

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: P647948

Luminaire Tested: **GALN-SA5A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10577.6 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

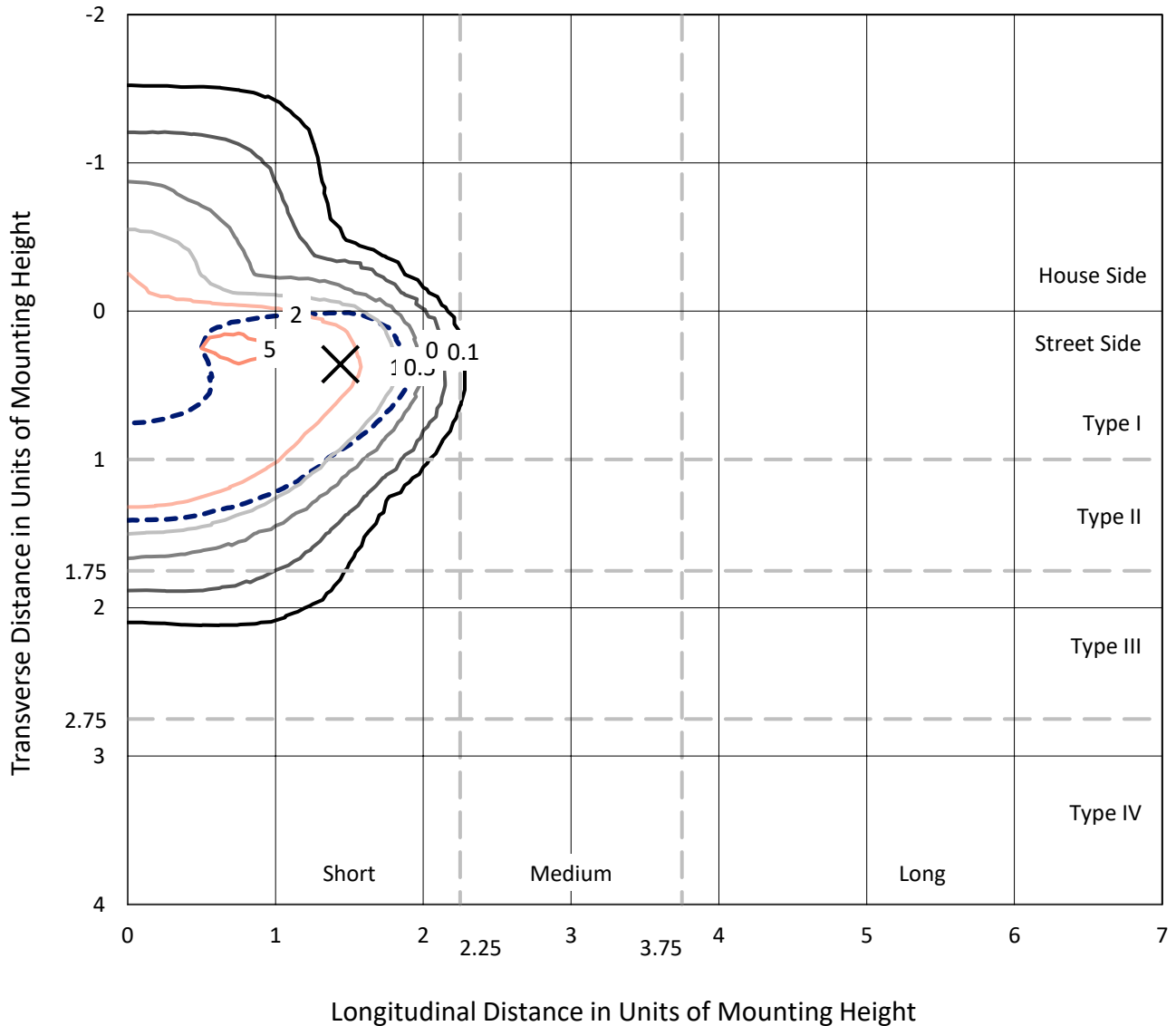
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

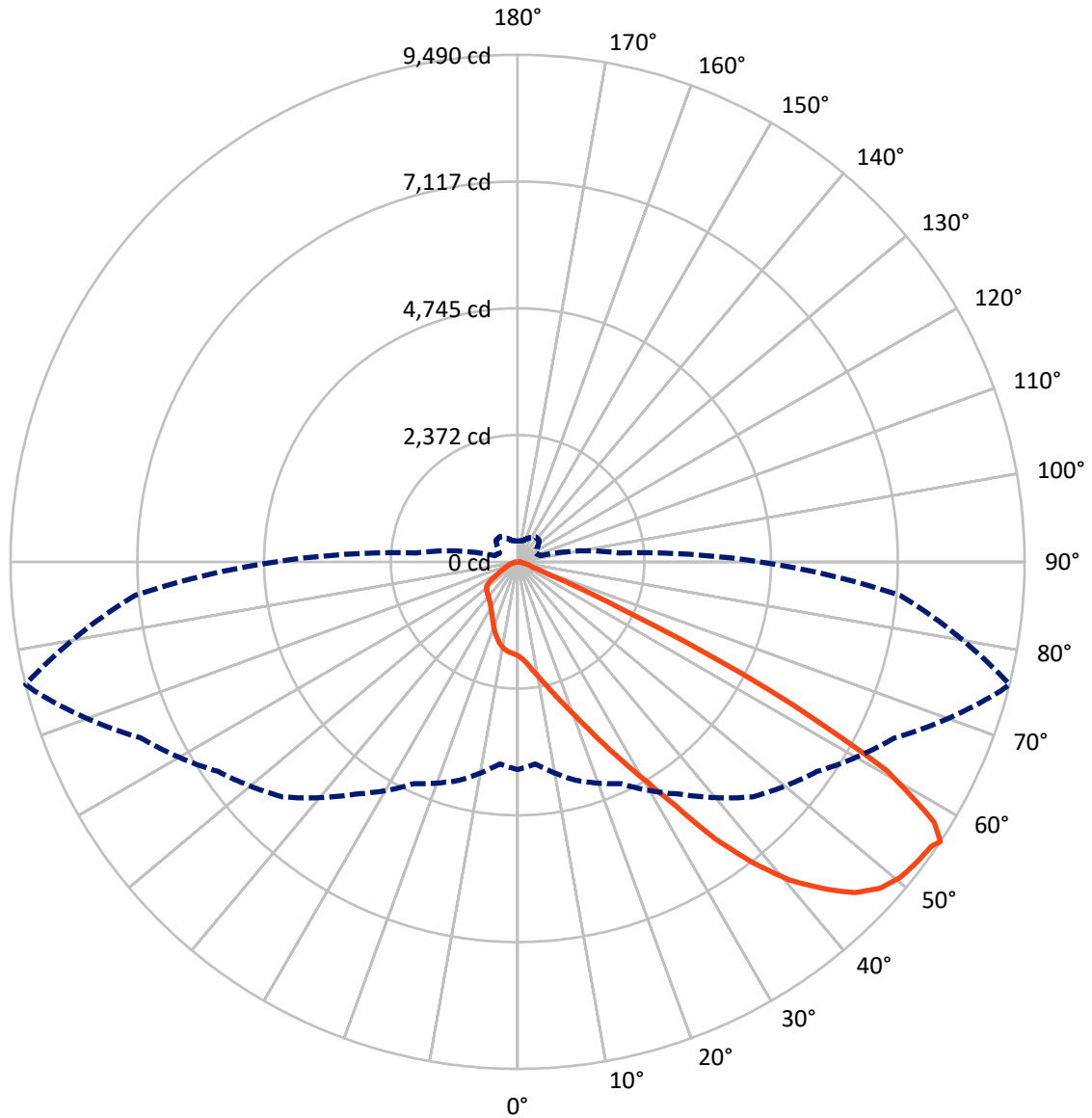
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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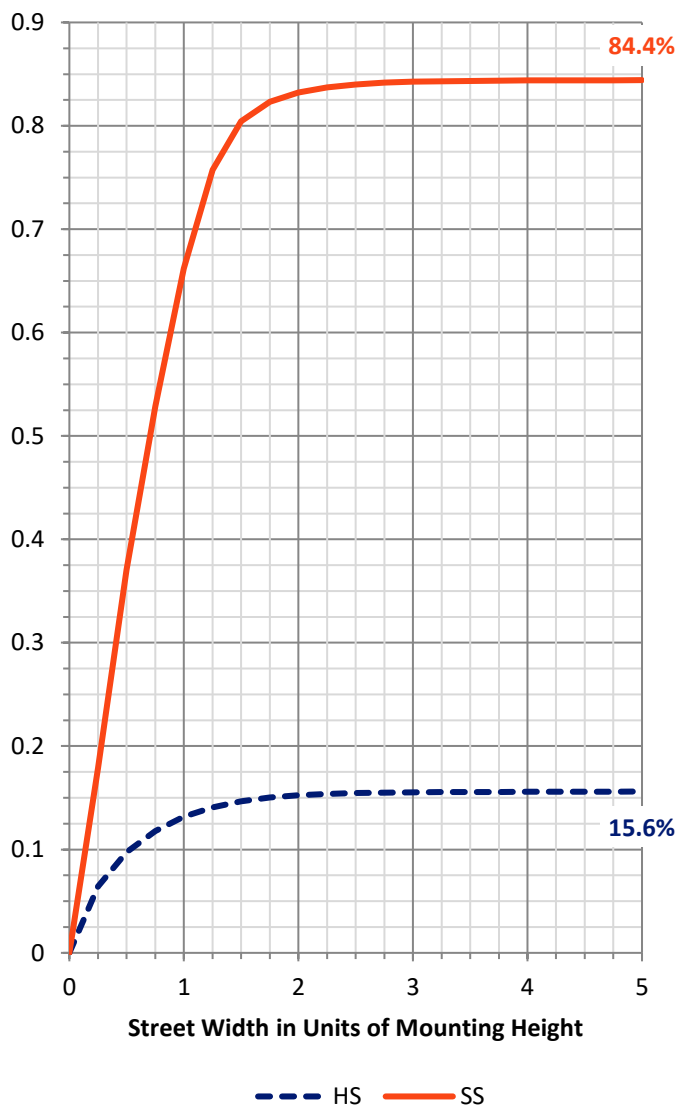
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.7	0.0	1661.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	8915.9	0.0	8915.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	10577.6	0.0	10577.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.7
10°-20°	569.8	5.4
20°-30°	1033.2	9.8
30°-40°	1781.8	16.8
40°-50°	2894.6	27.4
50°-60°	3051.0	28.8
60°-70°	932.2	8.8
70°-80°	119.5	1.1
80°-90°	18.2	0.2
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°	10577.6	100.0
0°-180°	10577.6	100.0

Coefficient of Utilization



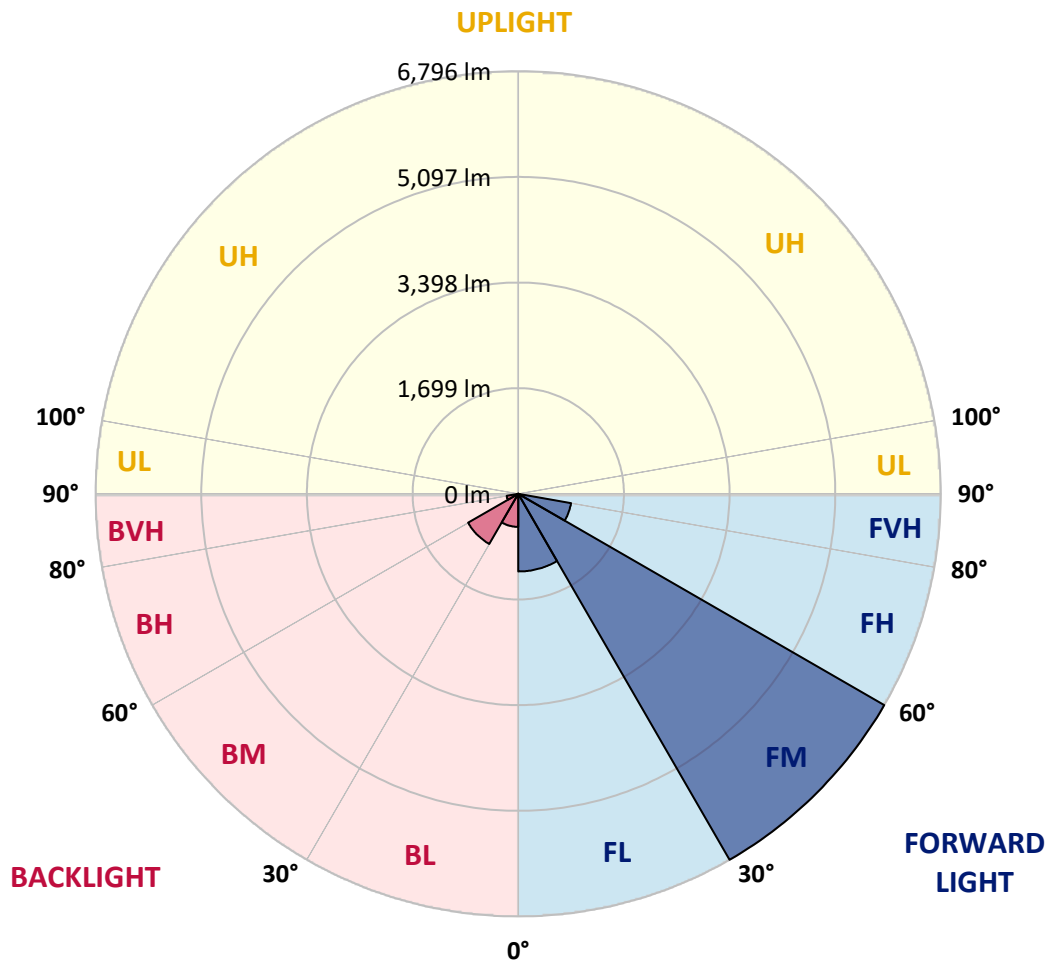
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.8	11.8			
