

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: P650822

Luminaire Tested: **GALN-SA3C-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18062.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

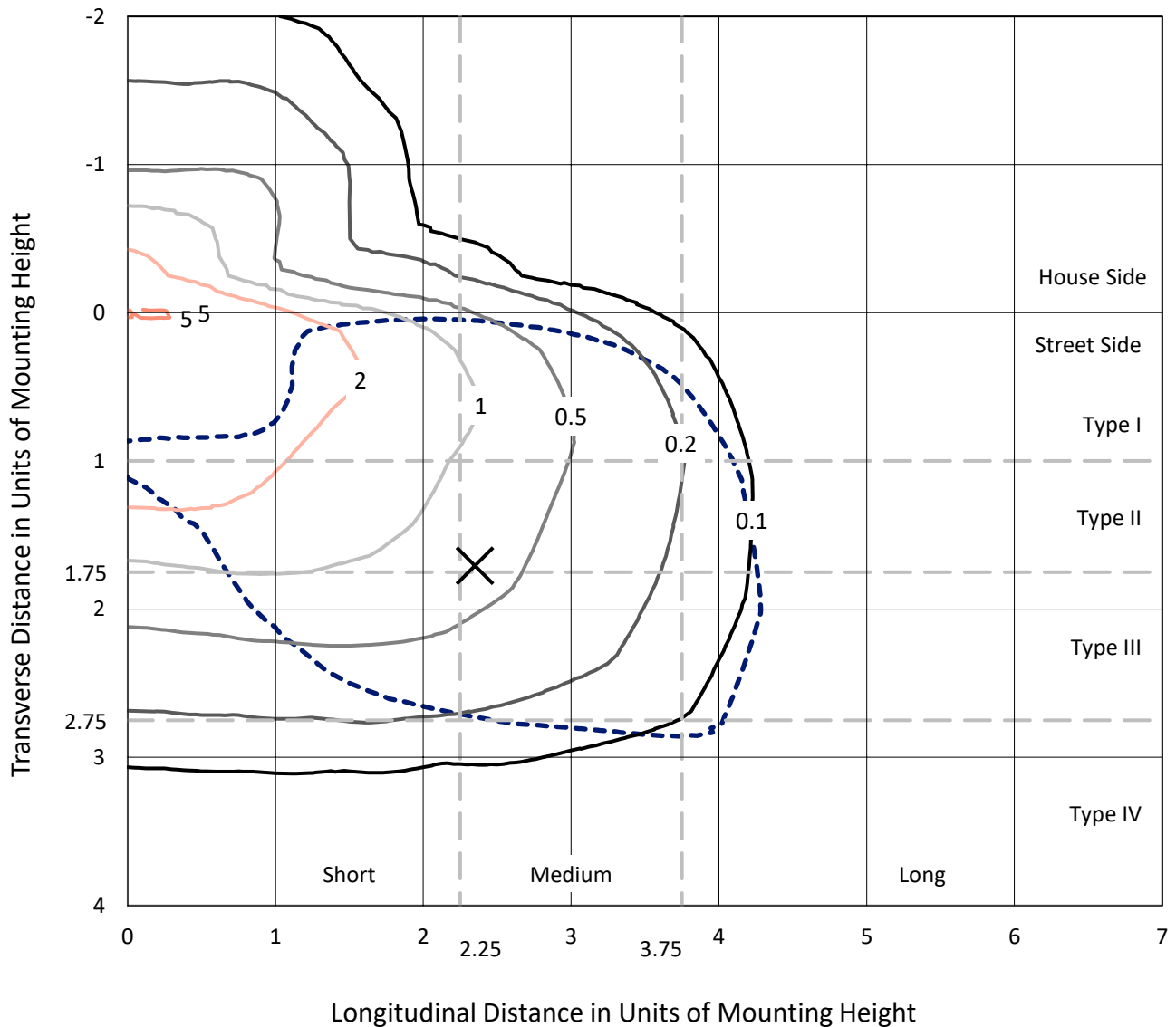
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

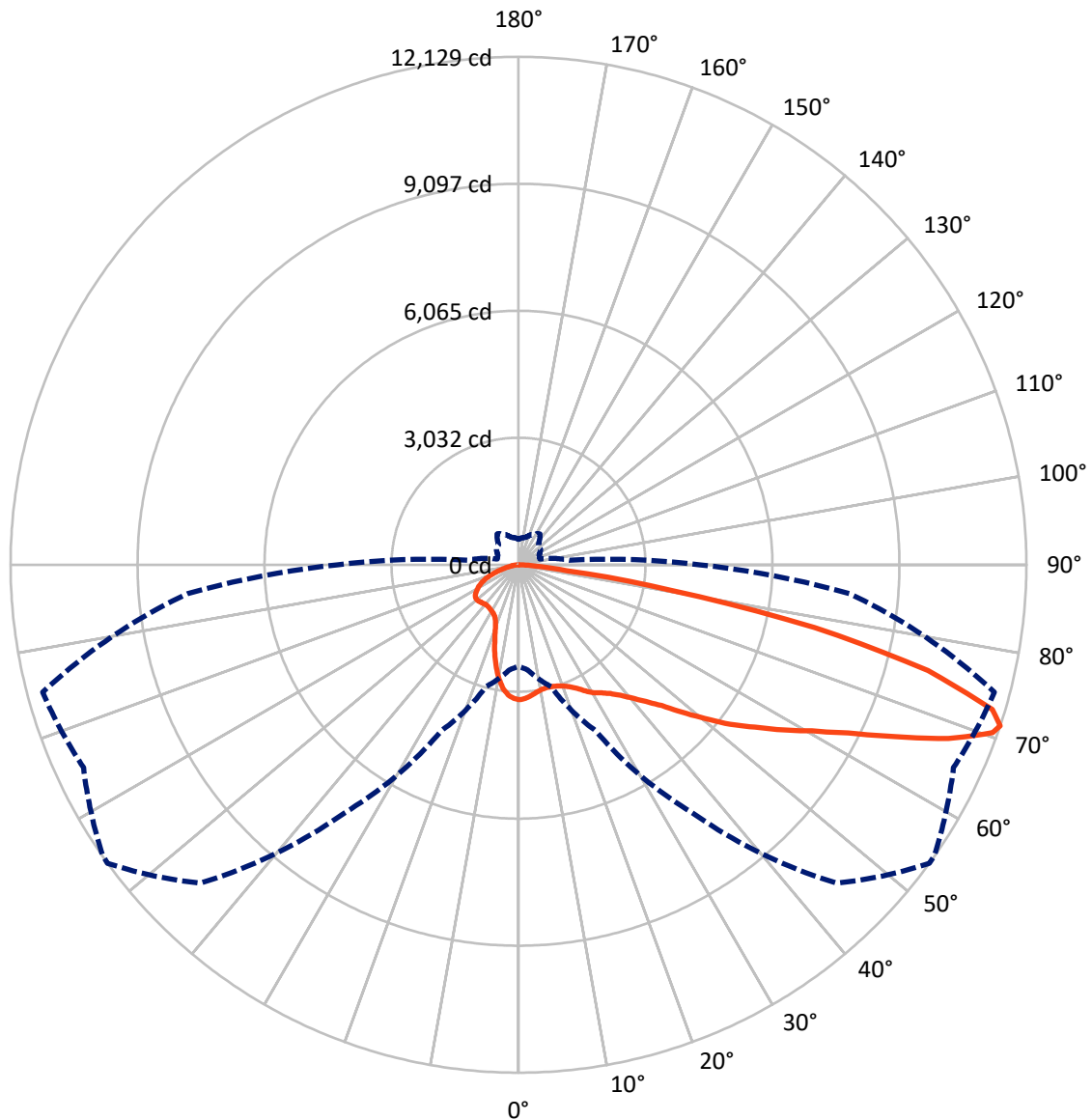
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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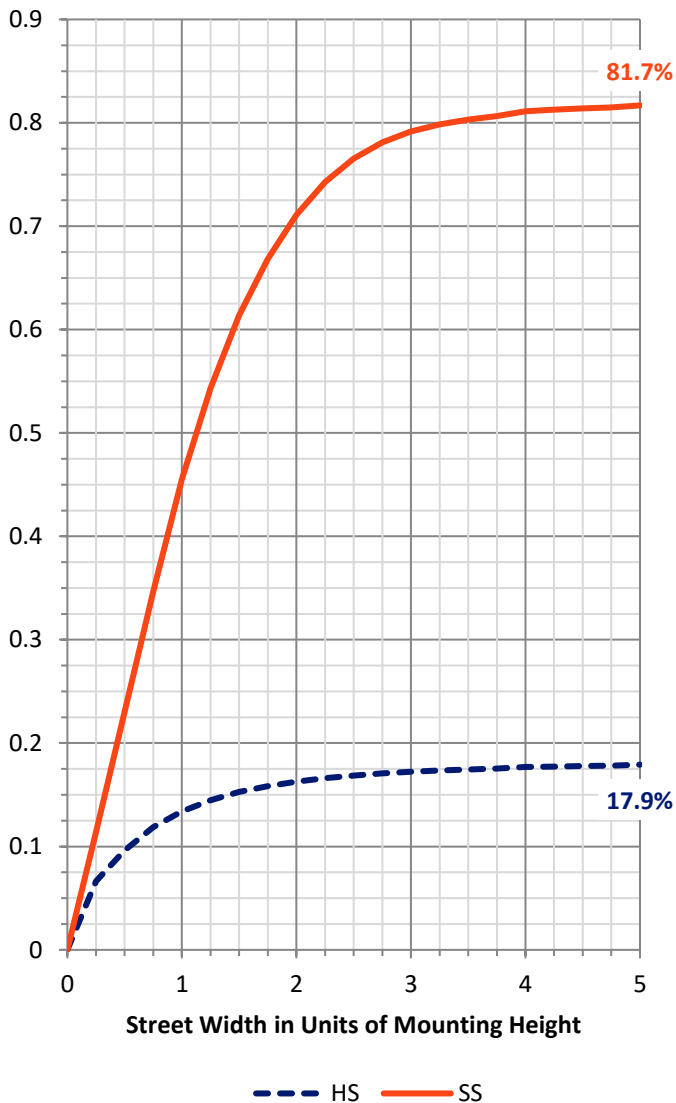
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3261.0	0.0	3261.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14801.1	0.0	14801.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	18062.2	0.0	18062.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	1.6
10°-20°	758.3	4.2
20°-30°	1262.6	7.0
30°-40°	1867.0	10.3
40°-50°	2629.7	14.6
50°-60°	3521.3	19.5
60°-70°	4438.3	24.6
70°-80°	3031.3	16.8
80°-90°	266.6	1.5
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°	18062.2	100.0
0°-180°	18062.2	100.0



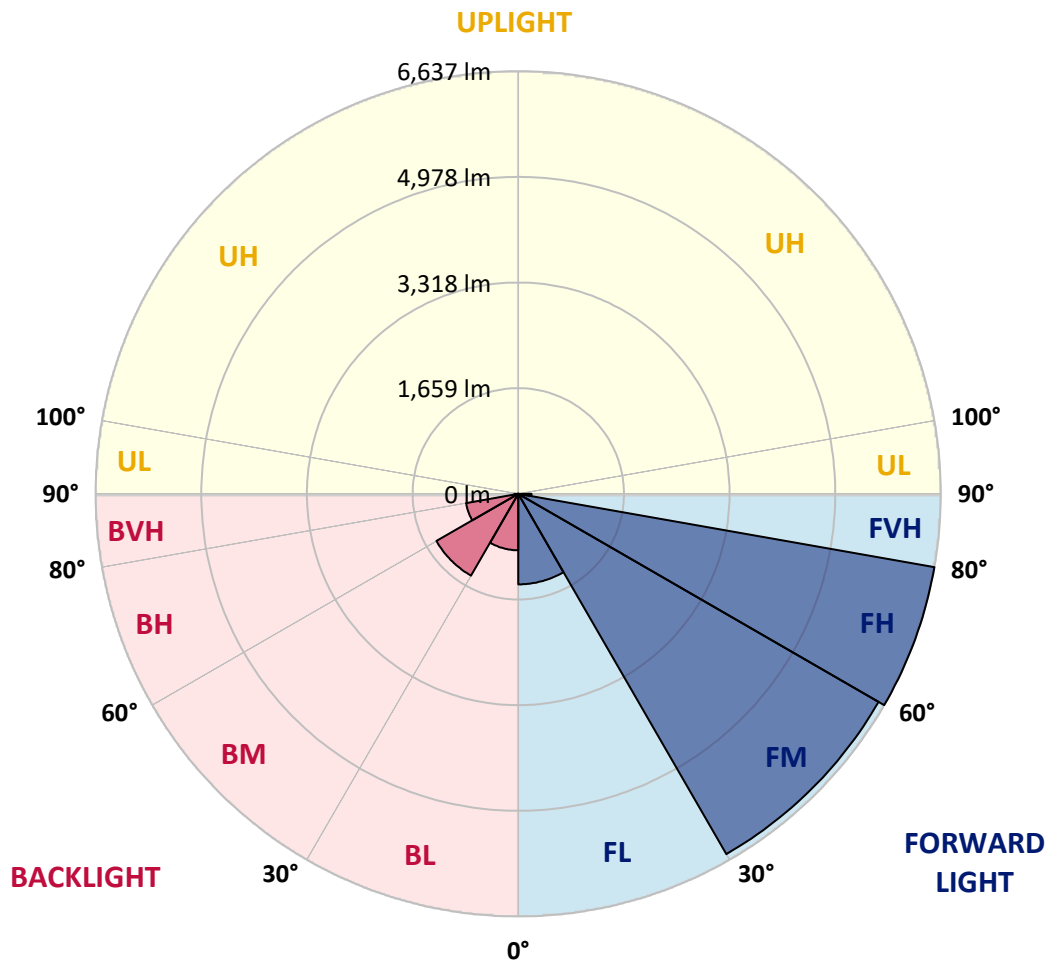
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.8	7.9			
FM (30°-60°)	6534.2	36.2			
FH (60°-80°)	6636.7	36.7			G3/7500
FVH (80°-90°)	208.4	1.2			G2/225
