

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: P529515

Luminaire Tested: **GALN-SA4C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14616 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 213
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



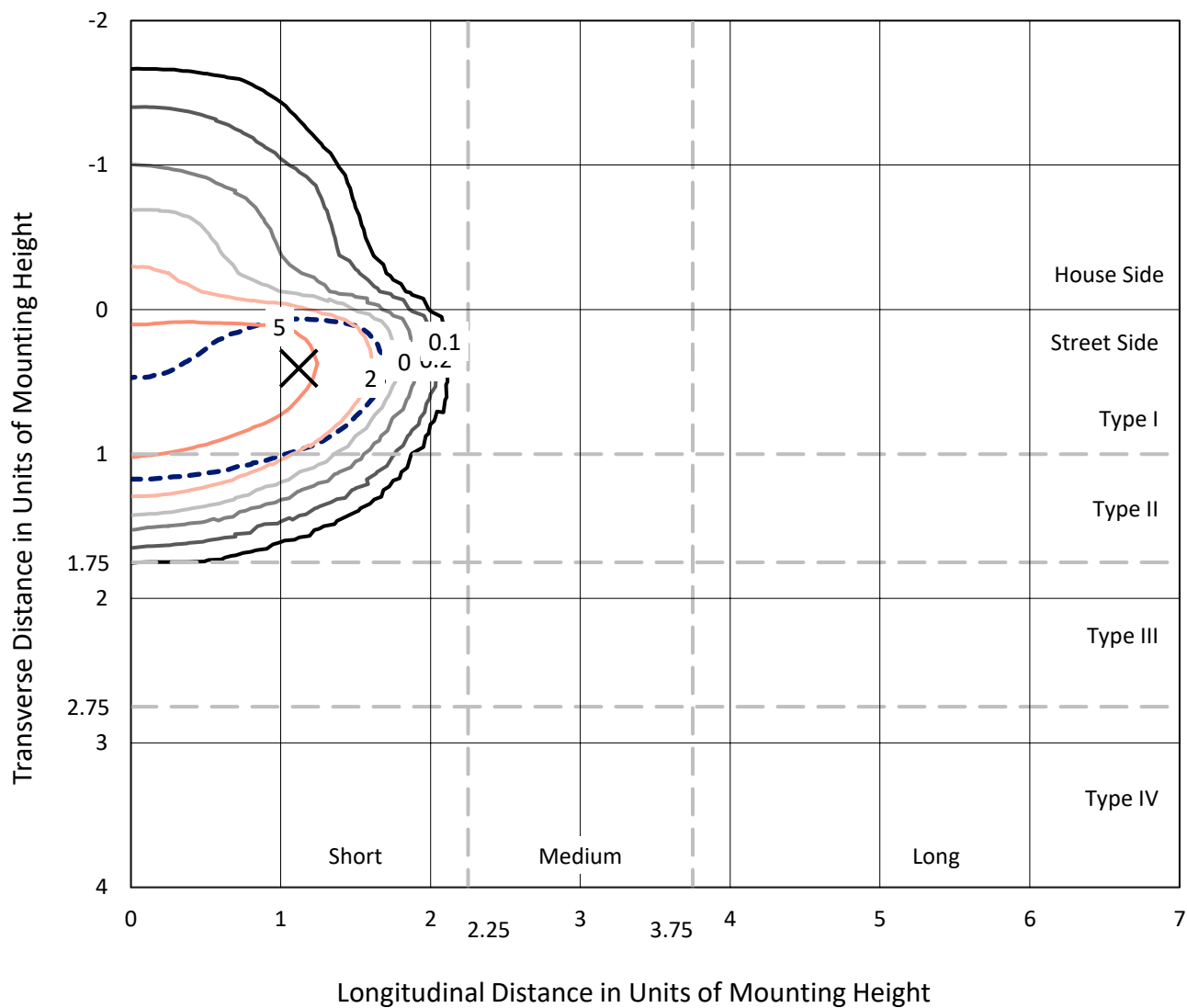
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

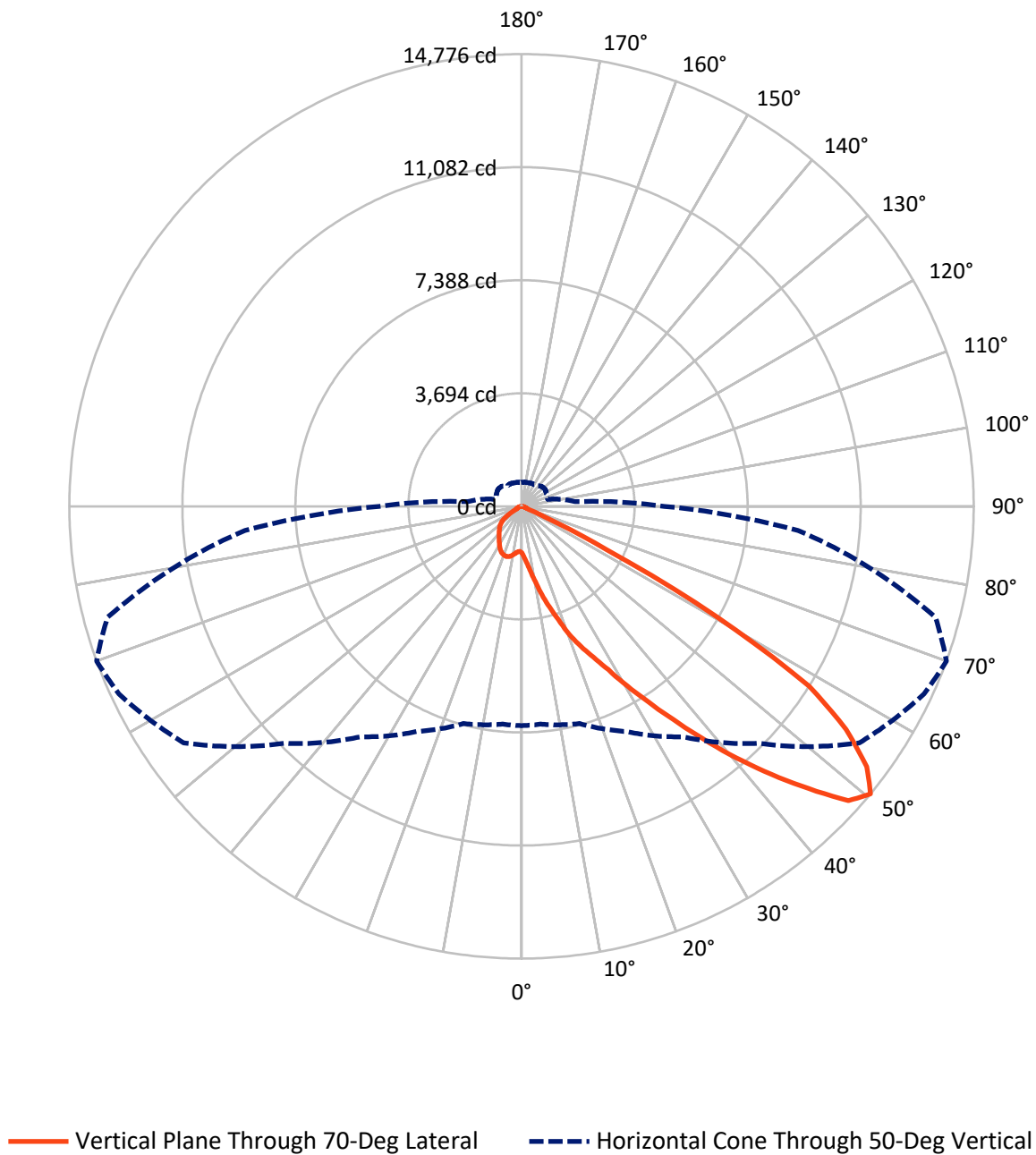


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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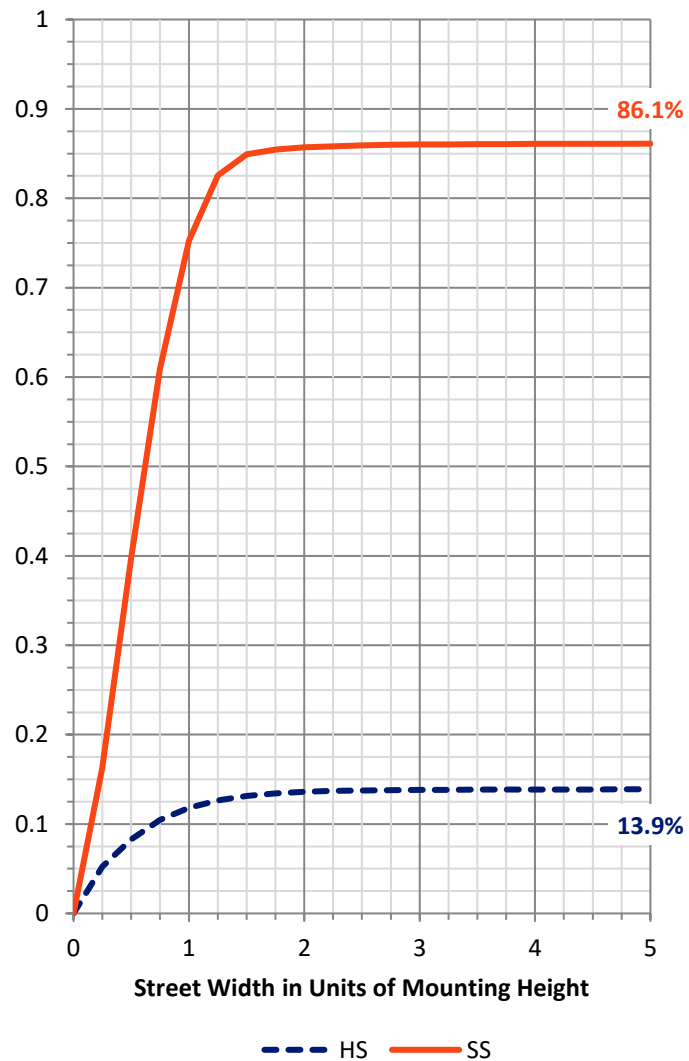
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.2	0.0	2041.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12574.8	0.0	12574.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	14616.0	0.0	14616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.3
10°-20°	851.6	5.8
20°-30°	1786.5	12.2
30°-40°	3079.2	21.1
40°-50°	4500.3	30.8
50°-60°	3505.0	24.0
60°-70°	593.8	4.1
70°-80°	81.6	0.6
80°-90°	21.1	0.1
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°	14616.0	100.0
0°-180°	14616.0	100.0

Coefficient of Utilization



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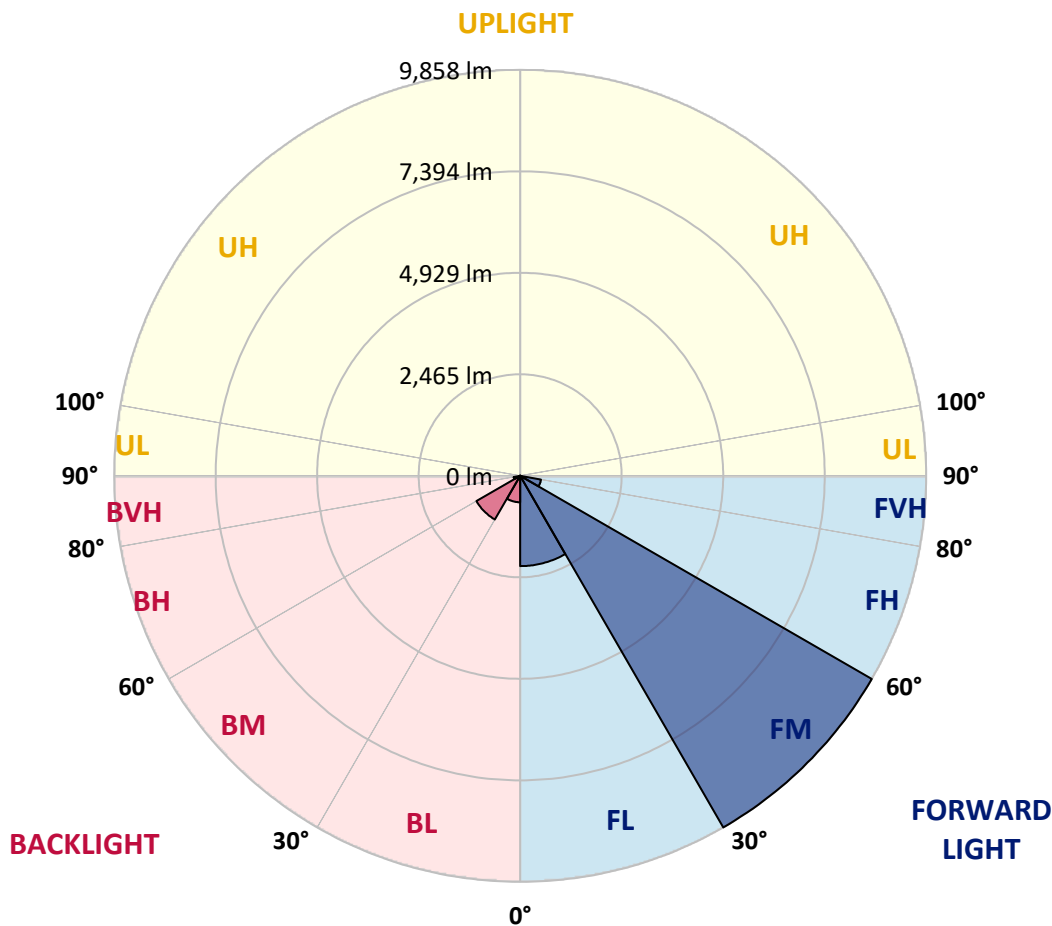
