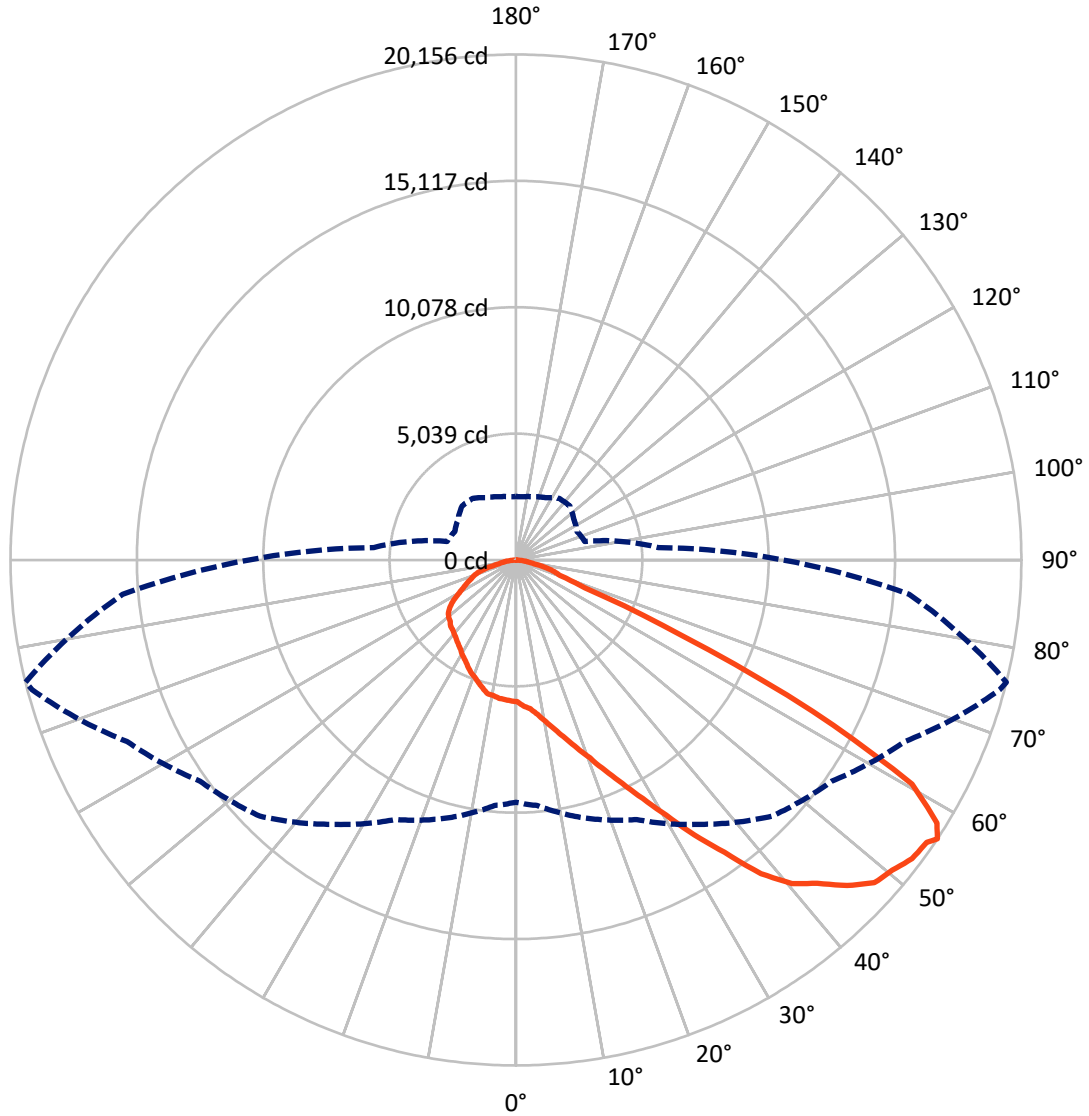
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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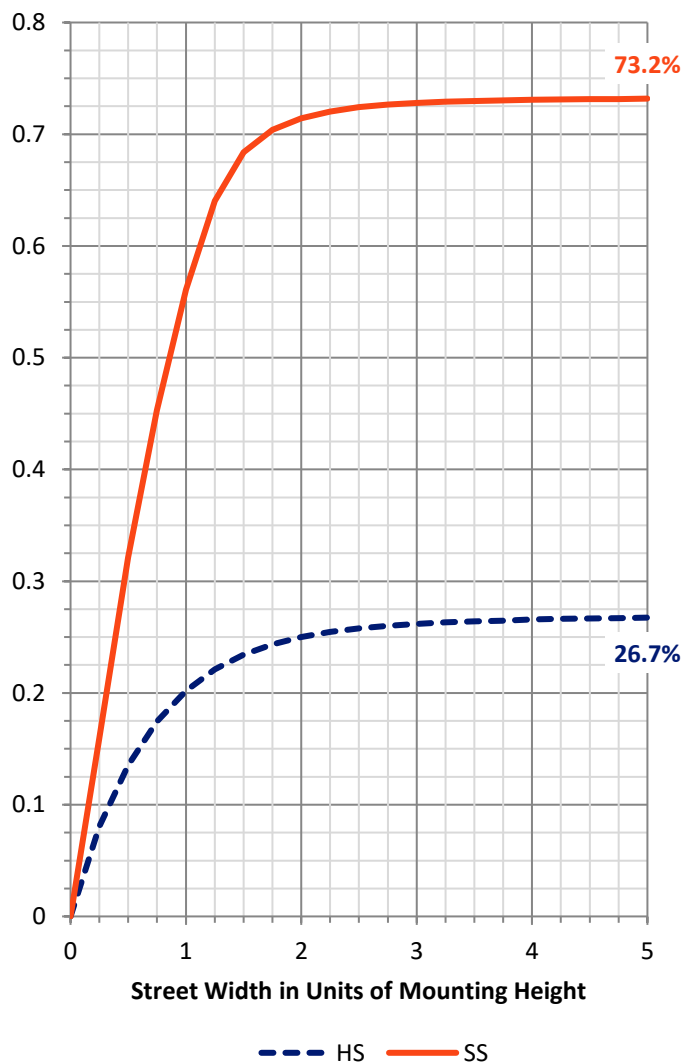
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7940.3	0.0	7940.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	21591.7	0.0	21591.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	29532.0	0.0	29532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	1.9
10°-20°	1760.3	6.0
20°-30°	3078.5	10.4
30°-40°	4820.1	16.3
40°-50°	7011.8	23.7
50°-60°	7706.4	26.1
60°-70°	3439.8	11.6
70°-80°	993.5	3.4
80°-90°	161.2	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°	29532.0	100.0
0°-180°	29532.0	100.0

Coefficient of Utilization



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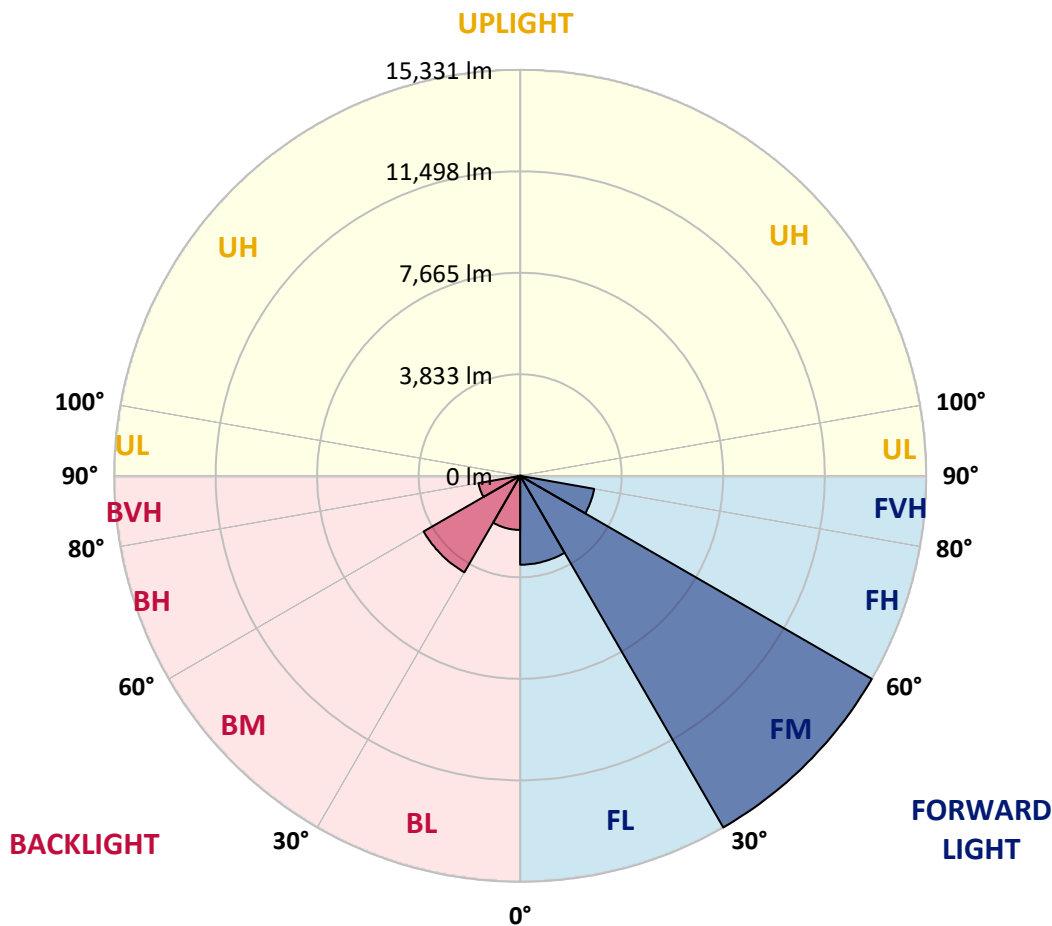
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3356.0	11.4			
FM (30°-60°)	15330.6	51.9			
FH (60°-80°)	2835.8	9.6			G2/5000
FVH (80°-90°)	69.4	0.2			G1/100
BL (0°-30°)	2043.2	6.9	B3/2500		
BM (30°-60°)	4207.7	14.2	B3/5000		
BH (60°-80°)	1597.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	91.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6
2.5°	6224.8	6125.3	6117.6	6090.8	6106.1	6037.2	5964.5	5868.8	5769.2	5830.5	5685.0
5°	6661.2	6527.2	6580.8	6489.0	6500.5	6408.6	6259.3	6148.2	6025.7	5953.0	5849.6
7.5°	6814.4	6825.9	6864.1	6848.8	6772.3	6772.3	6672.7	6477.5	6263.1	6221.0	6048.7
