

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: P528475

Luminaire Tested: **GALN-SA3C-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528475  
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-SA3C-740-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 13880 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

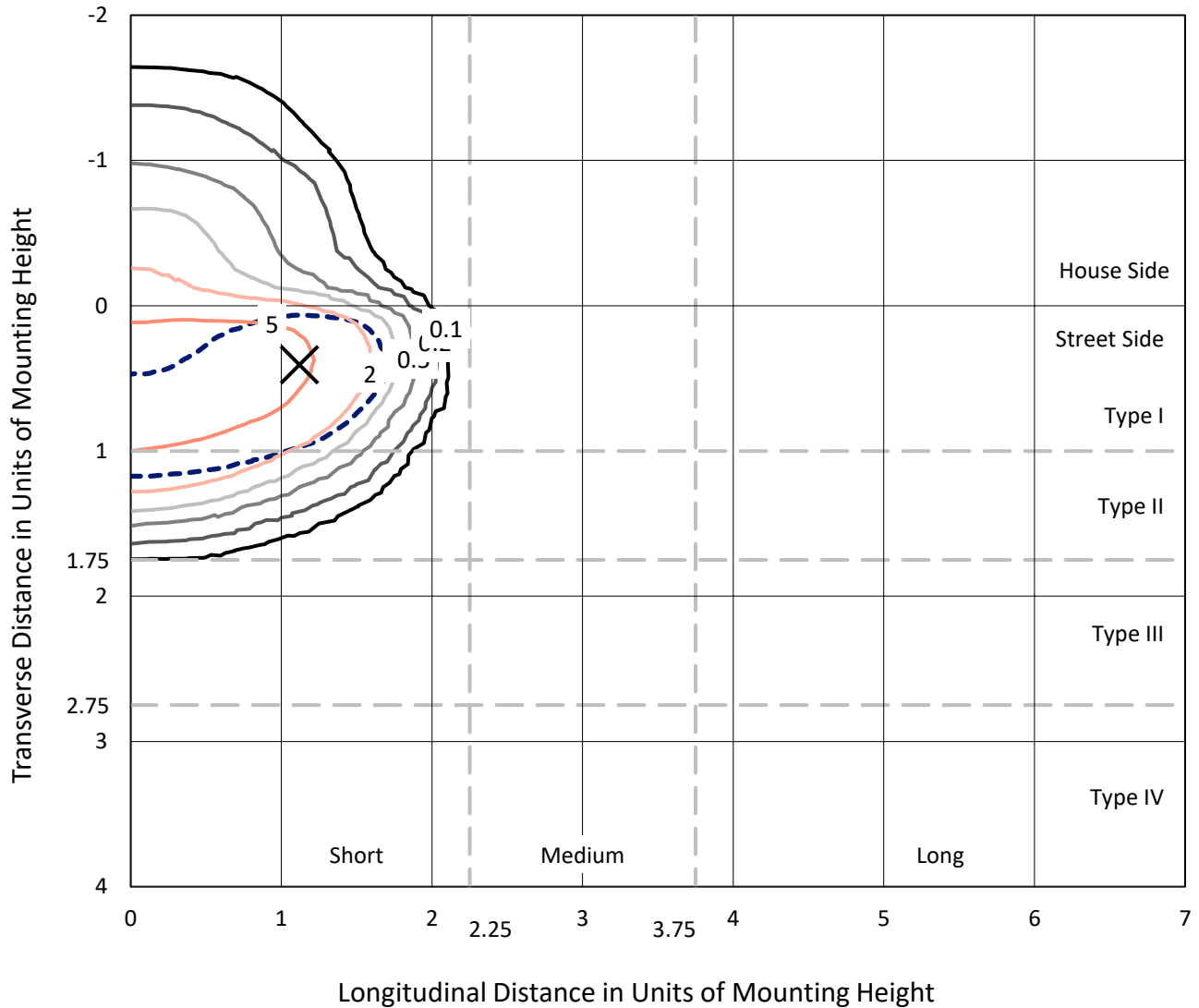
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

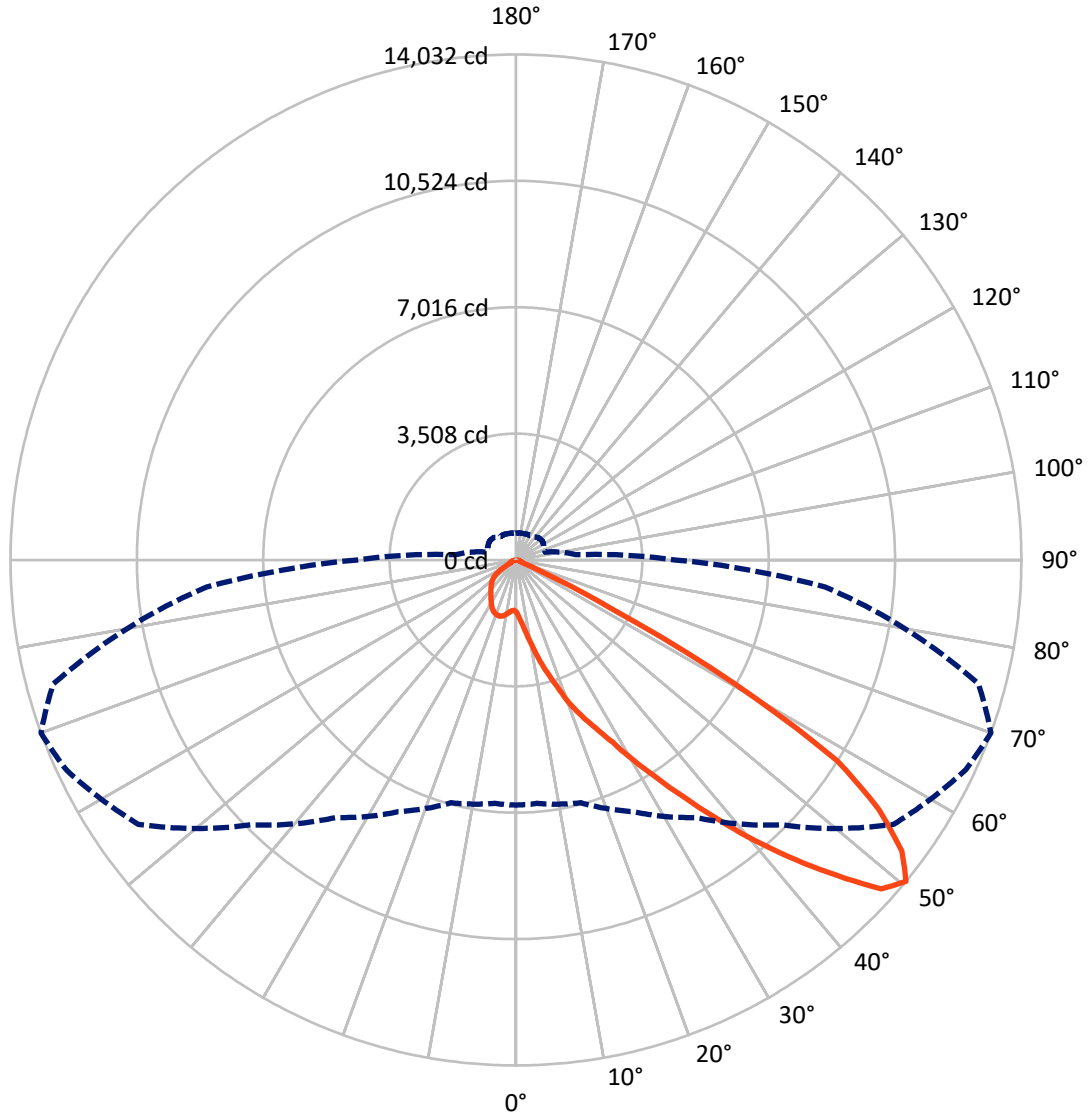
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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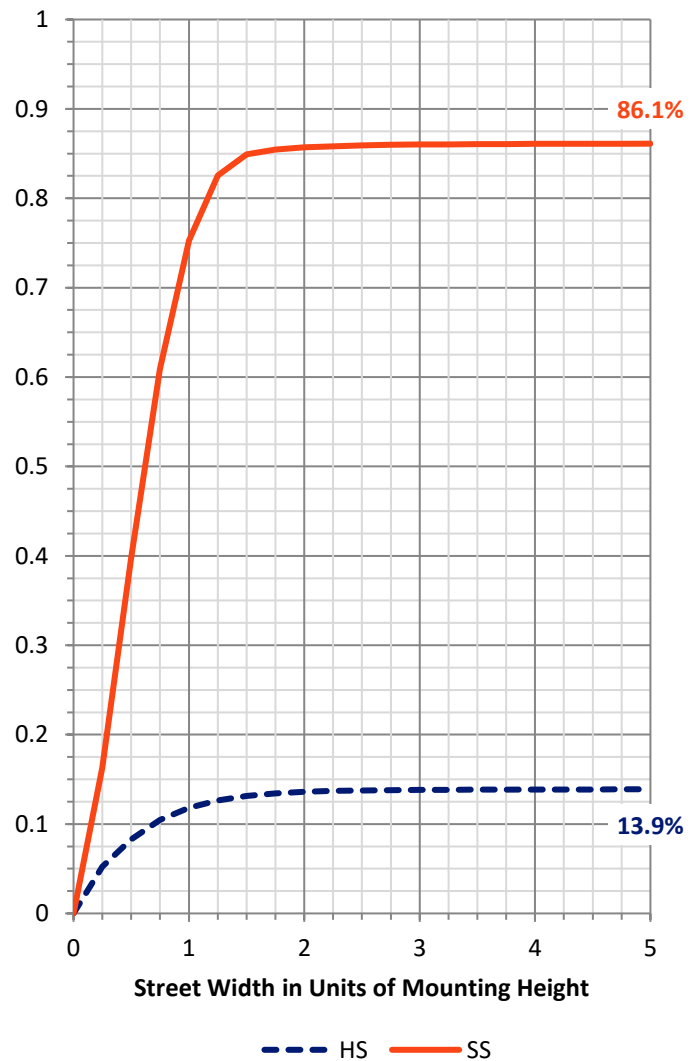
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1938.4	0.0	1938.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11941.6	0.0	11941.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13880.0	0.0	13880.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.0	1.3
10°-20°	808.7	5.8
20°-30°	1696.5	12.2
30°-40°	2924.2	21.1
40°-50°	4273.7	30.8
50°-60°	3328.5	24.0
60°-70°	563.9	4.1
70°-80°	77.5	0.6
80°-90°	20.1	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°	13880.0	100.0
0°-180°	13880.0	100.0