FM (30°-60°)	6796.1	64.2			
FH (60°-80°)	862.1	8.2			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	531.6	5.0	B2/1000		
BM (30°-60°)	931.3	8.8	B1/1000		
BH (60°-80°)	189.6	1.8	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7
2.5°	2027.7	1981.0	1982.9	1979.0	1973.2	1951.7	1887.4	1877.6	1834.7	1823.1	1784.1
5°	2271.5	2230.5	2253.9	2218.9	2185.7	2166.2	2060.9	2012.2	1944.0	1918.6	1864.0
7.5°	2423.5	2404.0	2396.3	2398.3	2367.0	2318.3	2271.5	2164.3	2072.6	2053.1	1938.1
10°	2497.7	2485.9	2497.7	2491.8	2505.4	2511.3	2429.4	2365.1	2230.5	2197.4	2018.0
12.5°	2515.2	2538.6	2548.4	2573.7	2606.8	2663.4	2657.6	2569.8	2390.4	2369.0	2140.9
15°	2558.1	2577.6	2567.8	2608.8	2671.2	2766.7	2817.4	2803.8	2610.8	2571.8	2283.1
17.5°	2597.1	2562.0	2595.2	2677.1	2739.4	2885.7	3008.5	3065.1	2850.6	2805.7	2413.8
20°	2649.8	2640.0	2634.2	2675.1	2786.2	2981.2	3224.9	3328.3	3119.6	3072.9	2601.0
22.5°	2809.6	2811.6	2807.7	2747.2	2827.2	3047.5	3414.0	3669.5	3441.4	3402.4	2813.6
25°	3020.2	2994.8	2975.3	2926.6	2916.8	3108.0	3605.2	4086.7	3827.4	3800.1	3043.6
27.5°	3242.5	3242.5	3184.0	3139.1	3076.7	3258.1	3780.6	4492.3	4293.4	4256.4	3244.4
