

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: P648398

Luminaire Tested: **GALN-SA4B-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12939.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

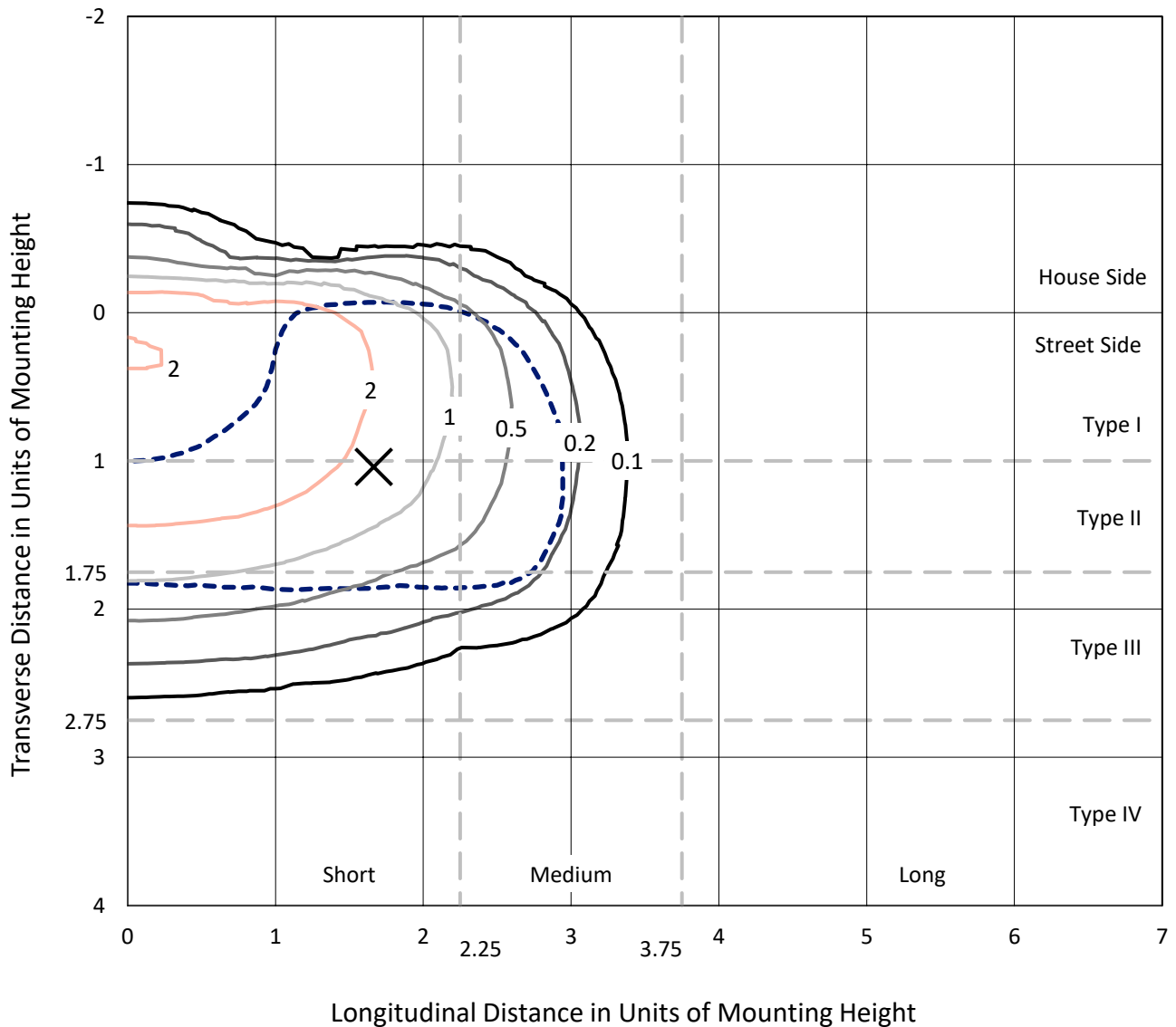
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

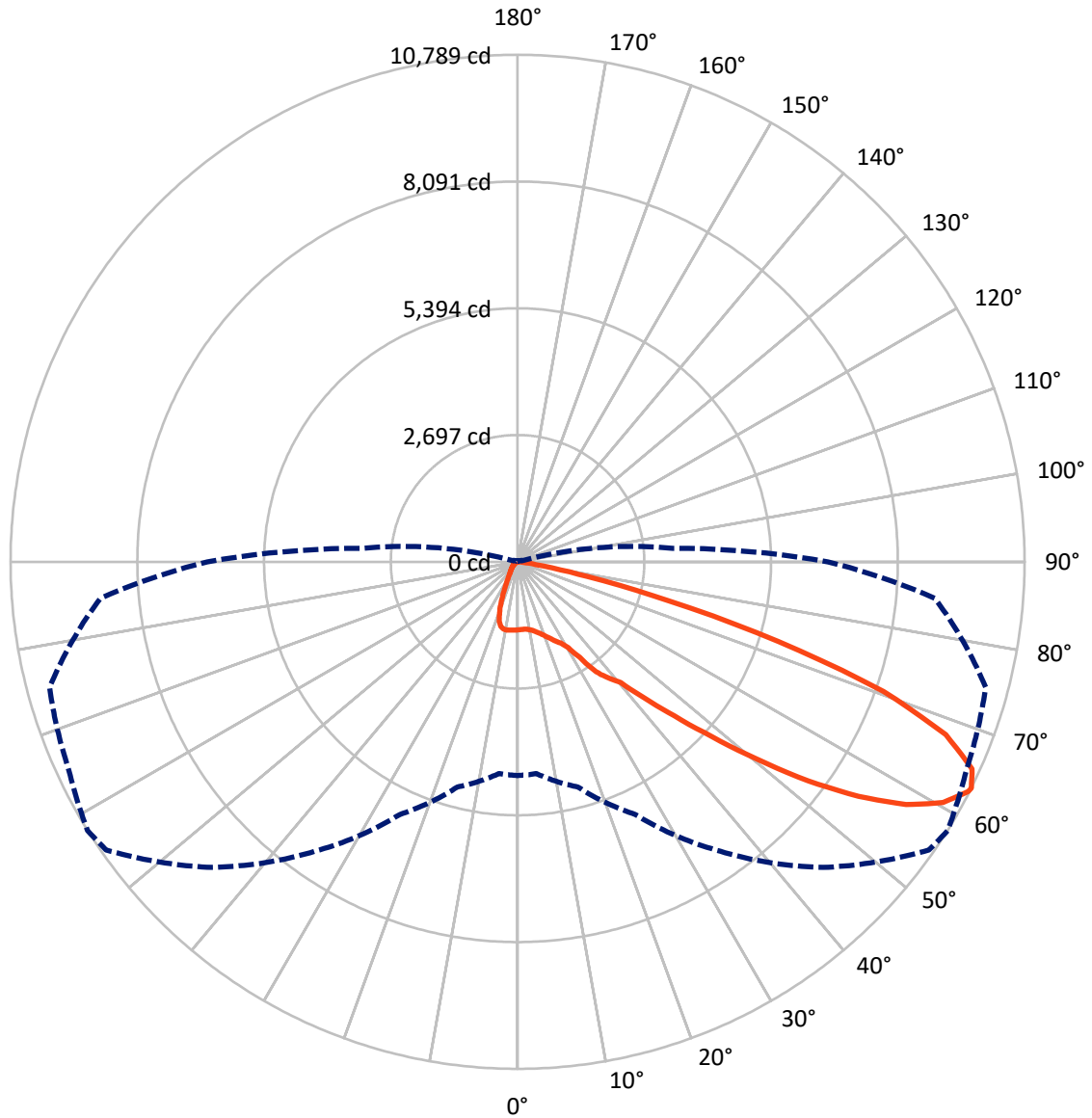
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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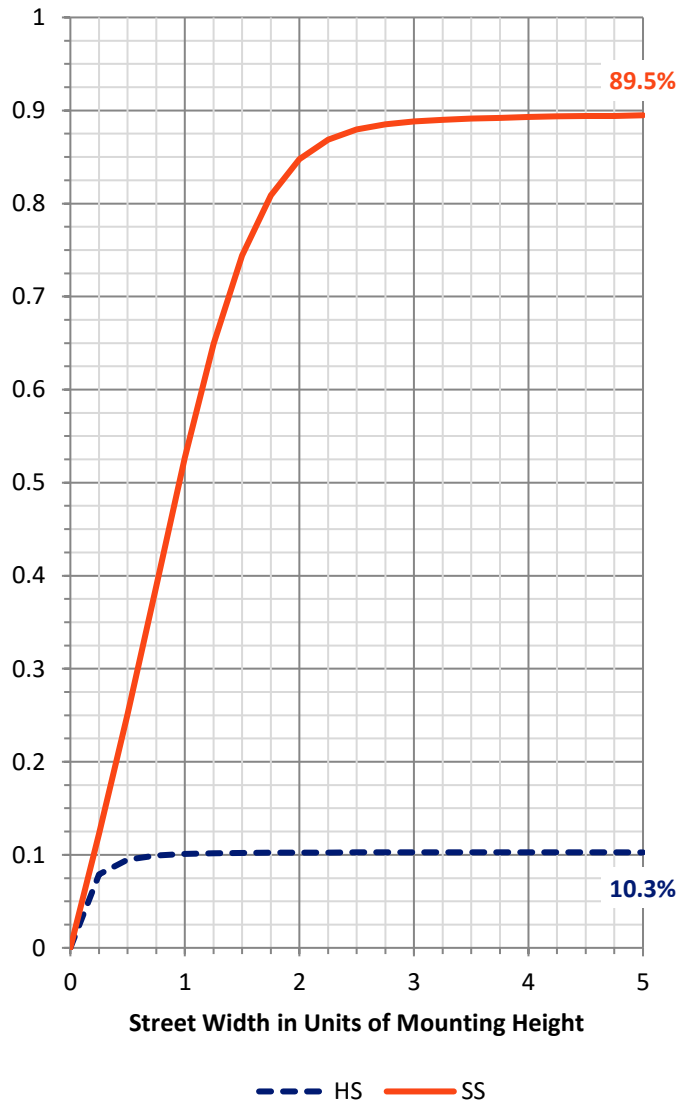
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.8	0.0	1339.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11600.0	0.0	11600.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	12939.9	0.0	12939.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.0
10°-20°	369.4	2.9
20°-30°	641.1	5.0
30°-40°	1178.0	9.1
40°-50°	2217.6	17.1
50°-60°	3793.0	29.3
60°-70°	3631.8	28.1
70°-80°	926.1	7.2
80°-90°	47.4	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°	12939.9	100.0
0°-180°	12939.9	100.0

Coefficient of Utilization

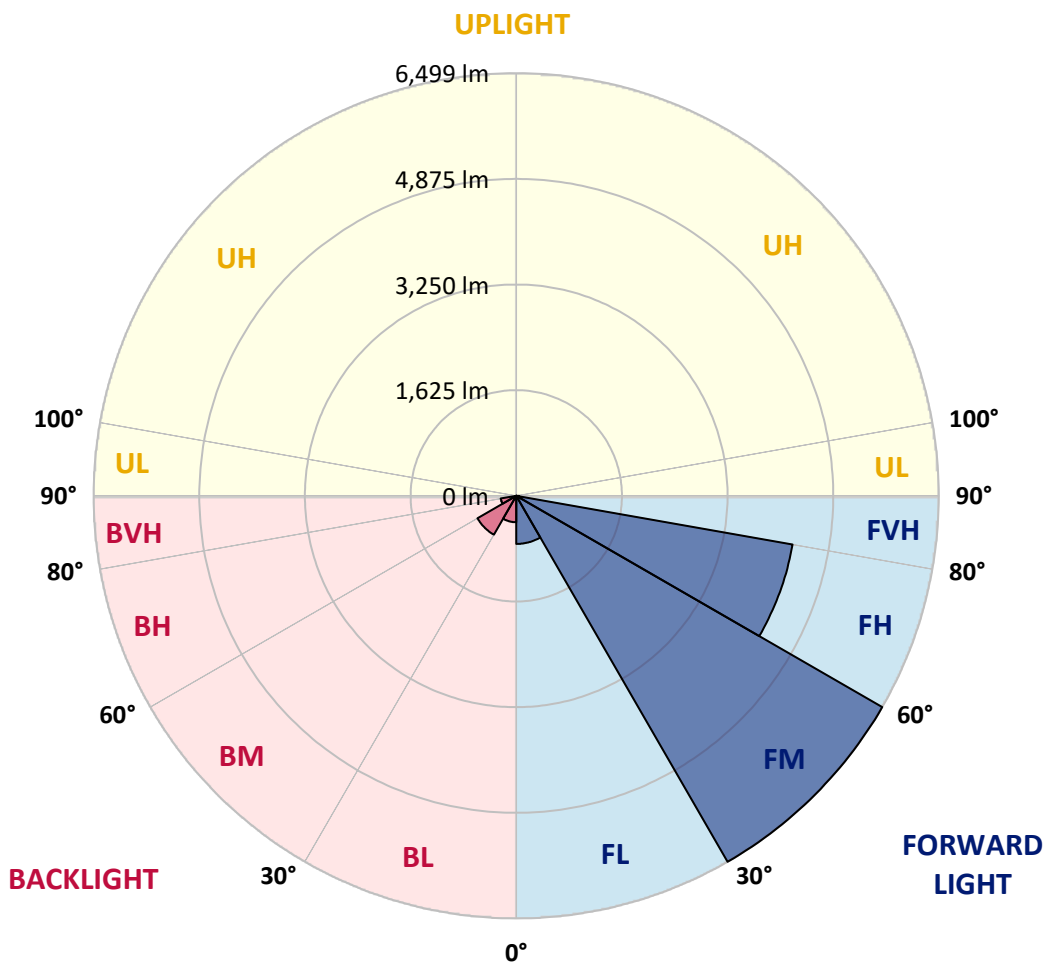


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.7	5.7			
FM (30°-60°)	6499.4	50.2			
