

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: P652256

Luminaire Tested: **GALN-SA2B-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6961.8 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

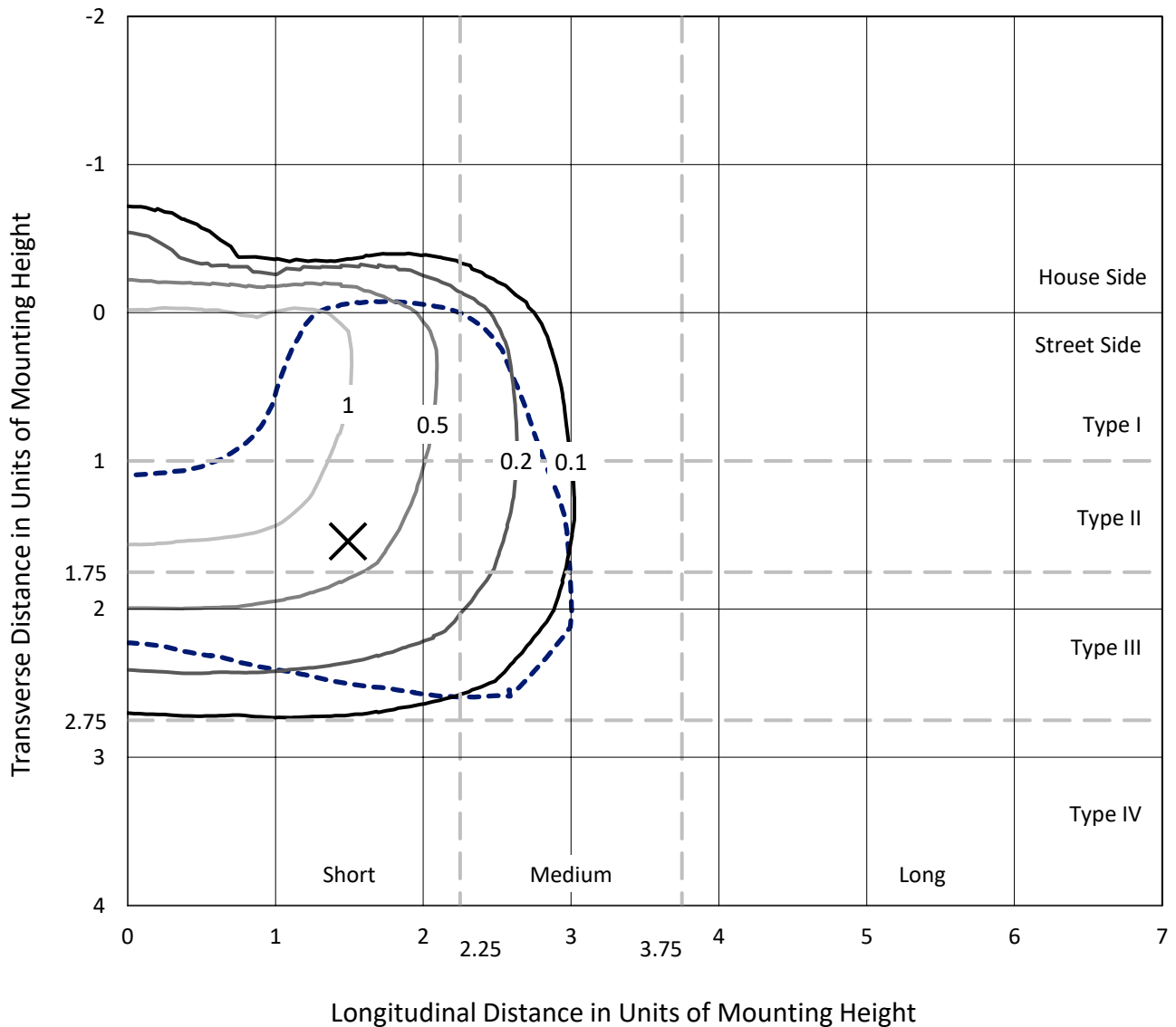
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

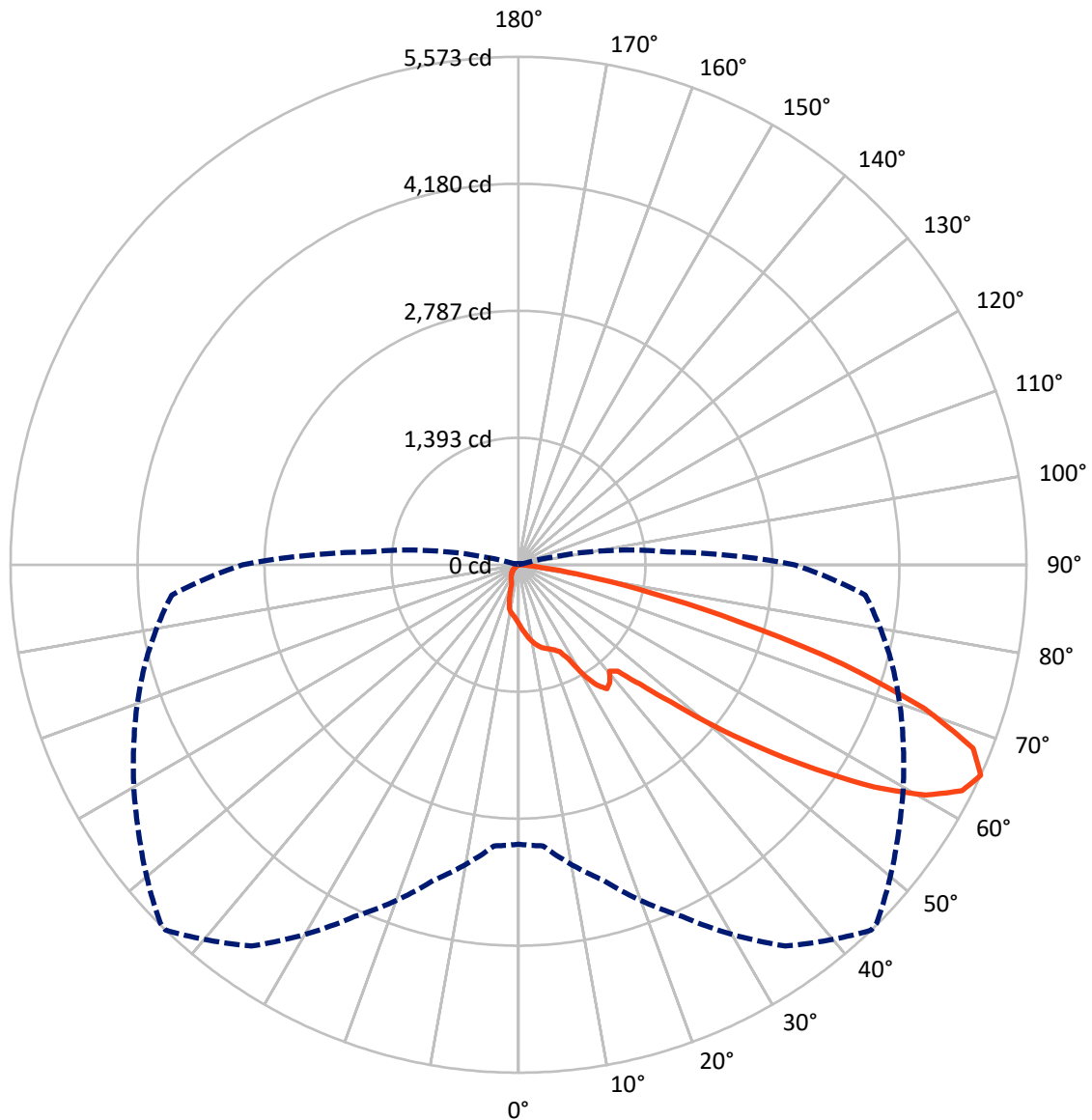
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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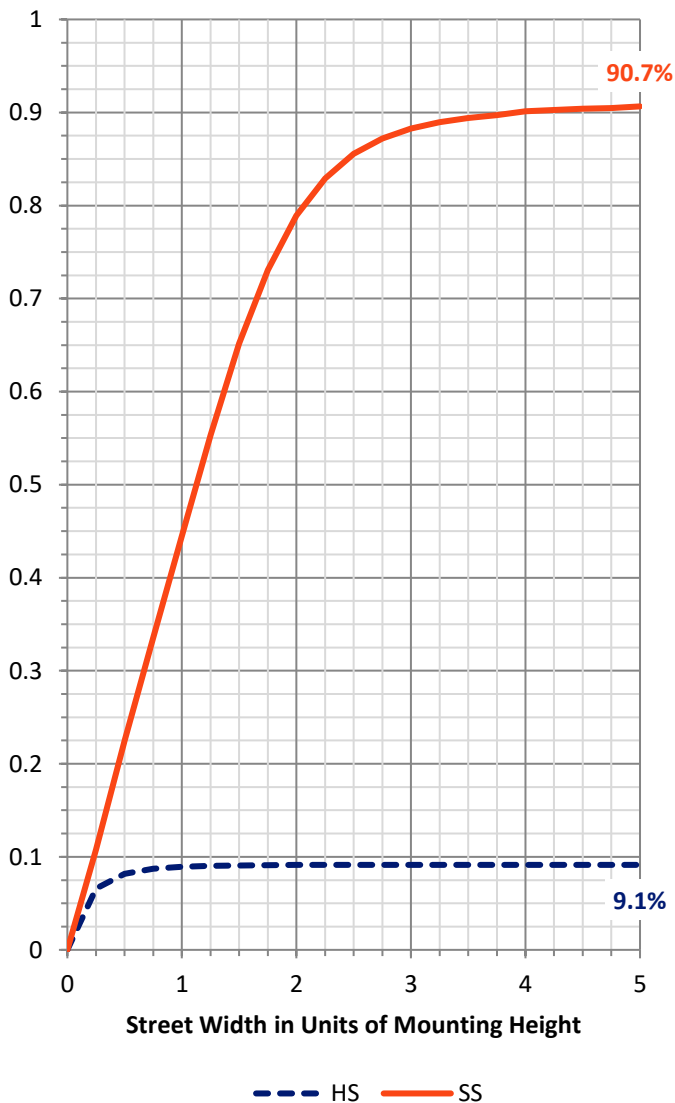
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	641.4	0.0	641.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	6320.4	0.0	6320.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	6961.8	0.0	6961.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	0.9
10°-20°	194.0	2.8
20°-30°	328.9	4.7
30°-40°	546.8	7.9
40°-50°	954.8	13.7
50°-60°	1865.2	26.8
60°-70°	2164.1	31.1
70°-80°	788.1	11.3
80°-90°	55.5	0.8
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°	6961.8	100.0
0°-180°	6961.8	100.0

**Coefficient of Utilization**



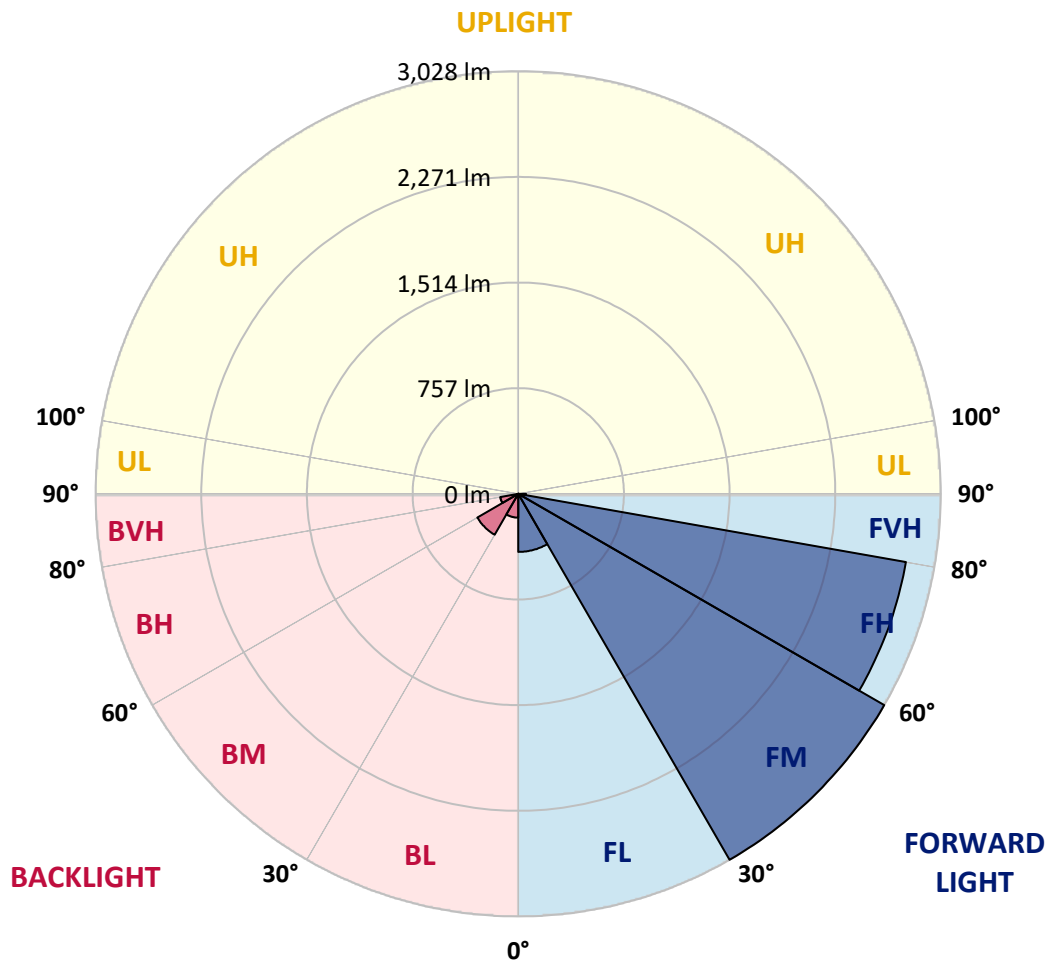
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.4	6.0			