30°	3484.3	3497.9	3490.1	3394.5	3355.5	3421.9	3960.0	5011.0	4827.7	4780.8	3575.9
32.5°	3841.1	3811.8	3844.9	3765.1	3650.0	3708.4	4242.7	5475.0	5521.8	5455.5	4010.7
35°	4312.9	4295.4	4273.9	4143.2	4006.8	4053.6	4642.4	6046.2	6393.4	6360.2	4449.4
37.5°	4736.0	4726.3	4708.7	4619.0	4461.1	4517.6	5096.7	6640.9	7243.5	7134.2	5069.5
40°	5180.6	5233.2	5176.6	5096.7	4952.4	5077.2	5630.9	6993.8	7959.0	7826.4	5543.2
42.5°	5783.0	5742.1	5767.4	5621.2	5543.2	5679.7	6167.1	7346.7	8514.7	8356.7	6046.2
45°	6424.5	6426.5	6358.2	6311.4	6108.7	6256.8	6496.6	7541.7	8957.3	8834.4	6426.5
47.5°	6835.9	6833.9	6908.1	6982.2	6773.5	6627.3	6720.9	7727.0	9185.4	9128.8	6564.9
50°	6771.5	6791.0	6886.6	7163.5	7272.7	7075.7	6931.4	7672.4	9288.7	9282.9	6683.8
52.5°	5890.3	5954.6	6114.5	6514.2	7064.1	7307.7	7151.8	7773.8	9339.5	9349.2	6861.3
55°	4484.5	4519.6	4823.7	5309.2	5917.6	6752.0	7064.1	7853.7	9378.5	9396.0	7075.7
56°	3889.8	3796.2	4234.9	4580.0	5307.3	6219.8	6841.8	7791.3	9355.0	9489.6	7183.0
57.5°	2936.3	2874.0	3228.9	3659.7	4359.7	5322.9	6151.6	7496.9	9197.1	9195.2	7028.9
60°	1786.0	1723.6	1996.6	2250.0	2641.9	3277.6	4156.9	5970.2	7775.7	7939.5	5691.4
