

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: P528428

Luminaire Tested: **GALN-SA3C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16686 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

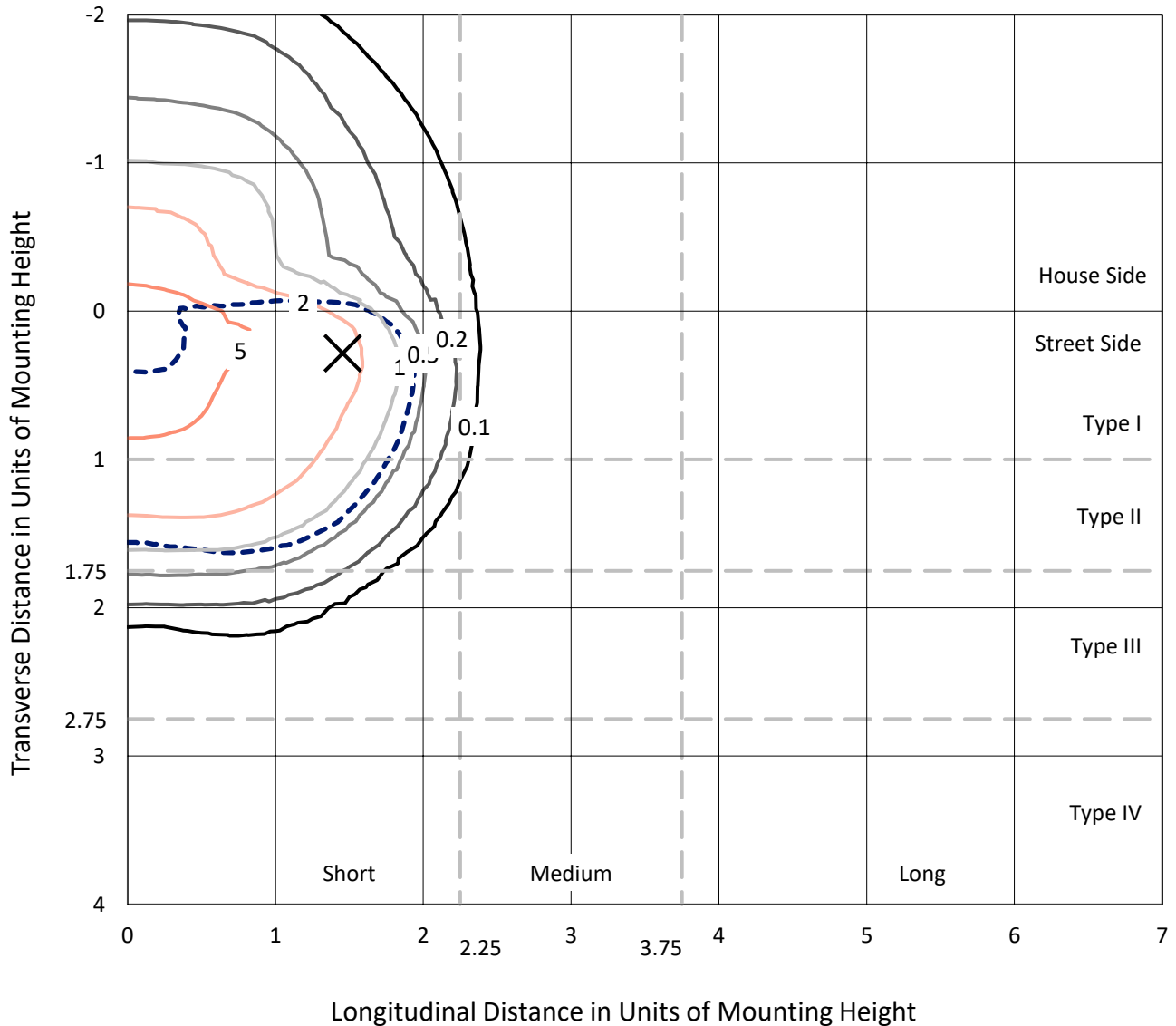
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

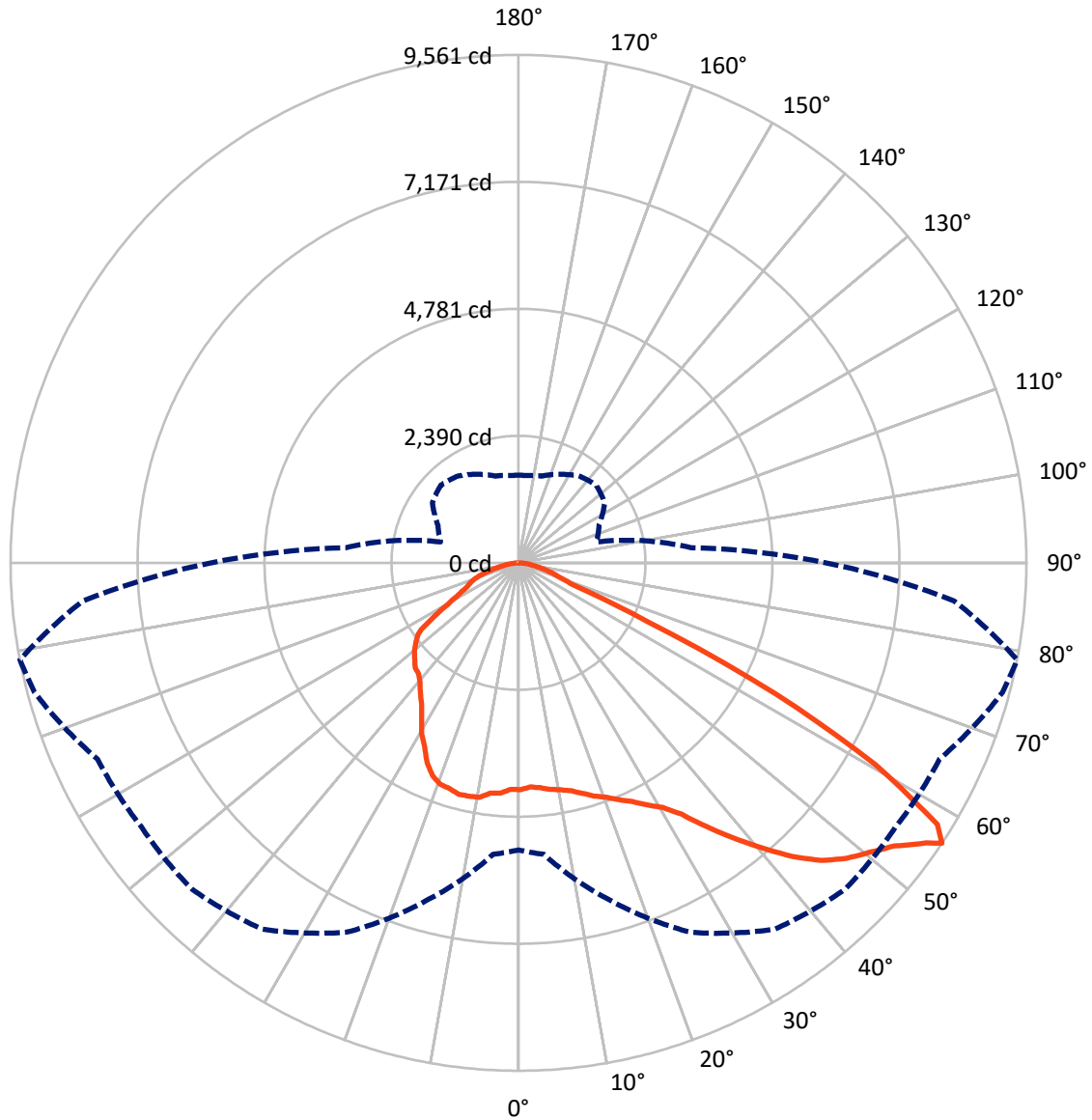
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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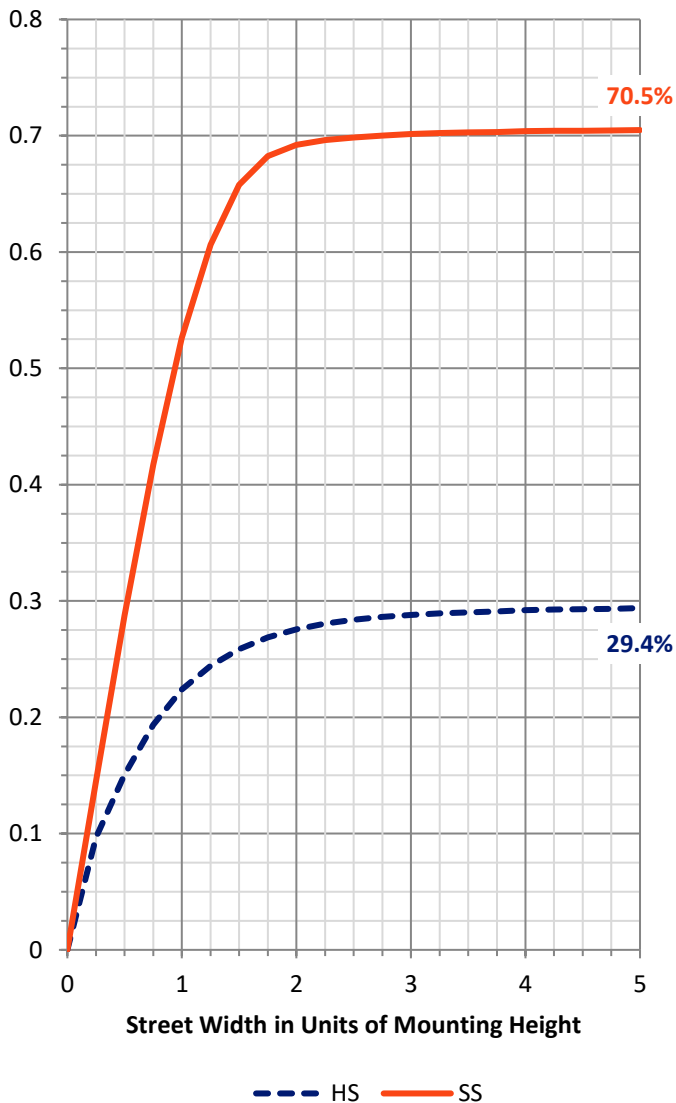
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4927.7	0.0	4927.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11758.3	0.0	11758.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	16686.0	0.0	16686.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.2	2.3
10°-20°	1062.3	6.4
20°-30°	1817.4	10.9
30°-40°	2785.3	16.7
40°-50°	3764.4	22.6
50°-60°	4323.5	25.9
60°-70°	1970.8	11.8
70°-80°	485.9	2.9
80°-90°	88.3	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°	16686.0	100.0
0°-180°	16686.0	100.0

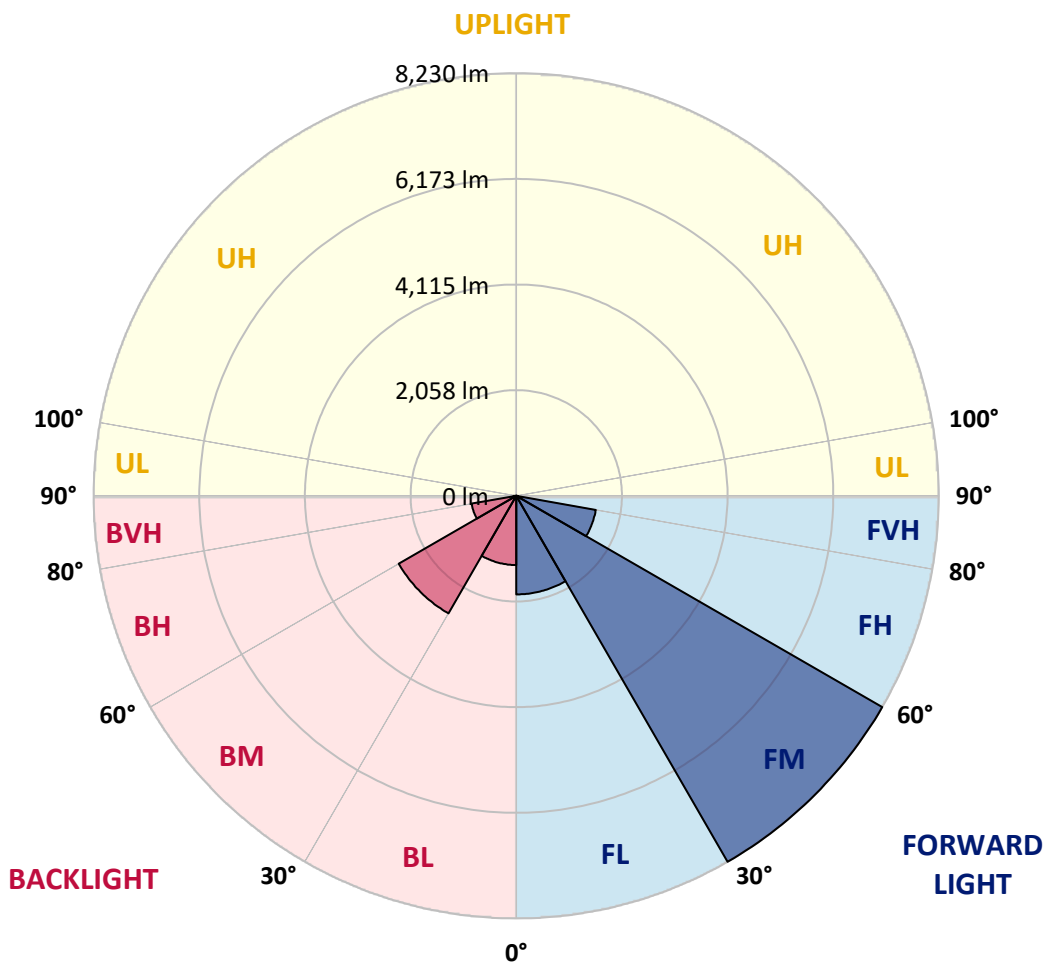


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.9	11.5			
FM (30°-60°)	8230.0	49.3			
FH (60°-80°)	1573.1	9.4			G1/1800
FVH (80°-90°)	35.3	0.2			G1/100