FM (30°-60°)	3028.4	43.5			
FH (60°-80°)	2820.8	40.5			G2/5000
FVH (80°-90°)	54.8	0.8			G1/100
BL (0°-30°)	170.9	2.5	B1/500		
BM (30°-60°)	338.4	4.9	B1/1000		
BH (60°-80°)	131.4	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	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°	44°	45°	55°	65°	75°	85°
0°	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9
2.5°	729.3	726.1	724.5	716.0	709.6	701.6	701.6	691.6	679.9	667.1	655.4
5°	810.7	805.4	798.4	791.0	776.2	754.9	754.9	733.6	709.1	687.3	663.4
7.5°	888.9	884.1	872.5	858.1	833.6	811.2	809.6	778.8	749.6	716.5	682.6
10°	957.6	953.8	943.7	916.0	890.5	861.3	860.8	826.1	792.1	751.7	709.6
12.5°	1005.4	1005.9	992.6	966.1	933.1	905.4	903.3	869.3	833.6	790.0	738.4
15°	1039.5	1039.5	1025.6	995.8	966.1	941.6	939.5	909.6	873.0	825.6	769.8
17.5°	1049.1	1052.3	1037.4	1010.7	986.8	965.6	965.0	940.0	910.7	865.0	801.6
20°	1045.3	1048.5	1036.8	1016.1	999.5	987.3	985.7	975.6	948.5	905.4	835.7
22.5°	1037.4	1040.6	1032.0	1019.8	1011.8	1015.5	1012.9	1021.4	1007.0	954.9	876.2
25°	1039.0	1042.1	1035.8	1028.8	1035.8	1058.7	1065.5	1102.2	1089.4	1017.7	919.8