BL (0°-30°)	886.3	4.9	B2/1000		
BM (30°-60°)	1483.7	8.2	B2/2500		
BH (60°-80°)	832.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	58.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5
2.5°	3113.3	3127.9	3131.8	3141.6	3162.1	3178.6	3195.2	3193.3	3216.7	3226.5	3235.2
5°	2974.7	2978.7	2993.3	3012.8	3048.9	3094.7	3139.6	3140.6	3198.2	3244.0	3266.4
7.5°	2873.3	2886.0	2895.7	2916.2	2954.3	3004.1	3075.2	3081.1	3183.5	3274.3	3322.0
10°	2806.9	2821.6	2832.3	2857.6	2895.7	2951.3	3028.4	3039.1	3172.8	3322.0	3406.0
12.5°	2746.5	2761.1	2770.8	2804.0	2853.8	2922.1	3008.9	3021.5	3176.7	3377.7	3497.7
15°	2783.5	2795.2	2791.4	2801.1	2834.3	2912.3	3016.7	3029.4	3191.3	3431.4	3588.5
17.5°	2948.4	2958.1	2925.9	2888.9	2873.3	2930.8	3041.1	3054.8	3220.6	3487.0	3681.1
20°	3191.3	3217.7	3147.4	3064.5	2989.4	2997.2	3091.9	3106.5	3261.6	3542.5	3775.8
22.5°	3507.5	3527.0	3441.1	3304.5	3165.9	3094.7	3167.9	3176.7	3323.0	3614.8	3879.2
25°	3879.2	3890.9	3771.9	3596.2	3396.2	3261.6	3272.3	3287.9	3424.6	3696.7	3970.9
27.5°	4240.2	4277.2	4139.7	3925.0	3661.6	3437.2	3415.7	3425.5	3534.7	3742.5	4034.3
30°	4668.5	4665.5	4520.1	4271.4	3933.8	3628.4	3551.4	3549.4	3594.3	3765.0	4080.1
