

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: P528423

Luminaire Tested: **GALN-SA3C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528423  
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-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 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: 12641 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

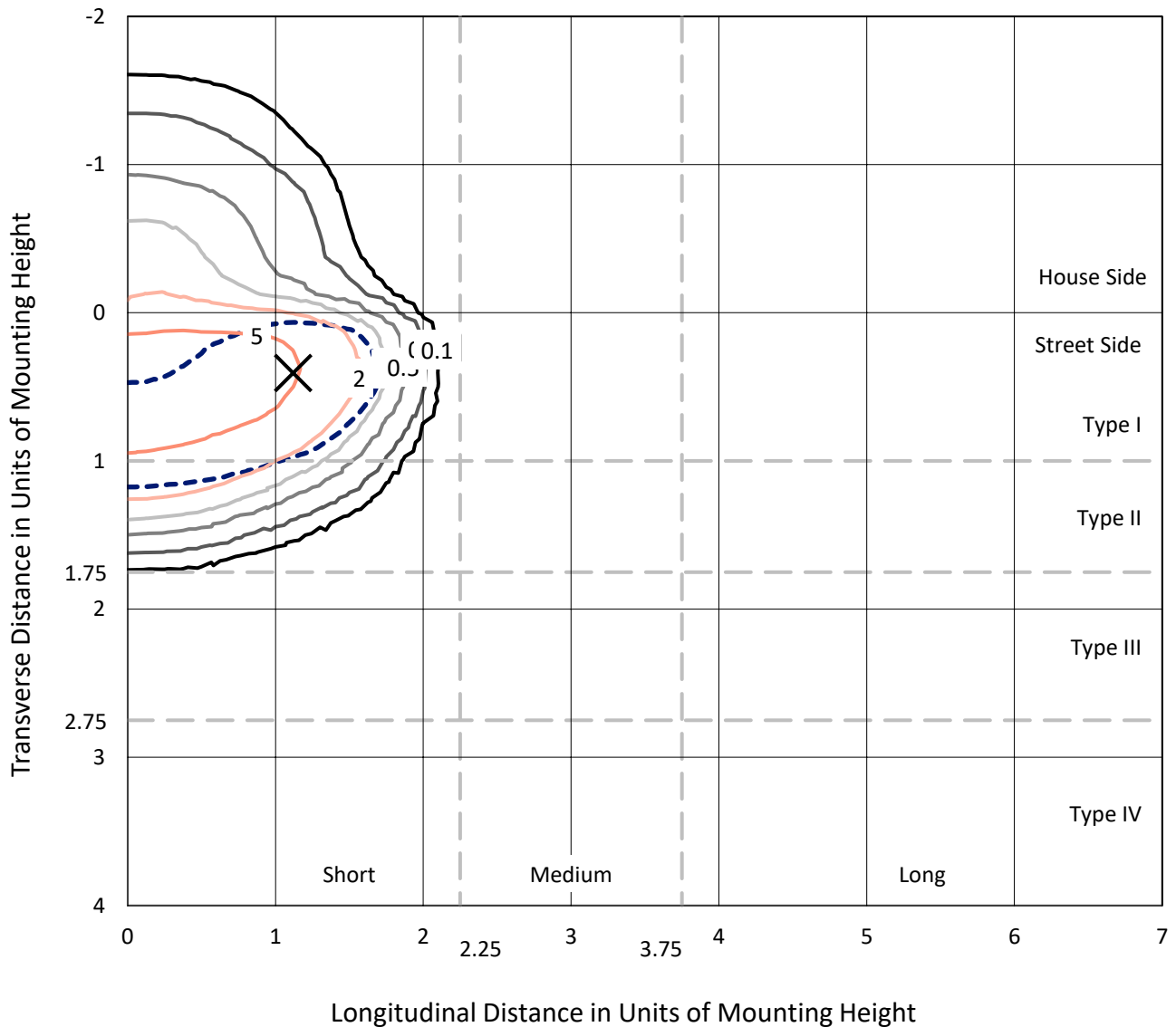
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

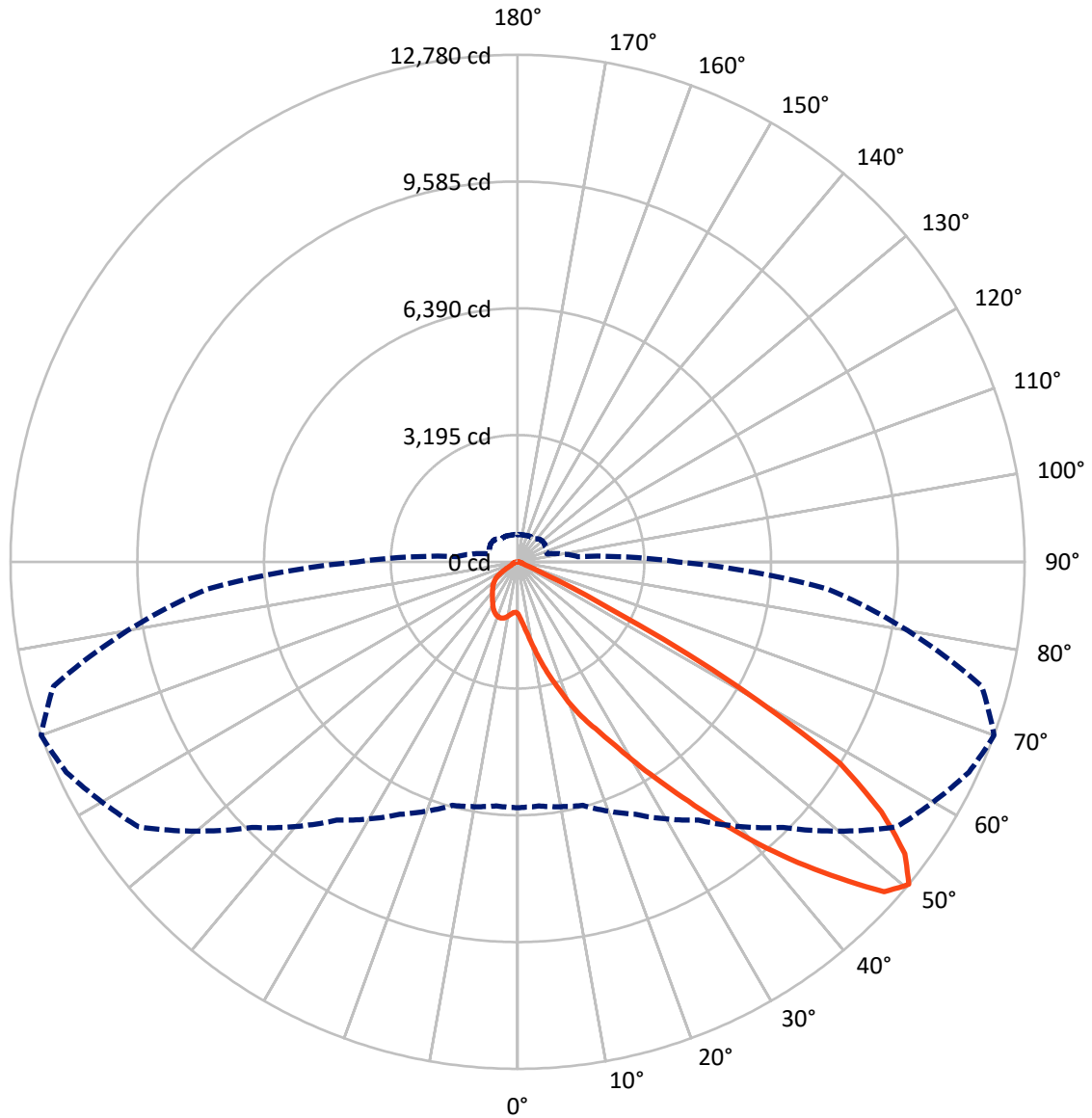
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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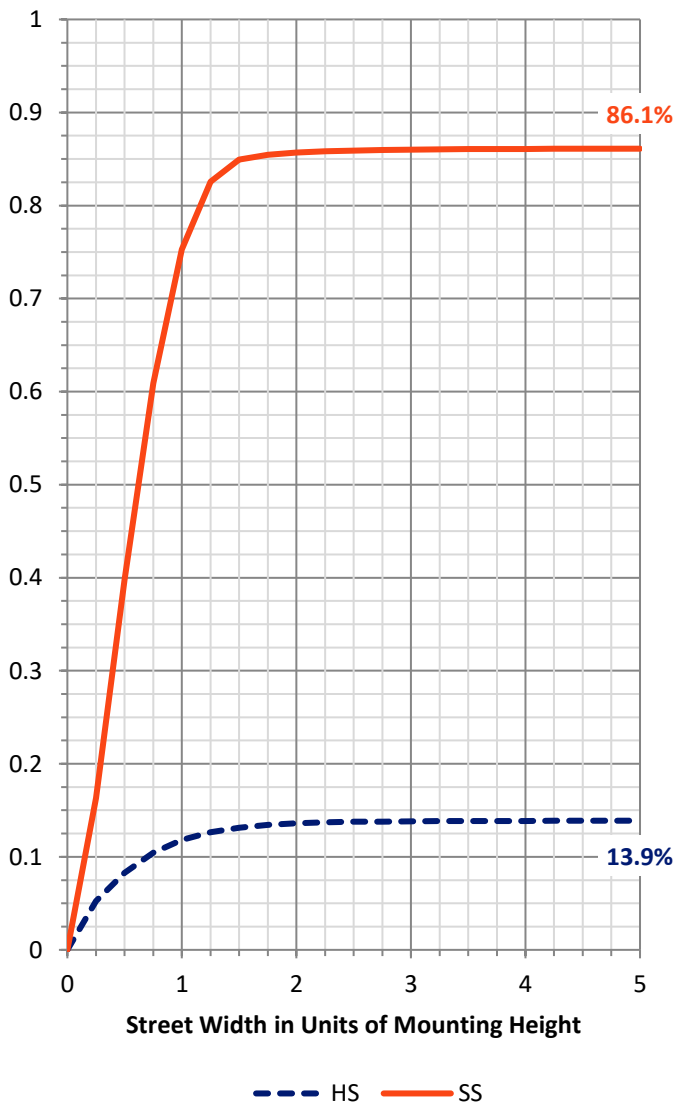
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1765.4	0.0	1765.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10875.6	0.0	10875.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	12641.0	0.0	12641.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	1.3
10°-20°	736.5	5.8
20°-30°	1545.1	12.2
30°-40°	2663.2	21.1
40°-50°	3892.2	30.8
50°-60°	3031.4	24.0
60°-70°	513.6	4.1
70°-80°	70.6	0.6
80°-90°	18.3	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°	12641.0	100.0
0°-180°	12641.0	100.0