BL (0°-30°)	1347.9	8.1	B3/2500		
BM (30°-60°)	2643.2	15.8	B3/5000		
BH (60°-80°)	883.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3
2.5°	4061.4	4051.0	4076.0	4094.7	4117.6	4146.7	4161.2	4169.5	4242.3	4223.6	4279.7
5°	3974.1	3947.1	3965.8	3980.4	4019.9	4055.2	4094.7	4157.0	4223.6	4252.7	4321.2
7.5°	3897.2	3882.7	3878.5	3888.9	3943.0	3988.7	4057.3	4148.7	4256.8	4304.6	4344.1
10°	3770.4	3749.7	3780.8	3849.4	3864.0	3959.6	4038.6	4169.5	4263.1	4346.2	4462.6
12.5°	3714.3	3693.5	3699.8	3739.3	3841.1	3932.6	4026.1	4173.7	4371.1	4404.4	4560.3
15°	3803.7	3782.9	3789.1	3778.8	3876.4	3924.3	4071.8	4256.8	4446.0	4502.1	4668.4
17.5°	4007.4	4009.5	3982.5	3959.6	3936.7	4038.6	4140.4	4306.7	4475.1	4616.4	4741.1
20°	4396.1	4327.5	4273.4	4144.6	4109.2	4152.9	4281.8	4441.8	4593.5	4709.9	4851.3
22.5°	4695.4	4701.6	4624.7	4412.7	4335.8	4354.5	4464.7	4595.6	4761.9	4845.0	5007.2
25°	5129.8	5086.1	5003.0	4834.6	4662.1	4676.7	4757.7	4876.2	4921.9	4980.1	5156.8
27.5°	5526.8	5539.3	5375.1	5217.1	5003.0	4961.4	5106.9	5127.7	5050.8	5161.0	5221.3
30°	5930.0	5919.6	5811.6	5626.6	5416.6	5424.9	5489.4	5387.5	5281.5	5341.8	5383.4
32.5°	6347.8	6229.3	6225.2	6058.9	5898.8	5821.9	5743.0	5792.8	5628.6	5641.1	5601.6