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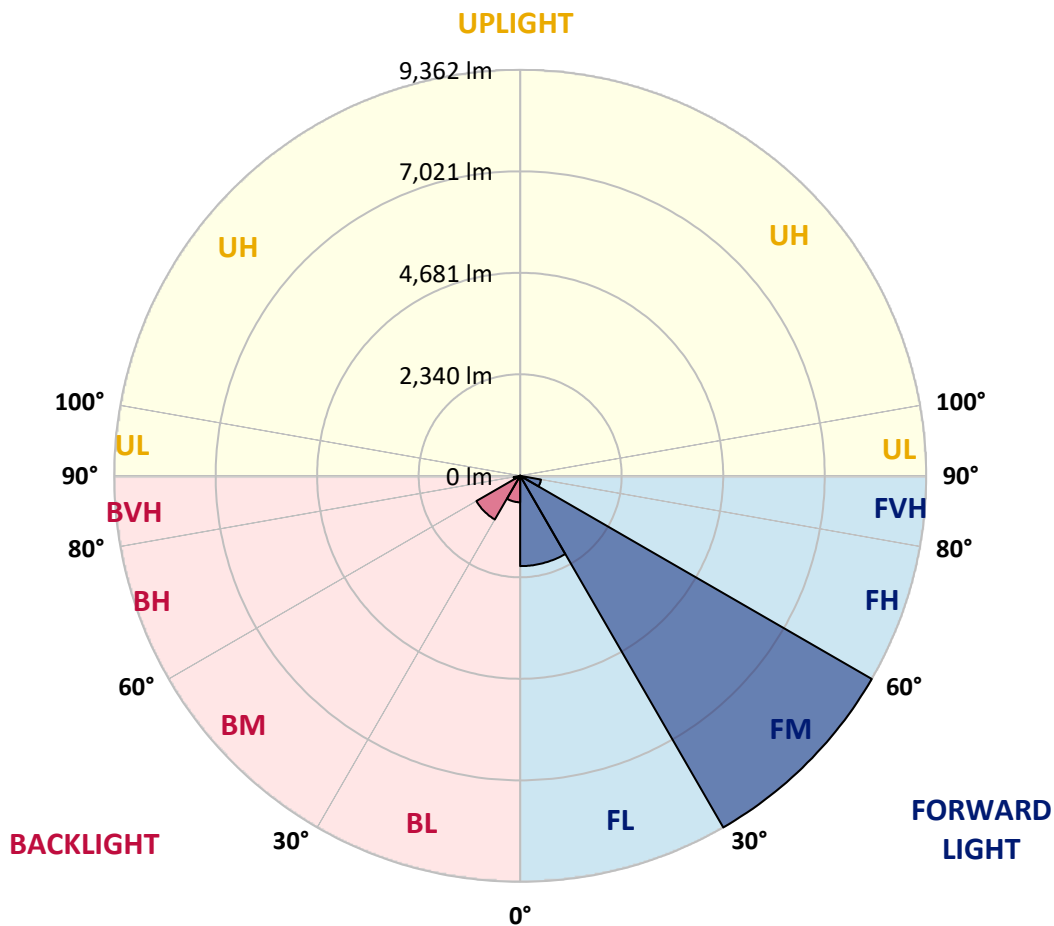
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.2	15.0			
FM (30°-60°)	9361.8	67.4			
FH (60°-80°)	488.3	3.5			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	610.0	4.4	B2/1000		
BM (30°-60°)	1164.5	8.4	B2/2500		
BH (60°-80°)	153.1	1.1	B1/500		G1/500
BVH (80°-90°)	10.8	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°	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7
2.5°	1882.7	1869.0	1839.3	1784.6	1761.7	1707.0	1675.0	1613.4	1574.6	1531.3	1483.3
5°	2651.7	2581.0	2537.6	2476.0	2295.7	2183.9	1999.1	1841.6	1768.6	1688.7	1579.2
7.5°	3445.9	3400.3	3340.9	3208.6	3085.3	2852.6	2535.4	2188.5	2040.2	1903.2	1686.4
10°	4103.1	3975.3	3968.5	3870.4	3735.7	3457.3	3076.2	2644.9	2380.2	2179.4	1839.3
12.5°	4561.8	4445.4	4497.9	4486.5	4361.0	4105.4	3665.0	3094.5	2818.3	2505.7	1996.8
15°	4979.4	4931.5	4915.5	4901.9	4851.6	4662.2	4267.4	3642.2	3242.8	2866.3	2174.8
17.5°	5387.9	5264.7	5324.0	5335.4	5330.9	5159.7	4790.0	4162.5	3692.4	3247.4	2361.9
20°	5750.8	5762.2	5682.3	5666.3	5652.7	5645.8	5285.2	4678.2	4244.6	3646.7	2606.1
22.5°	6216.3	6136.4	6207.2	6161.5	6072.5	6017.8	5741.7	5134.6	4723.9	4128.2	2854.9