**Coefficient of Utilization**

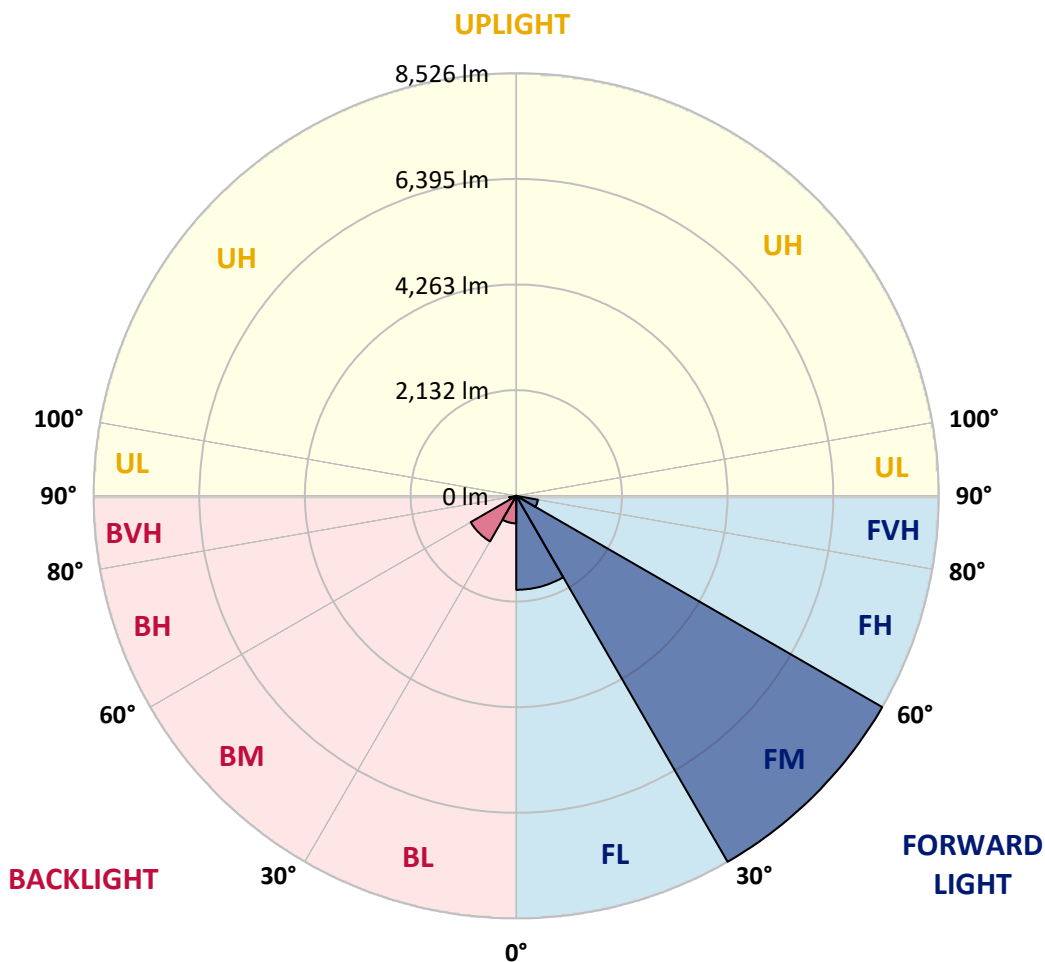


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1896.3	15.0			
FM (30°-60°)	8526.1	67.4			
FH (60°-80°)	444.7	3.5			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	555.5	4.4	B2/1000		
BM (30°-60°)	1060.6	8.4	B2/2500		
BH (60°-80°)	139.5	1.1	B1/500		G1/500
BVH (80°-90°)	9.8	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1714.6	1702.2	1675.1	1625.3	1604.5	1554.6	1525.5	1469.4	1434.1	1394.6	1350.9
5°	2415.0	2350.6	2311.1	2255.0	2090.8	1989.0	1820.6	1677.2	1610.7	1538.0	1438.2
7.5°	3138.3	3096.7	3042.7	2922.2	2809.9	2597.9	2309.0	1993.1	1858.0	1733.3	1535.9
10°	3736.9	3620.5	3614.2	3524.9	3402.3	3148.7	2801.6	2408.8	2167.7	1984.8	1675.1
12.5°	4154.6	4048.6	4096.4	4086.0	3971.7	3738.9	3337.8	2818.2	2566.8	2282.0	1818.6
15°	4535.0	4491.3	4476.8	4464.3	4418.6	4246.1	3886.5	3317.0	2953.3	2610.4	1980.7
17.5°	4907.0	4794.7	4848.8	4859.2	4855.0	4699.1	4362.5	3790.9	3362.8	2957.5	2151.1
20°	5237.4	5247.8	5175.1	5160.5	5148.1	5141.8	4813.5	4260.6	3865.7	3321.2	2373.5
22.5°	5661.4	5588.7	5653.1	5611.5	5530.5	5480.6	5229.1	4676.3	4302.2	3759.7	2600.0