32.5°	5009.9	5050.0	4907.5	4636.3	4245.0	3826.5	3645.0	3641.1	3640.1	3804.0	4148.5
35°	5398.2	5404.1	5273.3	5000.2	4581.6	4075.2	3775.8	3756.2	3733.8	3887.9	4241.2
37.5°	5745.5	5772.9	5652.9	5346.6	4912.4	4333.8	3955.3	3942.6	3874.3	4033.4	4389.4
40°	6016.8	6037.3	5965.1	5673.4	5238.3	4612.9	4183.6	4160.2	4077.3	4271.4	4587.5
42.5°	6105.6	6147.5	6175.8	6032.4	5612.9	4943.6	4464.5	4435.3	4371.9	4632.4	4815.8
45°	6112.4	6178.7	6328.0	6334.8	5989.5	5339.7	4792.4	4771.9	4767.0	5094.8	5136.7
47.5°	6060.7	6128.0	6378.7	6514.4	6325.1	5739.7	5265.6	5233.4	5236.3	5666.6	5496.8
50°	5935.9	6015.8	6320.2	6629.5	6587.6	6155.4	5765.1	5754.4	5814.8	6319.3	5870.4
52.5°	5700.7	5797.3	6259.7	6701.7	6782.7	6513.4	6332.9	6302.7	6455.9	7027.6	6279.2
55°	5050.0	5195.3	6038.3	6741.7	6968.0	6855.8	6844.1	6898.8	7101.7	7800.3	6729.0
57.5°	4710.4	4819.7	5557.2	6748.5	7202.2	7254.0	7441.3	7454.9	7810.0	8620.8	7237.3
60°	4525.1	4621.6	5293.8	6703.7	7529.1	7746.6	8052.0	8100.8	8501.8	9509.6	7764.2
62.5°	4363.1	4446.0	5135.8	6548.5	7897.8	8477.4	8843.3	8866.7	9287.2	10491.1	8284.2
65°	3981.6	4076.2	4817.8	6393.4	8215.9	9390.6	9893.0	9865.7	10123.3	11337.9	8610.1
67.5°	3467.4	3587.5	4223.6	5857.7	8373.0	10388.7	11075.5	11041.4	10948.7	11893.1	8703.8