35°	6682.5	6699.1	6603.5	6485.0	6406.0	6270.9	6054.7	6144.1	6112.9	6098.4	5927.9
37.5°	6925.6	6861.2	6909.0	6869.5	6794.7	6626.3	6401.9	6487.1	6501.6	6572.3	6374.8
40°	7125.2	7098.2	7224.9	7245.7	7193.8	6830.0	6426.8	6680.4	6898.6	7052.4	6817.6
42.5°	7220.8	7279.0	7412.0	7572.1	7455.7	7067.0	6555.7	6827.9	7314.3	7557.5	7237.4
45°	7349.7	7274.8	7472.3	7765.4	7767.4	7266.5	6680.4	7027.5	7638.6	7991.9	7524.3
47.5°	7218.7	7256.1	7459.8	7831.9	7927.5	7476.4	7017.1	7310.2	7996.1	8309.9	7790.3
50°	6925.6	7000.5	7372.5	7759.1	8048.0	7698.8	7403.7	7615.7	8326.6	8565.6	7834.0
52.5°	6620.1	6661.7	7243.7	7815.2	8102.1	7985.7	7921.3	8037.6	8729.8	8854.5	7888.0
55°	5788.7	5986.1	6817.6	7790.3	8366.1	8503.2	8453.4	8623.8	9187.1	9311.8	8183.1
56°	5404.2	5508.1	6561.9	7673.9	8418.0	8692.4	8667.4	8744.3	9430.3	9561.2	8228.9
57.5°	4693.3	4701.6	5595.4	7158.4	8222.6	8748.5	8723.6	8783.8	9382.5	9293.1	7827.7
60°	2937.0	3065.8	3807.9	5506.0	6992.2	8116.6	8258.0	7773.7	7910.9	7721.7	6090.1
62.5°	1521.5	1502.8	1995.4	3219.6	4641.3	5811.6	5942.5	5919.6	5707.6	5431.2	3978.3
65°	758.7	762.8	1043.4	1594.2	2377.8	3043.0	3408.8	3448.3	2885.0	2654.3	1887.3