FH (60°-80°)	4315.4	33.3			G2/5000
FVH (80°-90°)	45.5	0.4			G1/100
BL (0°-30°)	406.3	3.1	B1/500		
BM (30°-60°)	689.1	5.3	B1/1000		
BH (60°-80°)	242.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1412.6	1417.5	1422.4	1424.3	1431.2	1438.0	1442.8	1441.8	1449.6	1453.6	1453.6
5°	1356.1	1356.1	1368.8	1380.5	1399.9	1419.4	1438.0	1441.8	1456.5	1470.1	1474.9
7.5°	1308.4	1311.3	1321.1	1342.5	1368.8	1402.9	1439.9	1448.6	1474.0	1504.2	1516.8
10°	1286.0	1288.0	1300.6	1323.0	1356.1	1402.9	1454.5	1471.1	1510.0	1557.8	1575.3
12.5°	1281.1	1284.0	1296.7	1322.0	1360.0	1416.5	1486.7	1504.2	1560.7	1622.1	1648.4
15°	1289.8	1291.8	1304.5	1331.7	1373.6	1440.9	1529.5	1553.9	1621.1	1692.2	1726.4
17.5°	1321.1	1319.1	1327.9	1350.3	1397.0	1471.1	1581.2	1610.4	1689.3	1786.7	1809.1
20°	1453.6	1440.9	1433.0	1413.6	1432.1	1513.9	1643.5	1686.3	1783.8	1883.2	1898.8
22.5°	1739.0	1710.7	1655.2	1579.2	1520.7	1572.4	1718.5	1768.2	1893.9	1991.3	1991.3
25°	2102.4	2066.3	2010.8	1845.1	1701.9	1668.8	1803.2	1865.7	2013.7	2112.1	2080.0
27.5°	2557.4	2529.1	2421.0	2228.0	2008.9	1837.4	1901.7	1959.1	2119.9	2238.8	2171.6
30°	2927.6	2913.9	2825.2	2652.8	2411.2	2160.8	2084.8	2122.8	2261.1	2398.6	2329.3