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2192.6	15.0			
FM	(30°-60°)	9858.2	67.4			
FH	(60°-80°)	514.2	3.5			G0/660
FVH	(80°-90°)	9.8	0.1			G0/10
BL	(0°-30°)	642.3	4.4	B2/1000		
BM	(30°-60°)	1226.3	8.4	B2/2500		
BH	(60°-80°)	161.2	1.1	B1/500		G1/500
BVH	(80°-90°)	11.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9
2.5°	1982.5	1968.1	1936.9	1879.2	1855.2	1797.5	1763.8	1699.0	1658.1	1612.5	1562.0
5°	2792.4	2717.9	2672.2	2607.3	2417.5	2299.7	2105.1	1939.3	1862.4	1778.3	1662.9
7.5°	3628.6	3580.6	3518.1	3378.7	3248.9	3003.8	2669.8	2304.5	2148.3	2004.2	1775.9
10°	4320.7	4186.1	4178.9	4075.6	3933.8	3640.6	3239.3	2785.2	2506.4	2294.9	1936.9
12.5°	4803.7	4681.2	4736.4	4724.4	4592.3	4323.1	3859.3	3258.6	2967.8	2638.6	2102.7
15°	5243.5	5193.0	5176.2	5161.8	5108.9	4909.5	4493.7	3835.3	3414.8	3018.2	2290.1
17.5°	5673.6	5543.9	5606.3	5618.4	5613.6	5433.3	5044.0	4383.2	3888.2	3419.6	2487.2
20°	6055.7	6067.7	5983.6	5966.8	5952.4	5945.2	5565.5	4926.3	4469.7	3840.1	2744.3
22.5°	6545.9	6461.8	6536.3	6488.3	6394.6	6336.9	6046.1	5406.9	4974.3	4347.1	3006.2
25°	7125.1	7192.4	7016.9	6997.7	6894.4	6694.9	6433.0	5945.2	5459.8	4818.1	3289.8