27.5°	1088.9	1095.3	1086.2	1089.4	1113.9	1167.1	1180.4	1243.8	1187.3	1097.4	987.8
30°	1200.1	1195.9	1178.8	1194.3	1279.4	1392.2	1388.4	1378.3	1290.0	1189.5	1068.7
32.5°	1301.2	1297.5	1296.4	1362.9	1517.2	1572.0	1569.3	1471.4	1382.0	1294.8	1148.6
35°	1342.2	1327.8	1324.6	1485.8	1743.8	1671.4	1654.9	1509.8	1493.8	1409.7	1229.9
37.5°	1465.6	1455.4	1406.0	1506.0	1653.3	1629.4	1616.7	1575.7	1613.0	1511.3	1322.0
40°	1719.8	1691.7	1646.9	1549.1	1525.2	1535.2	1548.0	1660.3	1753.9	1650.1	1444.8
42.5°	2035.8	2029.4	1946.5	1764.0	1584.7	1598.6	1615.1	1836.9	1956.6	1859.2	1645.3
45°	2415.1	2424.2	2304.5	2089.0	1853.9	1865.6	1889.6	2097.5	2231.1	2184.2	1960.8
47.5°	2759.8	2752.9	2712.5	2488.5	2271.5	2245.5	2284.2	2432.2	2610.9	2618.4	2352.4
50°	3106.7	3143.4	3083.3	2995.5	2834.3	2779.5	2765.1	2837.5	3109.8	3074.3	2822.6
52.5°	3605.1	3624.3	3511.5	3489.1	3525.9	3348.2	3333.8	3351.4	3595.0	3472.7	3174.8
55°	3918.5	3907.3	3865.2	4039.7	4185.0	3963.1	3945.0	3874.3	3997.7	3754.1	3513.6
57.5°	4017.4	4033.4	4131.2	4446.7	4790.3	4602.0	4569.1	4368.0	4288.2	4016.4	3825.4