25°	6766.3	6830.2	6663.6	6645.3	6547.2	6357.8	6109.1	5645.8	5184.8	4575.5	3124.1
27.5°	7444.1	7332.2	7288.9	7188.5	7010.5	6930.6	6638.5	6173.0	5741.7	5045.6	3384.3
30°	8026.0	7996.3	7779.5	7660.9	7505.7	7503.4	7094.9	6887.2	6467.3	5782.7	3742.6
32.5°	8500.7	8370.6	8290.7	8208.6	8083.0	8117.3	7772.7	7663.1	7241.0	6467.3	4164.8
35°	8817.9	8724.3	8676.4	8550.9	8514.3	8667.2	8523.5	8477.8	8131.0	7430.4	4660.0
37.5°	8918.3	8947.9	8938.8	8781.3	8858.9	9272.0	9456.8	9338.2	9155.6	8445.9	5196.2
40°	9007.3	9027.8	8982.2	9167.0	9388.4	9858.5	10527.1	10330.9	10262.4	9475.1	5942.5
42.5°	9057.5	9041.5	9041.5	9361.0	9696.5	10641.2	11560.9	11430.8	11378.3	10570.5	6805.1
45°	8840.7	8685.5	8852.1	9285.7	9961.2	11026.9	12387.0	12567.3	12492.0	11873.5	7813.8
47.5°	8030.6	8126.4	8220.0	8799.6	9639.4	10908.2	12893.6	13507.5	13646.7	12968.9	8475.6
50°	6805.1	6784.5	6978.5	7708.8	8728.9	10397.0	12795.5	13779.0	14032.4	13297.5	8614.8
52.5°	4949.8	5100.4	5310.3	6036.0	7245.5	9073.5	11528.9	13078.5	13416.2	12893.6	8523.5
55°	2882.2	2715.6	3188.0	3801.9	4942.9	6843.9	9746.7	11592.8	12218.1	12158.8	8062.5