67.5°	550.8	571.6	750.3	974.8	1120.3	1253.3	1536.0	1506.9	1141.1	1085.0	1006.0
70°	428.2	446.9	609.0	744.1	675.5	675.5	735.8	760.7	812.7	835.6	862.6
72.5°	311.8	326.3	465.6	513.4	442.7	476.0	550.8	609.0	663.0	671.4	702.5
75°	214.1	226.6	305.5	282.7	266.1	328.4	403.2	457.3	496.8	517.6	536.3
77.5°	139.3	143.4	174.6	147.6	170.4	212.0	261.9	307.6	347.1	363.7	367.9
80°	62.4	68.6	74.8	93.5	118.5	151.7	187.1	224.5	249.4	255.7	268.1
82.5°	35.3	35.3	45.7	66.5	87.3	110.2	135.1	162.1	191.2	197.5	195.4
85°	18.7	18.7	27.0	39.5	54.0	64.4	62.4	64.4	68.6	79.0	76.9
87.5°	6.2	6.2	8.3	8.3	10.4	12.5	10.4	14.5	18.7	18.7	18.7
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°	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3	4269.3
2.5°	4263.1	4281.8	4256.8	4310.9	4310.9	4300.5	4248.5	4265.1	4277.6	4277.6	4288.0
5°	4344.1	4337.9	4354.5	4290.1	4250.6	4236.0	4150.8	4109.2	4073.9	4071.8	4040.6
7.5°	4389.8	4373.2	4367.0	4319.2	4144.6	4038.6	3855.7	3749.7	3726.8	3645.7	3676.9
10°	4462.6	4493.8	4462.6	4202.8	3959.6	3716.4	3537.6	3373.4	3309.0	3257.0	3225.9
12.5°	4612.2	4597.7	4416.9	4065.6	3724.7	3435.8	3169.7	2997.2	2932.8	2887.1	2882.9
15°	4739.0	4666.3	4389.8	3849.4	3358.9	3051.3	2833.0	2710.4	2681.3	2685.5	2704.2