25°	6162.3	6220.5	6068.8	6052.1	5962.8	5790.3	5563.7	5141.8	4722.0	4167.1	2845.3
27.5°	6779.6	6677.7	6638.2	6546.8	6384.7	6311.9	6045.9	5621.9	5229.1	4595.2	3082.2
30°	7309.5	7282.5	7085.1	6977.0	6835.7	6833.6	6461.6	6272.5	5890.0	5266.5	3408.5
32.5°	7741.8	7623.4	7550.6	7475.8	7361.5	7392.7	7078.9	6979.1	6594.6	5890.0	3793.0
35°	8030.7	7945.5	7901.9	7787.6	7754.3	7893.6	7762.6	7721.1	7405.2	6767.1	4244.0
37.5°	8122.2	8149.2	8140.9	7997.5	8068.1	8444.3	8612.7	8504.6	8338.3	7692.0	4732.4
40°	8203.2	8221.9	8180.4	8348.7	8550.3	8978.5	9587.4	9408.7	9346.3	8629.3	5412.0
42.5°	8249.0	8234.4	8234.4	8525.4	8830.9	9691.3	10528.9	10410.4	10362.6	9626.9	6197.6
45°	8051.5	7910.2	8061.9	8456.8	9072.0	10042.6	11281.3	11445.5	11376.9	10813.6	7116.3
47.5°	7313.7	7401.0	7486.2	8014.1	8778.9	9934.5	11742.7	12301.7	12428.5	11811.2	7719.0
50°	6197.6	6178.9	6355.6	7020.7	7949.7	9468.9	11653.3	12549.1	12779.8	12110.5	7845.8
52.5°	4507.9	4645.1	4836.3	5497.2	6598.8	8263.5	10499.8	11911.0	12218.6	11742.7	7762.6
55°	2625.0	2473.2	2903.5	3462.5	4501.7	6233.0	8876.6	10558.0	11127.5	11073.4	7342.8
57.5°	1051.6	1018.4	1166.0	1571.2	2348.5	3863.6	6455.3	8675.0	9587.4	10142.3	6453.3