57.5°	1154.7	1118.2	1280.2	1725.2	2578.7	4242.3	7088.1	9525.3	10527.1	11136.4	7085.8
60°	506.6	495.2	581.9	702.9	1054.3	1955.7	3877.2	5924.2	6969.4	7781.8	4876.8
62.5°	365.1	360.6	403.9	447.3	556.8	851.2	1629.4	2387.0	2975.8	3594.2	2183.9
65°	294.4	305.8	335.5	358.3	410.8	472.4	575.1	664.1	814.7	844.4	481.5
67.5°	239.6	248.7	276.1	301.2	310.4	255.6	264.7	232.8	232.8	207.7	166.6
70°	175.7	178.0	209.9	239.6	191.7	102.7	180.3	180.3	162.0	155.2	141.5
72.5°	130.1	132.4	157.5	148.3	75.3	63.9	132.4	146.1	132.4	125.5	114.1
75°	95.8	98.1	82.2	34.2	31.9	41.1	77.6	100.4	95.8	93.6	86.7
77.5°	18.3	13.7	11.4	16.0	22.8	34.2	50.2	61.6	63.9	68.5	63.9
80°	2.3	2.3	6.8	13.7	25.1	36.5	52.5	59.3	61.6	63.9	59.3
82.5°	0.0	2.3	6.8	13.7	25.1	34.2	45.6	52.5	57.1	59.3	57.1
85°	0.0	2.3	4.6	11.4	20.5	25.1	22.8	16.0	13.7	16.0	11.4
87.5°	0.0	0.0	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7	1437.7
2.5°	1456.0	1446.8	1414.9	1380.6	1351.0	1364.7	1351.0	1339.6	1344.1	1339.6	1335.0
5°	1535.8	1494.7	1426.3	1396.6	1371.5	1369.2	1362.4	1360.1	1362.4	1362.4	1341.8
7.5°	1611.1	1545.0	1471.9	1440.0	1410.3	1412.6	1396.6	1396.6	1394.3	1382.9	1378.4
10°	1725.2	1636.2	1542.7	1485.6	1449.1	1442.3	1426.3	1410.3	1410.3	1410.3	1387.5