17.5°	4782.7	4732.8	4248.5	3624.9	3086.6	2724.9	2623.1	2604.4	2631.4	2662.6	2670.9
20°	4851.3	4772.3	4190.3	3319.4	2749.9	2521.2	2515.0	2581.5	2631.4	2677.1	2683.4
22.5°	4994.7	4795.2	4001.2	3030.5	2519.2	2461.0	2521.2	2577.4	2654.3	2691.7	2658.4
25°	5036.3	4745.3	3735.1	2683.4	2373.7	2423.6	2488.0	2564.9	2618.9	2639.7	2654.3
27.5°	5071.6	4668.4	3375.5	2452.7	2327.9	2421.5	2488.0	2552.4	2581.5	2600.2	2616.9
30°	5171.4	4645.5	3063.7	2298.8	2298.8	2379.9	2465.1	2481.8	2521.2	2544.1	2573.2
32.5°	5221.3	4487.5	2743.7	2201.2	2269.7	2400.7	2406.9	2438.1	2440.2	2458.9	2427.7
35°	5352.2	4375.3	2446.4	2130.5	2282.2	2379.9	2411.1	2392.4	2290.5	2240.6	2251.0
37.5°	5447.8	4319.2	2232.3	2122.2	2284.3	2402.8	2419.4	2278.1	2172.1	2088.9	2109.7
40°	5705.5	4179.9	2070.2	2107.6	2303.0	2427.7	2382.0	2228.2	2037.0	1951.7	1937.2
42.5°	5903.0	4080.1	1968.4	2091.0	2317.6	2463.0	2363.3	2128.4	1933.0	1854.0	1874.8
45°	6131.6	4057.3	1914.3	2095.2	2342.5	2481.8	2340.4	2051.5	1843.7	1812.5	1806.2
47.5°	6212.7	3893.1	1856.1	2059.8	2336.3	2475.5	2263.5	1993.3	1810.4	1814.6	1831.2
50°	6077.6	3724.7	1812.5	1987.1	2294.7	2419.4	2143.0	1916.4	1791.7	1843.7	1872.7
52.5°	5905.1	3552.2	1723.1	1889.4	2209.5	2332.1	2086.8	1912.2	1773.0	1756.4	1762.6