27.5°	7838.8	7721.0	7675.4	7569.6	7382.2	7298.1	6990.5	6500.3	6046.1	5313.2	3563.7
30°	8451.6	8420.3	8192.0	8067.1	7903.7	7901.3	7471.1	7252.4	6810.3	6089.4	3941.0
32.5°	8951.4	8814.4	8730.3	8643.8	8511.6	8547.7	8184.8	8069.5	7624.9	6810.3	4385.6
35°	9285.4	9186.9	9136.4	9004.3	8965.8	9126.8	8975.4	8927.4	8562.1	7824.4	4907.1
37.5°	9391.2	9422.4	9412.8	9247.0	9328.7	9763.6	9958.3	9833.3	9641.1	8893.7	5471.8
40°	9484.9	9506.5	9458.5	9653.1	9886.2	10381.2	11085.3	10878.7	10806.6	9977.5	6257.6
42.5°	9537.8	9520.9	9520.9	9857.4	10210.6	11205.5	12173.9	12036.9	11981.7	11131.0	7165.9
45°	9309.5	9146.1	9321.5	9778.1	10489.4	11611.6	13043.8	13233.7	13154.4	12503.1	8228.1
47.5°	8456.4	8557.3	8655.8	9266.2	10150.5	11486.6	13577.3	14223.7	14370.3	13656.6	8925.0
50°	7165.9	7144.3	7348.6	8117.5	9191.7	10948.4	13474.0	14509.7	14776.4	14002.6	9071.6
52.5°	5212.2	5370.8	5591.9	6356.1	7629.7	9554.6	12140.3	13772.0	14127.6	13577.3	8975.4
55°	3035.1	2859.6	3357.1	4003.5	5205.0	7206.8	10263.5	12207.6	12866.0	12803.5	8490.0
57.5°	1215.9	1177.5	1348.1	1816.7	2715.5	4467.3	7463.9	10030.4	11085.3	11726.9	7461.5
60°	533.5	521.5	612.8	740.1	1110.2	2059.4	4082.8	6238.4	7339.0	8194.4	5135.3