12.5°	1850.7	1738.9	1611.1	1545.0	1501.6	1467.4	1442.3	1437.7	1412.6	1408.0	1396.6
15°	1960.3	1818.8	1656.8	1565.5	1510.7	1465.1	1426.3	1401.2	1389.8	1382.9	1373.8
17.5°	2067.5	1887.3	1681.9	1565.5	1506.2	1453.7	1412.6	1389.8	1362.4	1367.0	1348.7
20°	2211.3	1960.3	1688.7	1535.8	1462.8	1412.6	1357.8	1346.4	1330.4	1316.7	1321.3
22.5°	2350.5	2012.8	1668.2	1499.3	1394.3	1335.0	1307.6	1293.9	1287.1	1275.7	1259.7
25°	2476.0	2069.8	1636.2	1433.1	1321.3	1278.0	1252.8	1250.6	1234.6	1234.6	1204.9
27.5°	2603.8	2090.4	1581.5	1355.5	1257.4	1232.3	1220.9	1216.3	1209.5	1193.5	1173.0
30°	2749.9	2097.2	1501.6	1275.7	1200.4	1173.0	1189.0	1200.4	1170.7	1141.0	1150.2
32.5°	2870.8	2081.2	1405.7	1200.4	1159.3	1145.6	1177.5	1189.0	1154.7	1122.8	1106.8
35°	3016.9	2042.4	1312.2	1141.0	1118.2	1145.6	1173.0	1173.0	1104.5	1065.7	1056.6
37.5°	3238.2	1999.1	1225.5	1090.8	1074.8	1131.9	1168.4	1143.3	1036.1	988.1	976.7
40°	3475.6	1971.7	1141.0	1040.6	1052.0	1109.1	1129.6	1052.0	942.5	912.8	903.7
42.5°	3820.2	1916.9	1065.7	997.3	1031.5	1077.1	1077.1	937.9	896.8	880.9	878.6
45°	4249.2	1878.1	999.5	960.7	1001.8	1013.2	976.7	878.6	848.9	844.4	846.6