55°	5957.0	3410.9	1598.4	1756.4	2072.3	2170.0	2024.5	1872.7	1727.3	1664.9	1685.7
56°	5788.7	3265.4	1517.3	1673.2	1978.8	2066.1	1993.3	1837.4	1689.8	1648.3	1648.3
57.5°	5312.7	2776.9	1411.3	1540.2	1781.3	1885.2	1933.0	1816.6	1648.3	1575.5	1577.6
60°	3918.0	1974.6	1265.8	1357.3	1475.8	1558.9	1781.3	1758.4	1544.3	1494.5	1475.8
62.5°	2415.2	1442.5	1161.9	1197.2	1257.5	1326.1	1554.7	1592.1	1434.2	1380.1	1367.7
65°	1353.1	1103.7	1082.9	1097.5	1126.6	1161.9	1290.8	1373.9	1265.8	1182.7	1178.5
67.5°	989.4	987.3	1003.9	1016.4	1028.9	1028.9	1060.0	1093.3	1078.8	1012.2	1006.0
70°	879.2	885.5	897.9	900.0	904.2	889.6	864.7	854.3	870.9	829.3	821.0
72.5°	725.4	746.2	760.7	762.8	740.0	721.2	688.0	652.7	640.2	631.9	629.8
75°	557.0	571.6	577.8	575.8	567.4	540.4	500.9	465.6	442.7	417.8	430.3
77.5°	376.2	397.0	407.4	407.4	394.9	353.3	334.6	307.6	284.8	257.7	261.9
80°	264.0	278.5	295.2	293.1	272.3	251.5	224.5	199.5	180.8	160.0	158.0
82.5°	197.5	205.8	214.1	209.9	195.4	174.6	155.9	133.0	112.2	97.7	97.7
85°	70.7	76.9	93.5	97.7	106.0	106.0	89.4	74.8	60.3	49.9	49.9
87.5°	20.8	20.8	22.9	22.9	20.8	22.9	18.7	20.8	22.9	14.5	14.5
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)