10°	7021.1	7024.9	6982.8	6994.3	7101.5	7051.7	6963.7	6879.5	6603.8	6554.0	6247.8
12.5°	7093.8	7024.9	7093.8	7155.1	7281.4	7350.3	7331.2	7269.9	6975.2	6940.7	6492.8
15°	7105.3	7063.2	7120.6	7258.5	7369.5	7660.4	7805.9	7763.8	7373.3	7377.1	6768.4
17.5°	7051.7	7109.2	7132.1	7250.8	7507.3	7779.1	8200.2	8257.6	7936.1	7886.3	7116.8
20°	7124.5	7082.4	7113.0	7220.2	7560.9	7985.8	8537.1	8916.1	8464.4	8429.9	7476.7
22.5°	7403.9	7346.5	7338.8	7407.8	7652.8	8093.0	8893.1	9574.6	9107.5	9126.7	7924.6
25°	7622.1	7652.8	7626.0	7622.1	7775.3	8253.8	9364.0	10359.4	9980.4	9869.4	8452.9
27.5°	7997.3	8070.1	8016.5	8089.2	8054.7	8495.0	9700.9	11228.4	10922.1	10772.8	8931.4
30°	8518.0	8556.2	8506.5	8506.5	8403.1	8831.9	10007.2	12135.7	12009.4	11806.5	9494.2
32.5°	9203.2	9260.7	9161.1	9103.7	9088.4	9333.4	10558.4	13031.5	13245.9	13073.6	10240.7
35°	10110.5	10076.1	9957.4	9903.8	9697.1	10102.9	11377.7	14061.3	14624.1	14317.8	11144.2
37.5°	10910.7	10857.1	10849.4	10550.8	10600.6	10933.6	12074.5	14842.3	15960.2	15872.1	12097.4
40°	11657.2	11706.9	11787.3	11618.9	11542.3	11909.8	12886.1	15439.5	16997.6	16963.2	12832.5
42.5°	12457.3	12411.3	12553.0	12411.3	12296.5	12817.1	13766.6	15853.0	17908.8	17625.5	13601.9
45°	13617.3	13471.8	13521.6	13533.0	13448.8	13640.2	14130.3	16151.6	18548.1	18517.5	14164.7
47.5°	14585.8	14589.6	14505.4	14440.3	14183.8	14375.3	14536.1	16339.2	19283.1	19233.4	14382.9
50°	14945.7	14895.9	15140.9	15282.6	15297.9	14907.4	14853.8	16442.5	19669.8	19451.6	14601.1