60°	3973.2	4002.5	4213.7	4682.9	5159.5	5131.4	5103.2	4765.4	4496.7	4235.5	4044.0
62.5°	3658.9	3699.8	4037.6	4640.9	5284.6	5460.6	5425.5	5013.3	4635.6	4341.9	4082.3
65°	3066.3	3096.6	3581.7	4259.5	5106.9	5573.4	5560.7	5090.9	4657.4	4244.5	3820.1
67.5°	2185.8	2289.0	2738.5	3589.7	4581.3	5380.9	5402.7	4997.8	4452.6	3823.8	3163.6
70°	1374.1	1444.2	1766.7	2569.9	3672.7	4720.7	4792.5	4571.8	3864.2	2980.6	2117.7
72.5°	655.4	707.5	937.3	1626.7	2592.3	3714.2	3771.1	3753.0	2988.1	1877.9	1092.6
75°	292.1	311.8	447.4	830.4	1673.6	2496.5	2643.9	2668.3	1867.2	918.7	425.0
77.5°	148.9	149.4	209.6	402.2	835.7	1489.5	1518.8	1604.4	1012.3	404.9	147.8
80°	79.2	84.6	111.2	189.9	433.5	733.6	729.8	802.2	449.0	198.4	49.5
82.5°	35.7	39.4	62.7	99.5	211.8	278.2	300.1	328.2	192.6	126.6	21.8
85°	10.7	12.8	30.9	50.0	76.6	80.3	89.9	116.0	109.1	89.9	11.2
87.5°	1.6	1.6	12.8	13.8	11.2	14.4	14.9	16.5	35.1	33.0	5.9
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°	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9	647.9
2.5°	649.0	645.3	632.0	620.8	611.2	605.4	598.5	594.2	592.1	590.5	591.1
5°	651.7	642.6	619.7	601.7	587.9	572.9	562.8	557.0	554.3	550.0	550.0