70°	2810.9	2875.2	3463.6	4931.9	7745.6	10912.6	12009.2	11973.1	11460.0	11966.3	8260.8
71°	2418.6	2519.1	3015.7	4380.7	7223.7	10752.6	12129.2	12119.5	11460.9	11764.3	7927.1
72.5°	1887.9	1949.4	2388.4	3394.3	6139.7	9843.3	11832.6	11869.7	11212.1	11203.3	7239.3
75°	1194.2	1221.5	1498.6	1998.1	3368.9	6971.0	10100.8	10201.3	9955.5	9170.1	5383.6
77.5°	693.7	728.8	897.6	1177.6	1455.7	3783.6	7227.6	7336.9	6917.3	5048.9	2204.0
80°	403.9	443.0	591.2	683.9	668.3	1404.0	3680.1	3866.5	2995.2	1275.2	618.6
82.5°	224.4	250.7	415.6	416.6	356.1	458.5	1158.1	1211.7	854.6	514.2	252.7
85°	162.9	184.4	268.3	243.0	170.7	197.0	402.9	422.4	345.4	216.6	81.9
87.5°	57.5	81.9	147.3	117.1	46.8	41.0	116.1	94.6	87.8	60.5	18.5
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°	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5	3222.5
2.5°	3240.1	3242.1	3232.3	3214.7	3197.2	3174.8	3149.4	3129.9	3121.1	3120.1	3119.1
5°	3275.3	3280.2	3243.1	3188.4	3127.9	3053.8	2990.3	2918.2	2899.6	2870.3	2879.2
7.5°	3331.8	3328.9	3255.8	3139.6	2998.2	2841.1	2708.4	2631.3	2551.3	2528.9	2529.8
10°	3412.8	3394.3	3255.8	3040.1	2804.0	2570.9	2385.4	2268.3	2204.9	2152.3	2132.8
12.5°	3498.6	3451.8	3224.5	2900.6	2554.2	2268.3	2069.4	1911.3	1870.3	1827.4	1828.3