62.5°	1062.6	1101.6	1370.7	1524.7	1651.4	1717.7	2150.6	3548.6	5188.4	5305.4	3531.0
65°	707.8	721.5	924.2	1177.6	1234.2	982.7	875.5	1437.0	2250.0	2177.9	1456.5
67.5°	436.8	467.9	620.1	885.2	980.7	717.5	415.3	536.2	620.1	620.1	421.2
70°	265.2	280.8	413.3	602.5	672.7	462.1	302.2	302.2	298.3	292.5	251.5
72.5°	126.8	136.5	210.5	310.0	315.9	243.7	234.0	255.4	249.5	247.6	208.6
75°	54.6	58.5	74.1	97.5	111.1	103.4	142.3	183.3	189.1	183.3	150.1
77.5°	17.5	19.5	27.3	35.1	37.0	44.9	60.4	76.0	87.8	81.9	74.1
80°	2.0	3.9	7.8	17.5	27.3	35.1	44.9	50.7	56.5	56.5	52.6
82.5°	2.0	2.0	7.8	15.6	25.4	33.1	42.9	48.8	56.5	58.5	54.6
85°	0.0	2.0	5.9	13.6	21.5	21.5	19.5	19.5	13.6	13.6	13.6
87.5°	0.0	0.0	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7	1760.7
2.5°	1776.2	1772.3	1719.7	1686.6	1669.0	1633.9	1612.4	1596.9	1585.2	1571.6	1573.4
5°	1799.6	1786.0	1698.2	1637.8	1565.7	1526.7	1493.5	1466.2	1448.7	1444.8	1437.0
7.5°	1866.0	1793.8	1661.2	1552.0	1460.4	1421.4	1392.2	1374.6	1382.4	1364.8	1378.5
10°	1916.6	1809.4	1616.3	1458.4	1366.8	1337.5	1321.9	1335.6	1355.1	1347.3	1337.5
12.5°	1979.0	1825.0	1544.2	1368.8	1282.9	1261.5	1288.8	1314.2	1353.2	1368.8	1349.3