60°	461.4	451.0	530.0	640.1	960.2	1781.1	3531.1	5395.4	6347.3	7087.2	4441.4
62.5°	332.5	328.4	367.9	407.4	507.1	775.2	1483.9	2174.0	2710.2	3273.4	1989.0
65°	268.1	278.5	305.5	326.3	374.1	430.2	523.7	604.8	742.0	769.0	438.5
67.5°	218.2	226.5	251.5	274.3	282.7	232.8	241.1	212.0	212.0	189.1	151.7
70°	160.0	162.1	191.2	218.2	174.6	93.5	164.2	164.2	147.6	141.3	128.9
72.5°	118.5	120.5	143.4	135.1	68.6	58.2	120.5	133.0	120.5	114.3	103.9
75°	87.3	89.4	74.8	31.2	29.1	37.4	70.7	91.4	87.3	85.2	79.0
77.5°	16.6	12.5	10.4	14.5	20.8	31.2	45.7	56.1	58.2	62.4	58.2
80°	2.1	2.1	6.2	12.5	22.9	33.3	47.8	54.0	56.1	58.2	54.0
82.5°	0.0	2.1	6.2	12.5	22.9	31.2	41.6	47.8	52.0	54.0	52.0
85°	0.0	2.1	4.2	10.4	18.7	22.9	20.8	14.5	12.5	14.5	10.4
87.5°	0.0	0.0	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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°	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1326.0	1317.7	1288.6	1257.4	1230.4	1242.9	1230.4	1220.0	1224.1	1220.0	1215.8
5°	1398.7	1361.3	1299.0	1271.9	1249.1	1247.0	1240.8	1238.7	1240.8	1240.8	1222.1
7.5°	1467.3	1407.0	1340.5	1311.4	1284.4	1286.5	1271.9	1271.9	1269.9	1259.5	1255.3
