

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: P652142

Luminaire Tested: **GALN-SA9A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652142
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-SA9A-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35679.4 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

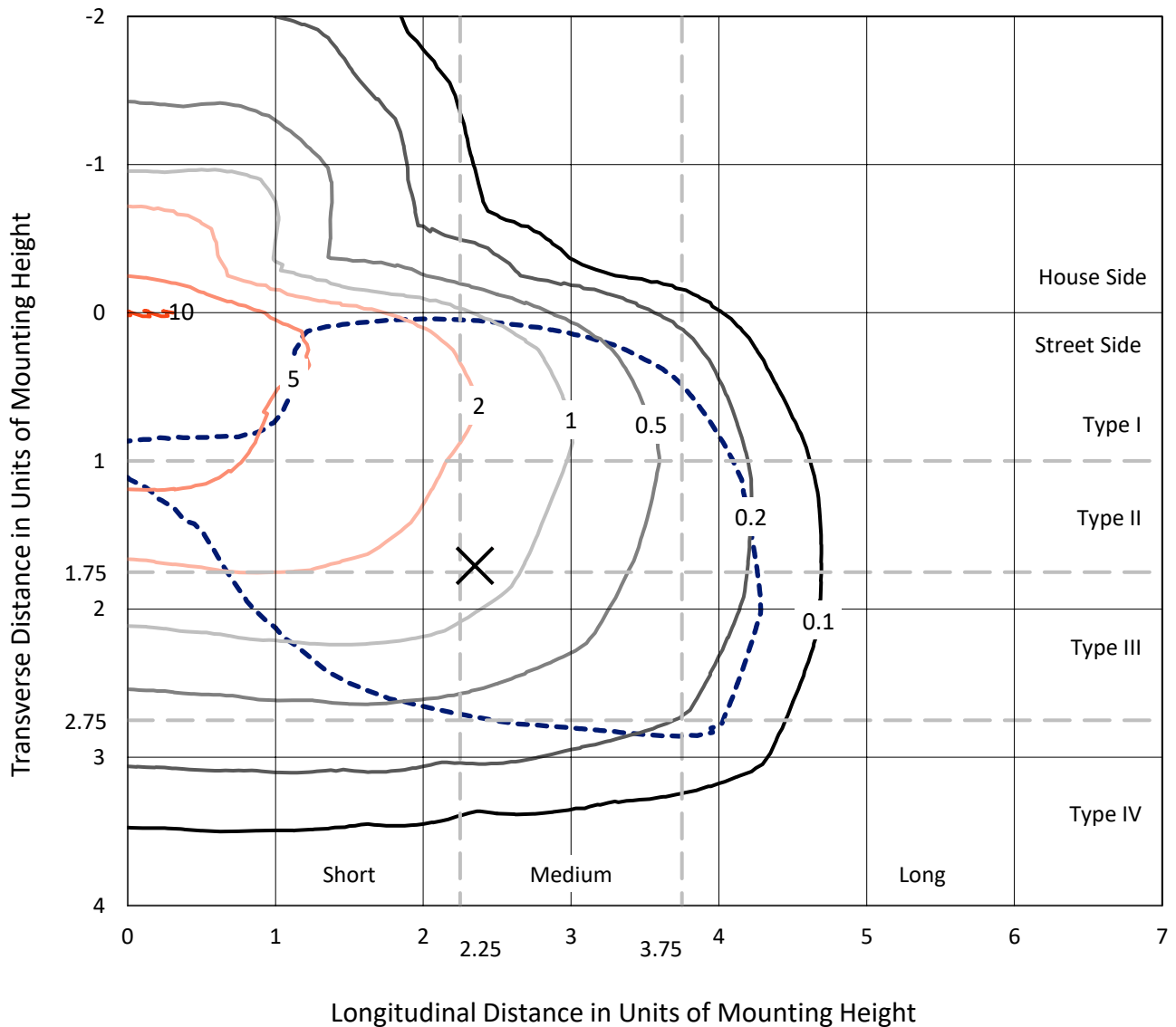
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

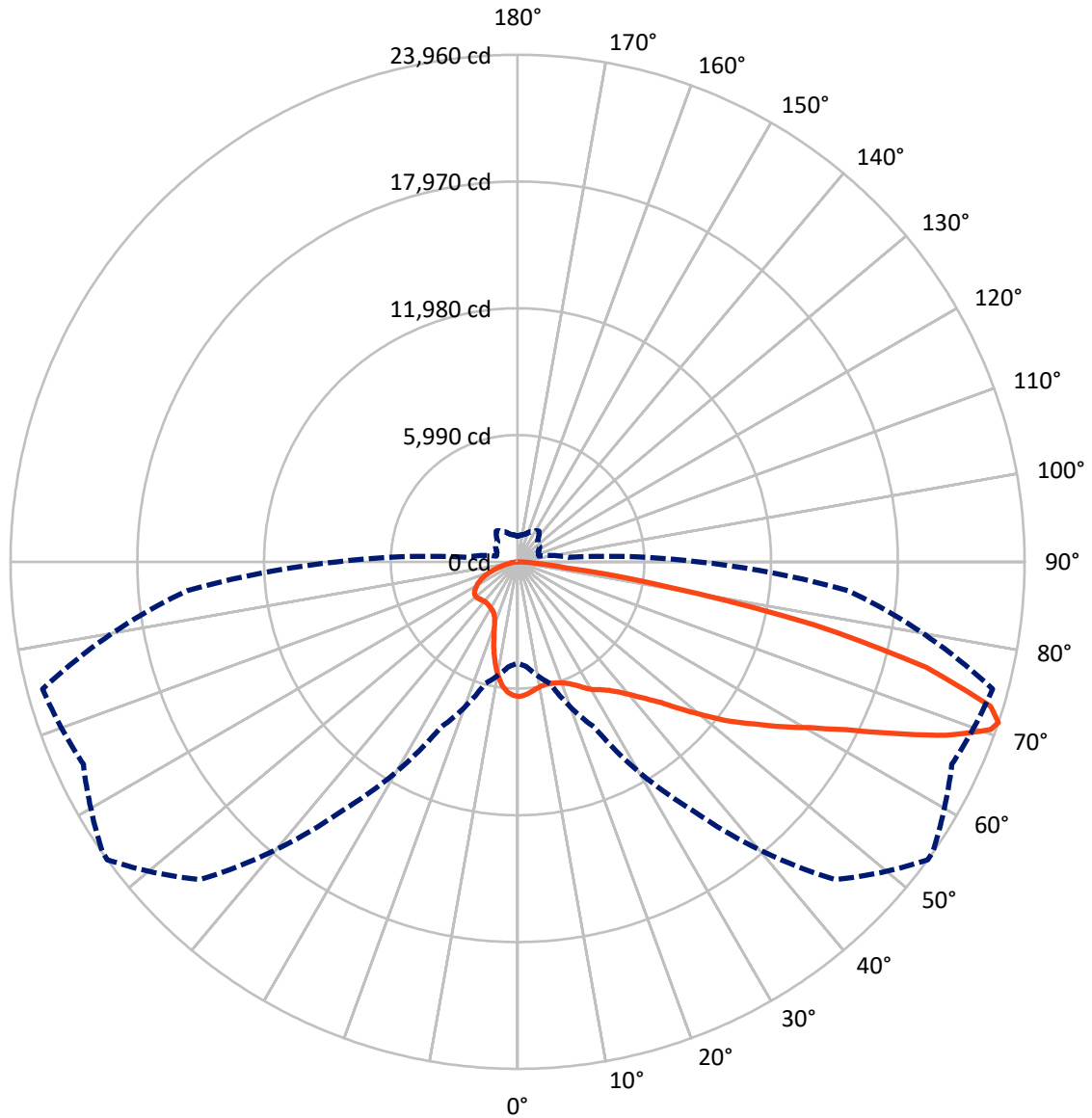
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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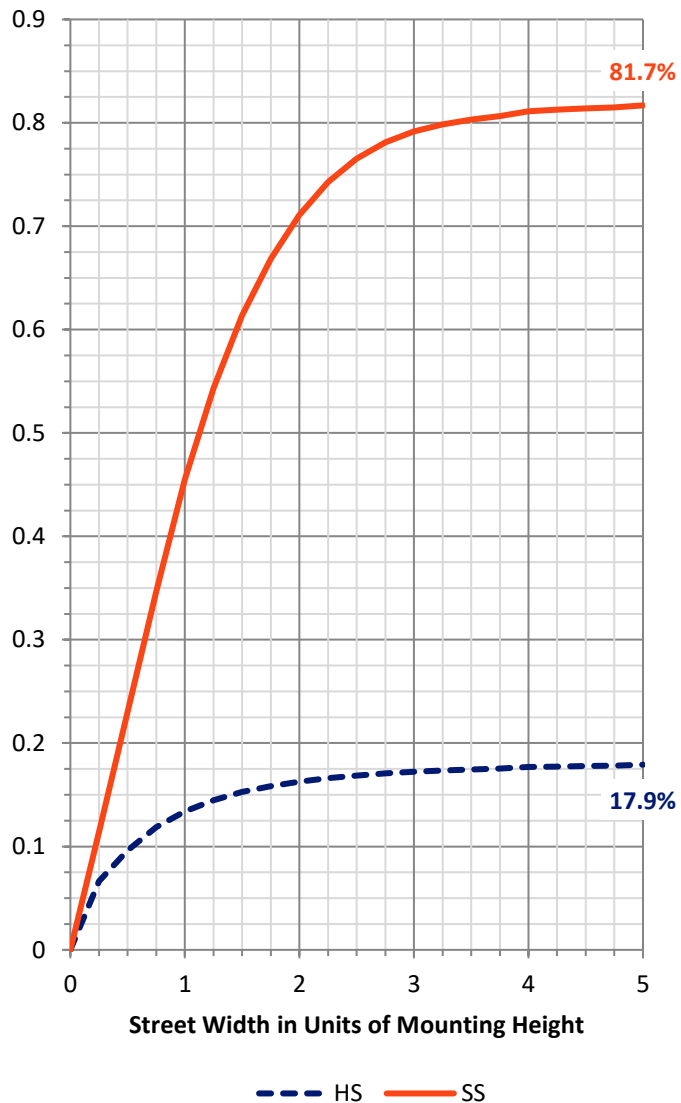
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6441.7	0.0	6441.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29237.7	0.0	29237.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	35679.4	0.0	35679.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.3	1.6
10°-20°	1497.9	4.2
20°-30°	2494.1	7.0
30°-40°	3687.9	10.3
40°-50°	5194.6	14.6
50°-60°	6955.8	19.5
60°-70°	8767.2	24.6
70°-80°	5988.0	16.8
80°-90°	526.6	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°	35679.4	100.0
0°-180°	35679.4	100.0

Coefficient of Utilization

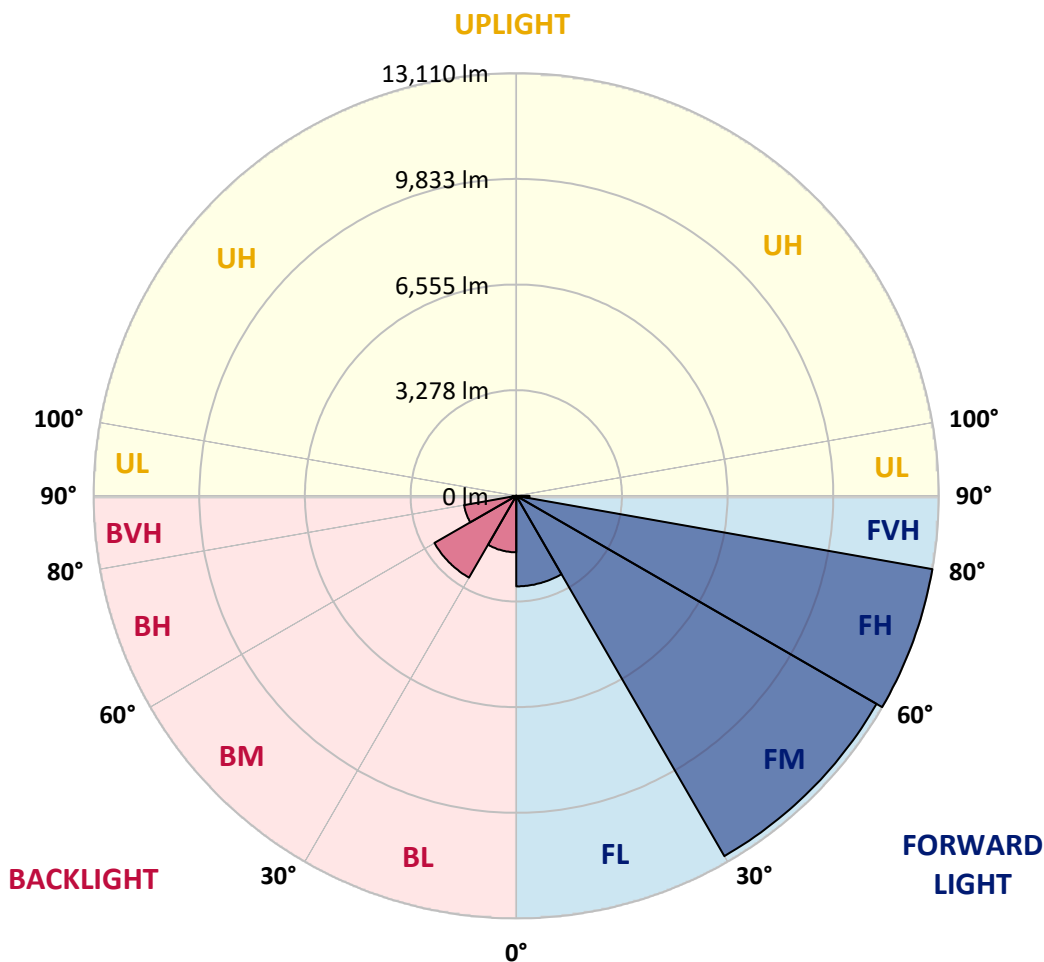


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2808.6	7.9			