15°	3580.6	3502.6	3163.0	2704.5	2285.0	1945.4	1752.2	1657.6	1644.9	1649.8	1648.9
17.5°	3654.7	3538.7	3069.4	2485.9	1970.8	1668.4	1565.9	1572.8	1606.9	1631.3	1634.2
20°	3729.9	3560.1	2929.9	2193.2	1674.2	1500.5	1504.5	1558.1	1609.8	1643.0	1647.9
22.5°	3801.2	3569.9	2766.0	1910.3	1459.6	1429.3	1486.9	1544.4	1595.2	1627.3	1632.2
25°	3847.9	3547.4	2533.8	1614.7	1354.2	1404.0	1464.4	1513.2	1556.2	1589.3	1597.1
27.5°	3860.6	3475.3	2246.0	1375.6	1305.4	1379.6	1435.2	1471.2	1504.5	1535.7	1541.6
30°	3853.8	3368.9	1929.8	1235.2	1277.1	1351.2	1394.2	1420.5	1460.6	1485.0	1489.8
32.5°	3843.0	3245.0	1600.1	1160.1	1253.7	1324.9	1350.3	1373.7	1372.8	1363.0	1369.8
35°	3847.0	3096.7	1332.7	1115.2	1233.2	1305.4	1326.8	1297.6	1213.7	1209.8	1205.9
37.5°	3867.4	2950.3	1138.5	1084.0	1222.5	1302.5	1314.2	1179.6	1105.4	1071.3	1062.5
40°	3920.2	2779.6	1010.8	1060.5	1221.5	1324.9	1256.6	1120.0	977.6	911.2	906.3
42.5°	3990.4	2611.8	932.8	1045.9	1233.2	1359.1	1233.2	1036.1	881.0	842.0	836.1
45°	4094.7	2419.6	889.8	1039.1	1250.7	1371.8	1225.4	974.6	842.0	810.7	810.7
47.5°	4212.8	2236.2	866.4	1034.2	1273.2	1363.0	1156.1	955.1	823.4	827.4	845.9
50°	4329.9	2077.2	848.8	1023.4	1292.7	1358.1	1127.9	954.2	828.3	878.1	911.2