32.5°	3240.3	3240.3	3149.7	2988.9	2762.9	2540.8	2395.6	2422.9	2555.4	2714.2	2585.6
35°	3584.2	3572.4	3499.4	3346.5	3093.2	2897.3	2837.9	2874.9	2994.7	3112.7	2796.0
37.5°	3945.6	3941.7	3865.7	3717.6	3511.1	3264.6	3125.3	3135.1	3196.4	3268.5	3042.5
40°	4338.2	4344.1	4244.7	4153.1	3958.3	3705.9	3439.0	3377.6	3435.1	3638.7	3497.4
42.5°	4801.9	4788.3	4745.4	4620.7	4463.9	4312.8	3992.4	3970.0	4020.6	4238.8	4085.9
45°	5340.7	5360.2	5286.1	5217.0	5111.7	4986.1	4718.1	4679.2	4734.7	5073.8	4856.5
47.5°	5880.4	5861.9	5909.6	5896.9	5953.5	5860.0	5623.2	5543.3	5676.8	5998.2	5678.7
50°	6291.5	6312.0	6411.4	6556.5	6799.1	6851.7	6624.7	6597.4	6656.8	6863.4	6414.3
52.5°	6558.5	6626.7	6782.5	7155.7	7593.1	7933.1	7760.6	7746.1	7721.7	7777.2	7117.6
55°	6732.9	6802.0	7005.7	7555.1	8308.2	8860.5	8869.3	8806.9	8646.2	8606.3	7775.3
57.5°	6625.7	6639.3	6929.6	7664.2	8704.7	9522.1	9808.5	9746.1	9449.0	9298.0	8355.9
60°	5955.4	5983.7	6387.9	7251.1	8532.2	9738.3	10431.0	10402.7	10077.4	9906.8	8808.0
62.5°	4767.8	4849.7	5265.7	6228.2	7730.5	9373.9	10683.3	10763.2	10509.9	10275.1	8950.2