47.5°	4459.1	1802.8	931.1	917.4	947.1	949.3	853.5	830.7	805.6	798.7	794.2
50°	4427.2	1668.2	842.1	860.3	901.4	878.6	778.2	782.7	759.9	757.6	746.2
52.5°	4203.5	1456.0	753.1	796.4	842.1	775.9	716.6	712.0	712.0	682.3	670.9
55°	3726.6	1173.0	645.8	700.6	755.4	652.7	636.7	632.1	620.7	593.3	586.5
57.5°	2950.7	860.3	486.1	545.4	641.3	554.5	552.3	531.7	502.1	481.5	481.5
60°	1754.9	495.2	305.8	333.2	424.5	449.6	499.8	490.6	440.4	408.5	399.4
62.5°	801.0	255.6	194.0	198.5	228.2	292.1	392.5	454.1	383.4	328.6	324.1
65°	269.3	189.4	159.7	152.9	157.5	175.7	235.1	321.8	305.8	253.3	244.2
67.5°	164.3	168.9	150.6	139.2	139.2	136.9	134.6	146.1	180.3	175.7	178.0
70°	141.5	155.2	139.2	125.5	120.9	114.1	95.8	79.9	68.5	79.9	84.4
72.5°	114.1	123.2	118.7	107.3	95.8	86.7	68.5	52.5	38.8	34.2	34.2
75°	84.4	91.3	95.8	82.2	73.0	61.6	50.2	34.2	20.5	13.7	13.7
77.5°	61.6	68.5	70.7	63.9	54.8	43.4	31.9	22.8	11.4	4.6	4.6
80°	52.5	61.6	68.5	63.9	57.1	41.1	29.7	16.0	9.1	2.3	2.3
82.5°	50.2	61.6	68.5	61.6	54.8	38.8	29.7	18.3	6.8	2.3	2.3
85°	11.4	16.0	20.5	25.1	29.7	29.7	22.8	13.7	6.8	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	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)