62.5°	384.5	379.7	425.3	471.0	586.3	896.3	1715.8	2513.6	3133.6	3784.8	2299.7
65°	310.0	322.0	353.3	377.3	432.6	497.4	605.6	699.3	857.9	889.1	507.0
67.5°	252.3	261.9	290.8	317.2	326.8	269.1	278.8	245.1	245.1	218.7	175.4
70°	185.0	187.4	221.1	252.3	201.9	108.1	189.8	189.8	170.6	163.4	149.0
72.5°	137.0	139.4	165.8	156.2	79.3	67.3	139.4	153.8	139.4	132.2	120.2
75°	100.9	103.3	86.5	36.0	33.6	43.3	81.7	105.7	100.9	98.5	91.3
77.5°	19.2	14.4	12.0	16.8	24.0	36.0	52.9	64.9	67.3	72.1	67.3
80°	2.4	2.4	7.2	14.4	26.4	38.4	55.3	62.5	64.9	67.3	62.5
82.5°	0.0	2.4	7.2	14.4	26.4	36.0	48.1	55.3	60.1	62.5	60.1
85°	0.0	2.4	4.8	12.0	21.6	26.4	24.0	16.8	14.4	16.8	12.0
87.5°	0.0	0.0	2.4	2.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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°	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9
2.5°	1533.2	1523.5	1489.9	1453.9	1422.6	1437.0	1422.6	1410.6	1415.4	1410.6	1405.8
5°	1617.3	1574.0	1501.9	1470.7	1444.2	1441.8	1434.6	1432.2	1434.6	1434.6	1413.0
7.5°	1696.6	1626.9	1550.0	1516.3	1485.1	1487.5	1470.7	1470.7	1468.3	1456.3	1451.5
10°	1816.7	1723.0	1624.5	1564.4	1525.9	1518.7	1501.9	1485.1	1485.1	1485.1	1461.1