63°	4549.6	4523.3	4962.7	5930.1	7518.1	9193.8	10687.2	10788.6	10529.4	10310.2	8911.2
65°	3367.9	3446.8	3732.2	4676.2	6256.5	8354.9	10446.6	10625.9	10457.3	10155.3	8479.7
67.5°	1890.9	1887.0	2202.7	3060.0	4379.2	6553.6	9446.0	9825.0	9789.9	9112.9	7029.0
70°	925.5	940.1	1069.7	1586.0	2539.8	4521.4	7849.3	8258.5	8271.1	7157.6	4860.4
72.5°	418.9	425.7	518.3	772.6	1305.4	2407.3	5408.9	5799.5	5727.4	4561.3	2684.0
75°	221.1	235.8	285.5	388.7	629.4	992.8	2942.1	3320.2	3169.1	2083.9	987.8
77.5°	163.6	168.5	193.9	247.4	337.1	386.8	1269.4	1510.0	1414.6	754.0	327.4
80°	119.8	123.7	144.2	175.4	212.3	196.8	478.3	548.5	492.0	256.2	100.4
82.5°	73.1	74.1	105.2	130.5	133.5	110.1	157.9	169.5	177.3	144.2	54.6
85°	26.3	33.1	71.1	94.5	78.9	55.5	66.2	73.1	79.9	91.6	32.2
87.5°	2.9	3.9	34.1	45.8	22.4	20.4	24.4	27.2	29.2	34.1	15.6
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°	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1457.4	1461.3	1458.4	1453.6	1452.5	1449.6	1443.8	1443.8	1443.8	1445.7	1443.8
5°	1478.9	1481.8	1474.9	1465.2	1454.5	1440.9	1426.2	1417.5	1416.5	1414.6	1409.7
7.5°	1519.8	1523.7	1508.1	1484.7	1455.5	1422.4	1391.2	1362.0	1348.3	1337.6	1337.6