10°	1571.2	1490.2	1405.0	1353.0	1319.8	1313.5	1299.0	1284.4	1284.4	1284.4	1263.6
12.5°	1685.5	1583.7	1467.3	1407.0	1367.6	1336.4	1313.5	1309.4	1286.5	1282.3	1271.9
15°	1785.3	1656.4	1508.9	1425.7	1375.9	1334.3	1299.0	1276.1	1265.7	1259.5	1251.2
17.5°	1883.0	1718.8	1531.7	1425.7	1371.7	1323.9	1286.5	1265.7	1240.8	1244.9	1228.3
20°	2013.9	1785.3	1538.0	1398.7	1332.2	1286.5	1236.6	1226.2	1211.7	1199.2	1203.4
22.5°	2140.7	1833.1	1519.3	1365.5	1269.9	1215.8	1190.9	1178.4	1172.2	1161.8	1147.2
25°	2255.0	1885.1	1490.2	1305.2	1203.4	1163.9	1141.0	1138.9	1124.4	1124.4	1097.4
27.5°	2371.4	1903.8	1440.3	1234.5	1145.2	1122.3	1111.9	1107.8	1101.5	1087.0	1068.3
30°	2504.4	1910.0	1367.6	1161.8	1093.2	1068.3	1082.8	1093.2	1066.2	1039.2	1047.5
32.5°	2614.6	1895.5	1280.3	1093.2	1055.8	1043.3	1072.4	1082.8	1051.6	1022.5	1008.0
35°	2747.6	1860.1	1195.0	1039.2	1018.4	1043.3	1068.3	1068.3	1005.9	970.6	962.3
37.5°	2949.2	1820.6	1116.1	993.4	978.9	1030.9	1064.1	1041.3	943.6	899.9	889.5
40°	3165.3	1795.7	1039.2	947.7	958.1	1010.1	1028.8	958.1	858.4	831.3	823.0
42.5°	3479.2	1745.8	970.6	908.2	939.4	981.0	981.0	854.2	816.8	802.2	800.2
45°	3869.9	1710.5	910.3	875.0	912.4	922.8	889.5	800.2	773.1	769.0	771.1