FM (30°-60°)	12907.5	36.2			
FH (60°-80°)	13110.0	36.7			G5
FVH (80°-90°)	411.6	1.2			G3/500
BL (0°-30°)	1750.7	4.9	B3/2500		
BM (30°-60°)	2930.8	8.2	B3/5000		
BH (60°-80°)	1645.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	115.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7
2.5°	6149.9	6178.8	6186.5	6205.7	6246.3	6279.0	6311.8	6307.9	6354.2	6373.4	6390.8
5°	5876.2	5883.9	5912.8	5951.3	6022.7	6113.2	6202.0	6203.9	6317.6	6408.2	6452.5
7.5°	5675.7	5700.8	5720.1	5760.6	5835.8	5934.0	6074.7	6086.3	6288.7	6467.9	6562.3
10°	5544.7	5573.6	5594.8	5645.0	5720.1	5830.0	5982.2	6003.4	6267.5	6562.3	6728.1
12.5°	5425.2	5454.1	5473.4	5538.9	5637.2	5772.1	5943.7	5968.7	6275.1	6672.2	6909.2
15°	5498.5	5521.6	5513.8	5533.2	5598.7	5752.9	5959.1	5984.1	6304.1	6778.2	7088.5
17.5°	5824.2	5843.4	5779.9	5706.6	5675.7	5789.5	6007.3	6034.3	6361.9	6888.0	7271.5
20°	6304.1	6356.1	6217.3	6053.5	5905.1	5920.6	6107.5	6136.4	6442.8	6997.9	7458.5
22.5°	6928.5	6967.0	6797.5	6527.6	6253.9	6113.2	6257.8	6275.1	6564.3	7140.5	7662.8
25°	7662.8	7685.9	7450.8	7103.8	6708.8	6442.8	6464.0	6494.9	6764.7	7302.4	7843.9
27.5°	8375.9	8449.1	8177.4	7753.3	7233.0	6789.7	6747.3	6766.6	6982.5	7393.0	7969.2
30°	9221.9	9216.2	8929.0	8437.5	7770.7	7167.5	7015.2	7011.3	7100.1	7437.3	8059.8