10°	1579.2	1583.1	1551.9	1510.0	1451.6	1384.3	1310.4	1243.1	1190.5	1166.1	1160.3
12.5°	1650.3	1652.3	1600.6	1527.6	1431.2	1301.6	1143.7	996.6	894.3	847.6	842.7
15°	1728.2	1714.6	1646.4	1534.4	1372.7	1131.0	858.3	678.1	571.9	540.7	552.4
17.5°	1807.2	1781.9	1681.5	1523.7	1241.1	858.3	576.8	462.8	429.6	420.9	420.9
20°	1881.2	1846.2	1706.9	1476.9	1013.2	591.3	427.7	400.4	394.6	388.7	389.7
22.5°	1955.2	1901.7	1729.3	1372.7	755.0	422.8	382.9	374.1	366.3	358.5	357.5
25°	2027.3	1953.4	1738.0	1179.7	514.4	363.4	349.8	338.0	322.4	313.7	311.7
27.5°	2102.4	2015.7	1732.2	936.2	375.1	325.4	311.7	295.2	276.7	261.1	261.1
30°	2246.6	2134.5	1711.7	673.2	315.6	286.4	268.9	242.6	222.1	206.6	205.5
32.5°	2443.4	2289.4	1641.6	473.5	280.5	252.4	226.1	196.8	175.4	163.6	163.6
35°	2618.7	2445.3	1510.0	348.7	252.4	219.2	187.1	158.8	142.3	134.4	131.5
37.5°	2885.7	2673.2	1328.8	283.5	225.0	190.0	156.8	130.5	116.9	111.0	111.0
40°	3286.0	2951.9	1106.7	248.4	198.7	161.7	130.5	110.1	99.4	92.6	92.6
42.5°	3782.9	3292.9	881.7	223.1	174.4	139.3	109.2	93.5	83.8	78.9	77.9
45°	4408.4	3652.4	679.0	199.7	154.9	118.9	92.6	78.9	69.1	66.2	67.3
47.5°	5061.1	3968.9	526.1	179.2	134.4	100.4	78.9	68.2	61.4	57.5	57.5