52.5°	13651.7	13697.7	14084.3	14926.5	15412.7	15454.8	15225.1	16656.9	19826.8	19780.8	14777.2
55°	10987.2	11209.3	11844.8	12817.1	13969.5	15236.6	15627.1	16879.0	19911.0	19872.7	15558.2
56°	9658.8	9831.1	10658.0	11419.8	12866.9	14444.2	15374.4	17116.3	19976.1	20156.0	15742.0
57.5°	7775.3	7974.3	8567.7	9432.9	11140.3	12935.8	14677.7	16825.4	19723.4	19792.3	15876.0
60°	4861.9	4881.1	5593.1	6163.6	7365.6	9119.0	11201.6	14639.4	18253.3	18153.8	14260.4
62.5°	3189.0	3192.8	3839.8	4306.8	4854.3	5256.3	6592.3	9708.6	13468.0	13291.9	10152.6
65°	2239.6	2289.3	2790.8	3414.8	3636.9	3426.3	3384.2	5118.4	7522.6	7269.9	5455.3
67.5°	1638.5	1642.3	2086.4	2756.4	3078.0	2607.1	2117.0	2499.9	2978.4	2970.8	2526.7
70°	1083.4	1129.3	1470.1	2059.6	2427.1	2094.1	1730.4	1787.8	1895.0	1895.0	1879.7
72.5°	631.7	673.8	899.7	1305.4	1362.9	1309.3	1370.5	1531.3	1600.2	1596.4	1577.3
75°	359.9	379.0	428.8	543.6	677.6	800.1	1006.8	1160.0	1228.9	1271.0	1221.2
77.5°	210.6	222.0	252.7	310.1	352.2	432.6	547.4	654.6	746.5	735.0	742.7
80°	111.0	111.0	141.6	183.8	245.0	306.3	363.7	424.9	474.7	486.2	497.7
82.5°	65.1	68.9	91.9	134.0	176.1	218.2	279.5	321.6	367.5	371.3	379.0
85°	34.5	38.3	57.4	88.1	118.7	134.0	137.8	130.2	141.6	134.0	153.1
87.5°	11.5	11.5	19.1	15.3	15.3	19.1	23.0	23.0	30.6	30.6	30.6
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°	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6	5650.6