52.5°	4465.5	1964.9	827.4	1005.9	1292.7	1326.8	1119.0	973.7	842.0	856.6	871.3
55°	4629.5	1929.8	800.0	967.8	1269.3	1248.8	1114.2	1002.0	851.8	817.6	823.4
57.5°	4846.0	1986.4	773.7	920.1	1215.7	1167.8	1112.2	1009.8	829.3	801.0	795.2
60°	5097.7	2098.6	765.9	871.3	1142.5	1098.6	1100.5	987.3	798.1	768.8	773.7
62.5°	5274.3	2165.9	761.0	834.2	1062.5	1022.5	1072.3	960.0	784.4	759.1	764.0
65°	5274.3	2084.0	716.1	777.6	959.1	930.7	1038.0	925.9	766.8	737.6	732.7
67.5°	5074.3	1845.0	647.8	692.7	844.9	826.4	990.3	884.9	740.5	718.0	706.4
70°	4553.3	1399.1	562.0	593.2	700.6	717.1	928.8	829.3	696.6	669.3	651.7
71°	4324.1	1218.6	525.9	542.4	644.9	669.3	899.5	805.8	677.1	638.1	606.9
72.5°	3882.1	1026.4	471.2	478.0	551.3	595.2	838.1	761.0	640.0	584.4	549.3
75°	2949.4	749.3	379.5	375.6	407.8	472.2	709.3	678.1	561.0	485.8	465.4
77.5°	1274.2	407.8	283.9	286.9	277.1	358.1	558.1	582.5	481.0	395.1	376.6
80°	386.4	235.1	194.2	198.1	185.4	240.0	393.2	456.6	386.4	307.3	282.0
82.5°	198.1	140.5	132.7	130.8	118.1	135.7	238.1	312.2	276.1	192.2	169.8
85°	85.9	75.1	65.3	63.4	55.6	48.8	84.9	156.1	146.3	107.3	102.4
87.5°	21.4	19.5	12.7	11.7	6.8	1.0	0.0	0.0	0.0	0.0	0.0
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)