50°	5618.3	4187.2	399.4	155.9	118.9	84.7	69.1	61.4	55.5	53.6	52.6
52.5°	6084.0	4250.5	305.9	135.4	104.2	73.1	61.4	55.5	50.7	47.8	47.8
55°	6480.5	4195.0	239.7	114.0	87.7	63.3	54.6	49.7	43.8	41.0	39.9
57.5°	6712.4	4016.7	183.1	94.5	71.1	52.6	47.8	41.9	35.1	30.2	30.2
60°	6829.3	3757.5	140.3	77.9	54.6	41.9	39.0	31.2	24.4	20.4	19.5
62.5°	6689.0	3413.6	106.2	61.4	41.0	31.2	26.3	22.4	15.6	11.7	11.7
63°	6602.3	3314.3	102.3	58.5	38.0	29.2	24.4	20.4	13.6	10.7	9.7
65°	6018.8	2880.7	83.8	46.7	30.2	20.4	16.6	14.6	9.7	4.9	3.9
67.5°	4779.5	2203.7	66.2	35.1	21.5	14.6	9.7	8.8	2.9	0.0	0.0
70°	3231.5	1423.3	51.6	25.3	14.6	8.8	4.9	3.9	0.9	0.0	0.0
72.5°	1685.4	729.7	39.9	18.5	8.8	5.9	2.9	0.9	0.0	0.0	0.0
75°	596.3	248.4	29.2	11.7	5.9	2.9	0.9	0.0	0.0	0.0	0.0
77.5°	180.2	92.6	18.5	8.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
80°	63.3	34.1	10.7	5.9	2.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	16.6	6.8	4.9	2.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	17.5	10.7	5.9	4.9	2.9	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	7.8	5.9	4.9	3.9	2.0	0.9	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)