2.5°	5681.2	5681.2	5616.1	5493.6	5474.5	5424.7	5378.8	5374.9	5340.5	5309.9	5294.5
5°	5788.4	5669.7	5574.0	5463.0	5332.8	5271.6	5202.7	5126.1	5095.5	5126.1	5122.3
7.5°	5910.9	5811.4	5524.2	5317.5	5168.2	5107.0	5030.4	4950.0	4957.6	4957.6	4904.1
10°	6029.6	5895.6	5436.2	5172.0	4953.8	4907.9	4865.8	4896.4	4934.7	4942.3	4907.9
12.5°	6228.6	5926.2	5394.1	5026.6	4888.7	4789.2	4816.0	4900.2	4980.6	4957.6	4984.4
15°	6377.9	5953.0	5202.7	4877.3	4705.0	4750.9	4846.6	4904.1	5038.0	5022.7	5049.5
17.5°	6523.4	5968.3	5015.1	4678.2	4605.4	4731.8	4804.5	4969.1	5011.2	5103.1	5137.6
20°	6822.0	5998.9	4823.7	4555.7	4532.7	4678.2	4804.5	4881.1	4973.0	5053.4	5053.4
22.5°	6975.2	5983.6	4697.3	4394.9	4467.6	4559.5	4674.4	4804.5	4804.5	4881.1	4884.9
25°	7166.6	5922.4	4498.3	4318.3	4371.9	4460.0	4590.1	4544.2	4594.0	4594.0	4655.2
27.5°	7384.8	5792.2	4326.0	4180.5	4287.7	4383.4	4402.5	4371.9	4314.5	4306.8	4283.9
30°	7560.9	5631.4	4199.6	4134.6	4222.6	4276.2	4215.0	4149.9	4050.3	4042.7	3989.1
32.5°	7802.1	5432.4	4042.7	4019.7	4119.2	4123.1	4103.9	4004.4	3858.9	3797.7	3736.4
35°	8207.9	5317.5	3924.0	3958.5	3989.1	3977.6	3943.1	3836.0	3690.5	3663.7	3640.7
37.5°	8506.5	5233.3	3801.5	3843.6	3870.4	3885.7	3782.4	3663.7	3667.5	3613.9	3598.6
40°	8843.4	5179.7	3702.0	3721.1	3724.9	3774.7	3648.4	3590.9	3617.7	3583.3	3606.3
42.5°	9276.0	5195.0	3598.6	3583.3	3656.0	3636.9	3575.6	3499.1	3514.4	3411.0	3426.3
45°	9505.7	5298.4	3537.3	3468.4	3548.8	3545.0	3464.6	3391.9	3300.0	3100.9	3108.6