7.5°	666.6	652.2	620.2	592.7	568.7	548.4	529.3	522.4	517.6	516.5	515.4
10°	687.9	669.8	626.1	587.9	553.8	526.1	499.0	475.1	456.4	445.2	443.6
12.5°	714.4	688.4	635.2	584.7	541.0	492.1	420.2	371.8	339.4	329.3	330.8
15°	738.9	710.7	644.2	582.0	517.6	408.1	326.6	271.3	254.8	253.2	253.7
17.5°	768.2	734.6	654.9	578.3	453.2	311.8	242.5	227.7	230.9	236.2	235.6
20°	798.4	760.2	667.6	555.9	361.7	234.6	214.4	216.0	220.8	225.6	226.6
22.5°	830.9	789.4	682.6	502.2	276.1	204.3	203.2	205.4	210.2	215.5	216.5
25°	875.6	826.1	693.7	431.9	209.1	188.9	191.0	194.7	199.0	204.8	205.9
27.5°	933.1	875.6	699.5	340.4	180.9	175.0	175.5	180.9	186.2	191.5	191.5
30°	1007.5	934.7	687.9	257.4	167.0	161.7	159.6	162.8	169.7	175.0	175.5
32.5°	1074.0	990.5	657.0	196.8	156.9	149.4	144.1	144.7	147.3	150.5	151.0
35°	1140.6	1044.8	604.3	165.4	146.2	137.8	129.8	125.6	123.4	121.9	123.4
37.5°	1225.7	1112.3	534.1	150.5	137.3	126.6	115.5	106.4	99.0	94.2	95.2
40°	1335.3	1206.0	451.1	141.0	128.8	116.0	101.1	89.4	76.6	72.3	70.2
42.5°	1516.1	1348.0	363.9	133.0	120.3	104.8	86.2	70.2	58.5	54.2	55.3
45°	1801.8	1527.3	280.3	124.5	111.7	92.6	72.3	55.3	45.8	43.6	44.7