15°	2049.2	1842.6	1452.6	1265.4	1210.8	1228.4	1275.1	1320.0	1359.0	1378.5	1390.2
17.5°	2135.0	1836.7	1362.9	1183.5	1142.6	1193.3	1249.8	1290.8	1349.3	1378.5	1370.7
20°	2215.0	1817.2	1263.4	1101.6	1103.6	1150.4	1197.1	1263.4	1294.7	1333.7	1320.0
22.5°	2291.0	1782.1	1160.1	1045.1	1045.1	1117.2	1140.6	1183.5	1210.8	1230.3	1228.4
25°	2398.3	1715.8	1074.4	990.5	1013.9	1060.7	1080.1	1093.9	1082.1	1097.7	1099.6
27.5°	2474.3	1647.6	1004.1	941.7	984.6	1019.7	1013.9	1006.1	978.8	957.4	971.0
30°	2556.2	1567.6	943.7	908.6	932.0	963.2	939.8	916.4	873.5	838.4	840.3
32.5°	2673.2	1530.6	891.1	869.6	900.8	904.7	879.4	844.2	801.3	768.2	766.2
35°	2891.5	1507.2	846.2	844.2	850.1	852.1	826.7	783.8	766.2	739.0	748.7
37.5°	3109.9	1495.5	815.0	807.2	805.2	807.2	778.0	737.0	770.2	768.2	772.1
40°	3388.7	1548.1	770.2	760.4	762.3	762.3	725.3	713.6	772.1	778.0	779.9
42.5°	3671.4	1614.4	741.0	709.7	717.5	717.5	698.0	684.3	725.3	686.3	680.5
45°	3917.1	1711.9	709.7	659.1	678.5	688.3	682.4	659.1	633.7	567.4	567.4
47.5°	3997.1	1797.7	672.7	610.3	625.9	668.8	651.2	602.5	557.7	503.1	499.2
50°	4137.5	1891.3	643.4	553.7	586.9	639.6	622.0	573.2	522.6	483.6	485.5