12.5°	1948.9	1831.1	1696.6	1626.9	1581.2	1545.2	1518.7	1513.9	1487.5	1482.7	1470.7
15°	2064.2	1915.2	1744.6	1648.5	1590.8	1542.8	1501.9	1475.5	1463.5	1456.3	1446.6
17.5°	2177.2	1987.3	1771.1	1648.5	1586.0	1530.8	1487.5	1463.5	1434.6	1439.4	1420.2
20°	2328.6	2064.2	1778.3	1617.3	1540.4	1487.5	1429.8	1417.8	1401.0	1386.6	1391.4
22.5°	2475.2	2119.5	1756.6	1578.8	1468.3	1405.8	1377.0	1362.5	1355.3	1343.3	1326.5
25°	2607.3	2179.6	1723.0	1509.1	1391.4	1345.7	1319.3	1316.9	1300.1	1300.1	1268.8
27.5°	2741.9	2201.2	1665.3	1427.4	1324.1	1297.7	1285.6	1280.8	1273.6	1256.8	1235.2
30°	2895.7	2208.4	1581.2	1343.3	1264.0	1235.2	1252.0	1264.0	1232.8	1201.5	1211.1
32.5°	3023.1	2191.6	1480.3	1264.0	1220.8	1206.3	1240.0	1252.0	1215.9	1182.3	1165.5
35°	3176.8	2150.7	1381.8	1201.5	1177.5	1206.3	1235.2	1235.2	1163.1	1122.2	1112.6
37.5°	3409.9	2105.1	1290.4	1148.7	1131.8	1191.9	1230.4	1203.9	1091.0	1040.5	1028.5
40°	3659.9	2076.2	1201.5	1095.8	1107.8	1167.9	1189.5	1107.8	992.5	961.2	951.6
42.5°	4022.7	2018.6	1122.2	1050.1	1086.2	1134.2	1134.2	987.7	944.4	927.6	925.2
45°	4474.5	1977.7	1052.5	1011.7	1054.9	1067.0	1028.5	925.2	893.9	889.1	891.5