32.5°	9896.5	9975.5	9694.1	9158.3	8385.5	7558.7	7200.2	7192.6	7190.6	7514.4	8194.7
35°	10663.5	10675.1	10416.9	9877.2	9050.4	8050.1	7458.5	7420.0	7375.7	7680.1	8377.8
37.5°	11349.6	11403.6	11166.5	10561.4	9703.7	8560.9	7813.1	7788.1	7653.2	7967.3	8670.7
40°	11885.4	11925.9	11783.3	11207.0	10347.5	9112.1	8264.1	8217.8	8054.0	8437.5	9061.9
42.5°	12060.8	12143.6	12199.5	11916.2	11087.5	9765.4	8819.1	8761.3	8636.1	9150.7	9513.0
45°	12074.3	12205.3	12500.2	12513.7	11831.4	10547.9	9466.7	9426.3	9416.6	10064.2	10147.0
47.5°	11972.1	12105.1	12600.5	12868.3	12494.4	11338.0	10401.4	10337.8	10343.6	11193.5	10858.2
50°	11725.5	11883.5	12484.8	13095.7	13012.9	12159.1	11388.1	11367.0	11486.5	12482.9	11596.3
52.5°	11261.0	11451.8	12365.3	13238.3	13398.3	12866.4	12509.9	12450.1	12752.7	13882.1	12403.8
55°	9975.5	10262.6	11927.8	13317.4	13764.5	13542.9	13519.7	13627.6	14028.6	15408.5	13292.3
57.5°	9304.8	9520.6	10977.7	13330.9	14227.0	14329.2	14699.2	14726.2	15427.7	17029.2	14296.4
60°	8938.7	9129.4	10457.3	13242.2	14872.7	15302.4	15905.7	16002.0	16794.1	18785.0	15337.1
62.5°	8618.7	8782.6	10145.1	12935.8	15601.1	16746.0	17468.7	17514.9	18345.6	20723.8	16364.3
65°	7865.1	8052.1	9516.8	12629.3	16229.4	18549.9	19542.4	19488.4	19997.2	22396.7	17008.0