52.5°	4281.7	1998.5	588.8	487.4	528.4	616.1	616.1	561.6	483.6	456.3	452.3
55°	4498.1	1994.6	491.3	399.7	471.8	581.1	590.8	503.1	432.8	411.4	411.4
56°	4529.3	1905.0	442.6	374.4	446.5	571.3	573.2	487.4	413.3	389.9	389.9
57.5°	4295.4	1719.7	388.0	343.2	415.3	553.7	555.7	473.8	397.8	364.6	360.7
60°	3304.9	1164.0	323.7	306.2	376.3	499.2	508.9	430.9	349.0	323.7	321.7
62.5°	1866.0	645.3	284.7	276.9	323.7	425.0	454.3	376.3	296.4	282.7	286.7
65°	852.1	354.9	239.8	224.3	261.3	327.5	366.5	310.0	243.7	228.1	228.1
67.5°	311.9	241.8	204.8	177.4	183.3	212.5	237.9	200.8	161.8	138.4	144.3
70°	222.3	202.8	179.4	154.0	142.3	138.4	136.5	113.1	79.9	62.4	66.3
72.5°	179.4	167.7	150.1	130.6	111.1	93.6	79.9	58.5	37.0	25.4	23.4
75°	128.6	122.9	109.2	93.6	78.0	66.3	54.6	37.0	19.5	9.8	9.8
77.5°	66.3	66.3	64.4	58.5	48.8	39.0	31.2	21.5	11.7	3.9	3.9
80°	50.7	54.6	56.5	50.7	44.9	35.1	25.4	15.6	7.8	2.0	2.0
82.5°	48.8	56.5	60.4	52.6	44.9	33.1	25.4	15.6	7.8	2.0	2.0
85°	11.7	11.7	17.5	19.5	25.4	27.3	21.5	13.6	5.9	2.0	2.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	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)