47.5°	4695.6	1898.4	980.4	966.0	997.3	999.7	898.7	874.7	848.3	841.1	836.3
50°	4661.9	1756.6	886.7	906.0	949.2	925.2	819.4	824.3	800.2	797.8	785.8
52.5°	4426.4	1533.2	793.0	838.7	886.7	817.0	754.6	749.8	749.8	718.5	706.5
55°	3924.2	1235.2	680.1	737.7	795.4	687.3	670.5	665.6	653.6	624.8	617.6
57.5°	3107.2	906.0	511.9	574.3	675.3	583.9	581.5	559.9	528.7	507.0	507.0
60°	1848.0	521.5	322.0	350.8	447.0	473.4	526.3	516.7	463.8	430.1	420.5
62.5°	843.5	269.1	204.3	209.1	240.3	307.6	413.3	478.2	403.7	346.0	341.2
65°	283.6	199.5	168.2	161.0	165.8	185.0	247.5	338.8	322.0	266.7	257.1
67.5°	173.0	177.8	158.6	146.6	146.6	144.2	141.8	153.8	189.8	185.0	187.4
70°	149.0	163.4	146.6	132.2	127.4	120.2	100.9	84.1	72.1	84.1	88.9
72.5°	120.2	129.8	125.0	112.9	100.9	91.3	72.1	55.3	40.9	36.0	36.0
75°	88.9	96.1	100.9	86.5	76.9	64.9	52.9	36.0	21.6	14.4	14.4
77.5°	64.9	72.1	74.5	67.3	57.7	45.7	33.6	24.0	12.0	4.8	4.8
80°	55.3	64.9	72.1	67.3	60.1	43.3	31.2	16.8	9.6	2.4	2.4
82.5°	52.9	64.9	72.1	64.9	57.7	40.9	31.2	19.2	7.2	2.4	2.4
85°	12.0	16.8	21.6	26.4	31.2	31.2	24.0	14.4	7.2	2.4	2.4
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	2.4	2.4	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)