47.5°	2180.5	1759.2	216.0	114.9	101.1	79.2	56.9	43.6	37.8	37.3	36.7
50°	2537.0	1975.2	180.3	104.3	88.3	65.9	46.8	36.7	33.0	32.5	32.5
52.5°	2859.3	2130.0	146.8	92.0	74.5	54.2	39.4	32.5	29.3	27.7	27.7
55°	3146.0	2231.1	119.2	77.1	58.5	43.1	34.1	29.3	25.6	23.4	22.9
57.5°	3362.6	2243.3	89.4	61.7	43.6	33.6	29.3	25.6	21.3	18.6	17.6
60°	3455.2	2137.4	65.9	46.8	32.5	26.6	23.4	20.8	16.0	13.3	12.8
62.5°	3362.1	1931.6	48.9	35.7	25.0	19.7	16.5	15.4	11.2	8.0	7.5
65°	3028.5	1634.2	38.9	27.2	18.6	14.4	10.7	10.1	6.9	3.7	3.2
67.5°	2426.3	1279.9	30.9	20.2	13.3	9.6	6.9	6.4	3.7	1.1	1.1
70°	1577.8	818.1	25.0	14.9	8.5	6.4	4.3	3.2	2.1	0.5	0.0
72.5°	780.4	382.5	20.2	11.7	5.9	3.2	1.6	1.1	1.6	0.0	0.0
75°	302.7	136.2	14.9	8.0	3.2	1.6	1.1	0.0	0.5	0.0	0.0
77.5°	100.6	45.2	9.1	4.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	37.3	17.6	4.8	2.7	1.1	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.9	6.9	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	4.3	2.1	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.2	2.1	1.6	1.1	0.5	0.0	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)