67.5°	6849.4	7086.5	8343.1	11571.2	16539.8	20521.5	21878.3	21810.8	21627.7	23493.3	17193.1
70°	5552.5	5679.6	6841.8	9742.3	15300.5	21556.4	23722.7	23651.4	22637.6	23637.8	16318.1
71°	4777.6	4976.2	5957.1	8653.4	14269.4	21240.3	23959.7	23940.4	22639.6	23238.9	15659.0
72.5°	3729.2	3850.7	4717.9	6705.0	12128.2	19444.1	23373.8	23447.0	22148.1	22130.7	14300.3
75°	2359.0	2412.9	2960.2	3947.1	6654.8	13770.3	19952.9	20151.5	19665.8	18114.3	10634.6
77.5°	1370.2	1439.6	1773.1	2326.2	2875.5	7473.9	14277.2	14493.0	13664.2	9973.6	4353.7
80°	797.9	875.0	1167.9	1351.0	1320.2	2773.4	7269.6	7637.7	5916.7	2519.0	1221.9
82.5°	443.3	495.3	821.0	822.9	703.4	905.8	2287.7	2393.7	1688.3	1015.7	499.1
85°	321.9	364.2	530.0	479.9	337.2	389.3	795.9	834.5	682.2	427.8	161.9
87.5°	113.7	161.9	291.0	231.3	92.5	80.9	229.3	187.0	173.4	119.5	36.6
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°	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7	6365.7
2.5°	6400.4	6404.3	6385.0	6350.3	6315.7	6271.3	6221.2	6182.6	6165.3	6163.4	6161.4
5°	6469.8	6479.5	6406.2	6298.2	6178.8	6032.3	5907.0	5764.5	5727.8	5670.0	5687.3
7.5°	6581.6	6575.8	6431.3	6202.0	5922.5	5612.2	5350.1	5197.8	5039.8	4995.5	4997.4
10°	6741.5	6705.0	6431.3	6005.3	5538.9	5078.3	4712.1	4480.8	4355.6	4251.5	4213.0