47.5°	4061.1	1641.9	848.0	835.5	862.5	864.6	777.3	756.5	733.7	727.4	723.3
50°	4032.0	1519.3	766.9	783.5	820.9	800.2	708.7	712.9	692.1	690.0	679.6
52.5°	3828.3	1326.0	685.9	725.3	766.9	706.6	652.6	648.4	648.4	621.4	611.0
55°	3393.9	1068.3	588.2	638.1	687.9	594.4	579.9	575.7	565.3	540.4	534.1
57.5°	2687.3	783.5	442.7	496.7	584.0	505.0	503.0	484.3	457.2	438.5	438.5
60°	1598.2	451.0	278.5	303.4	386.6	409.4	455.2	446.8	401.1	372.0	363.7
62.5°	729.5	232.8	176.7	180.8	207.8	266.0	357.5	413.6	349.2	299.3	295.1
65°	245.2	172.5	145.5	139.2	143.4	160.0	214.1	293.0	278.5	230.7	222.4
67.5°	149.6	153.8	137.2	126.8	126.8	124.7	122.6	133.0	164.2	160.0	162.1
70°	128.9	141.3	126.8	114.3	110.2	103.9	87.3	72.7	62.4	72.7	76.9
72.5°	103.9	112.2	108.1	97.7	87.3	79.0	62.4	47.8	35.3	31.2	31.2
75°	76.9	83.1	87.3	74.8	66.5	56.1	45.7	31.2	18.7	12.5	12.5
77.5°	56.1	62.4	64.4	58.2	49.9	39.5	29.1	20.8	10.4	4.2	4.2
80°	47.8	56.1	62.4	58.2	52.0	37.4	27.0	14.5	8.3	2.1	2.1
82.5°	45.7	56.1	62.4	56.1	49.9	35.3	27.0	16.6	6.2	2.1	2.1
85°	10.4	14.5	18.7	22.9	27.0	27.0	20.8	12.5	6.2	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	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)