47.5°	9658.8	5325.2	3391.9	3345.9	3430.2	3479.9	3388.0	3219.6	3089.4	2947.8	2913.3
50°	9815.8	5374.9	3323.0	3227.3	3261.7	3380.4	3265.5	3104.8	2978.4	2852.1	2871.2
52.5°	9953.6	5470.6	3189.0	3047.3	3108.6	3238.7	3177.5	2982.2	2844.4	2741.1	2710.4
55°	10566.1	5685.0	2963.1	2779.3	2924.8	3089.4	3055.0	2817.6	2668.3	2614.7	2607.1
56°	10661.8	5692.7	2844.4	2687.5	2821.5	3039.7	2997.6	2744.9	2610.9	2526.7	2530.5
57.5°	10677.1	5600.8	2676.0	2603.2	2718.1	2966.9	2913.3	2687.5	2503.7	2427.1	2404.2
60°	9394.6	4371.9	2465.4	2419.5	2553.5	2744.9	2725.7	2530.5	2323.8	2235.7	2277.8
62.5°	6404.7	3204.3	2300.8	2293.2	2362.1	2549.6	2499.9	2323.8	2151.5	2094.1	2067.3
65°	3728.8	2431.0	2140.0	2109.4	2166.8	2266.4	2300.8	2117.0	1937.1	1898.8	1887.4
67.5°	2201.3	2009.9	1933.3	1883.5	1864.4	1925.6	1952.4	1845.2	1665.3	1611.7	1657.7
70°	1841.4	1787.8	1791.6	1707.4	1661.5	1619.4	1596.4	1500.7	1351.4	1282.5	1263.3
72.5°	1588.7	1565.8	1550.5	1473.9	1431.8	1336.1	1236.5	1140.8	1029.8	972.4	976.2
75°	1213.6	1205.9	1213.6	1175.3	1102.6	1026.0	934.1	811.6	727.4	654.6	670.0
77.5°	723.5	746.5	758.0	742.7	712.1	643.2	585.7	505.3	424.9	367.5	359.9
80°	497.7	516.8	536.0	516.8	486.2	436.4	375.2	313.9	256.5	225.9	218.2
82.5°	379.0	398.1	409.6	390.5	352.2	298.6	256.5	214.4	168.4	137.8	130.2
85°	137.8	157.0	153.1	183.8	199.1	191.4	164.6	126.3	95.7	68.9	65.1
87.5°	38.3	34.5	38.3	38.3	38.3	34.5	30.6	30.6	30.6	19.1	15.3
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)