12.5°	6911.2	6818.7	6369.6	5729.7	5045.6	4480.8	4087.7	3775.5	3694.6	3609.7	3611.7
15°	7073.1	6918.8	6248.2	5342.4	4513.6	3842.9	3461.4	3274.4	3249.4	3259.0	3257.1
17.5°	7219.5	6990.1	6063.2	4910.7	3893.1	3295.6	3093.3	3106.7	3174.2	3222.4	3228.2
20°	7367.9	7032.6	5787.6	4332.5	3307.1	2964.1	2971.8	3077.8	3180.0	3245.5	3255.2
22.5°	7508.6	7051.9	5463.8	3773.6	2883.2	2823.4	2937.1	3050.8	3151.1	3214.6	3224.3
25°	7601.1	7007.5	5005.1	3189.6	2675.1	2773.4	2892.8	2989.2	3073.9	3139.5	3154.9
27.5°	7626.2	6864.9	4436.5	2717.4	2578.7	2725.2	2835.0	2906.3	2971.8	3033.5	3045.1
30°	7612.6	6654.8	3812.1	2439.9	2522.7	2669.2	2754.0	2806.1	2885.1	2933.3	2942.9
32.5°	7591.5	6410.1	3160.7	2291.5	2476.5	2617.2	2667.3	2713.6	2711.6	2692.4	2705.8
35°	7599.2	6117.1	2632.7	2202.8	2436.0	2578.7	2621.1	2563.3	2397.5	2389.8	2382.1
37.5°	7639.6	5828.0	2249.1	2141.2	2414.8	2572.9	2596.0	2330.1	2183.6	2116.1	2098.8
40°	7743.8	5490.7	1996.6	2094.9	2412.9	2617.2	2482.3	2212.5	1931.1	1800.1	1790.4
42.5°	7882.5	5159.3	1842.5	2066.0	2436.0	2684.6	2436.0	2046.7	1740.3	1663.2	1651.6
45°	8088.7	4779.6	1757.7	2052.5	2470.8	2709.7	2420.7	1925.3	1663.2	1601.5	1601.5
47.5°	8321.9	4417.3	1711.4	2042.9	2515.1	2692.4	2283.8	1886.8	1626.6	1634.3	1670.9
50°	8553.1	4103.2	1676.7	2021.7	2553.6	2682.7	2227.9	1884.8	1636.2	1734.6	1800.1
52.5°	8821.1	3881.5	1634.3	1987.0	2553.6	2621.1	2210.6	1923.4	1663.2	1692.1	1721.0
55°	9144.9	3812.1	1580.3	1911.8	2507.4	2466.9	2200.9	1979.3	1682.5	1615.1	1626.6
57.5°	9572.7	3923.9	1528.3	1817.4	2401.4	2306.9	2197.1	1994.7	1638.2	1582.3	1570.7
60°	10070.0	4145.5	1512.9	1721.0	2256.8	2170.1	2174.0	1950.4	1576.5	1518.7	1528.3
62.5°	10418.7	4278.5	1503.3	1647.8	2098.8	2019.7	2118.1	1896.5	1549.5	1499.4	1509.0
65°	10418.7	4116.6	1414.6	1536.0	1894.5	1838.6	2050.6	1829.0	1514.8	1457.0	1447.4
67.5°	10023.7	3644.5	1279.7	1368.4	1669.0	1632.4	1956.2	1748.0	1462.8	1418.4	1395.3
70°	8994.5	2763.7	1110.1	1171.8	1383.8	1416.5	1834.7	1638.2	1376.0	1322.1	1287.4
71°	8541.6	2407.1	1038.8	1071.5	1273.9	1322.1	1776.9	1591.9	1337.5	1260.4	1198.8
72.5°	7668.6	2027.5	930.9	944.4	1088.9	1175.6	1655.5	1503.3	1264.3	1154.4	1085.1
75°	5826.1	1480.2	749.7	742.0	805.6	932.8	1401.1	1339.5	1108.2	959.7	919.3
77.5°	2517.0	805.6	560.9	566.6	547.3	707.3	1102.4	1150.6	950.2	780.5	743.9
80°	763.2	464.5	383.5	391.2	366.2	474.1	776.7	902.0	763.2	607.1	557.0
82.5°	391.2	277.5	262.1	258.3	233.2	267.9	470.3	616.7	545.4	379.7	335.3
85°	169.6	148.4	129.1	125.3	109.8	96.4	167.7	308.4	289.1	212.0	202.3
87.5°	42.4	38.5	25.1	23.1	13.5	1.9	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)