

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: P647785

Luminaire Tested: **GALN-SA2A-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5383.1 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G2

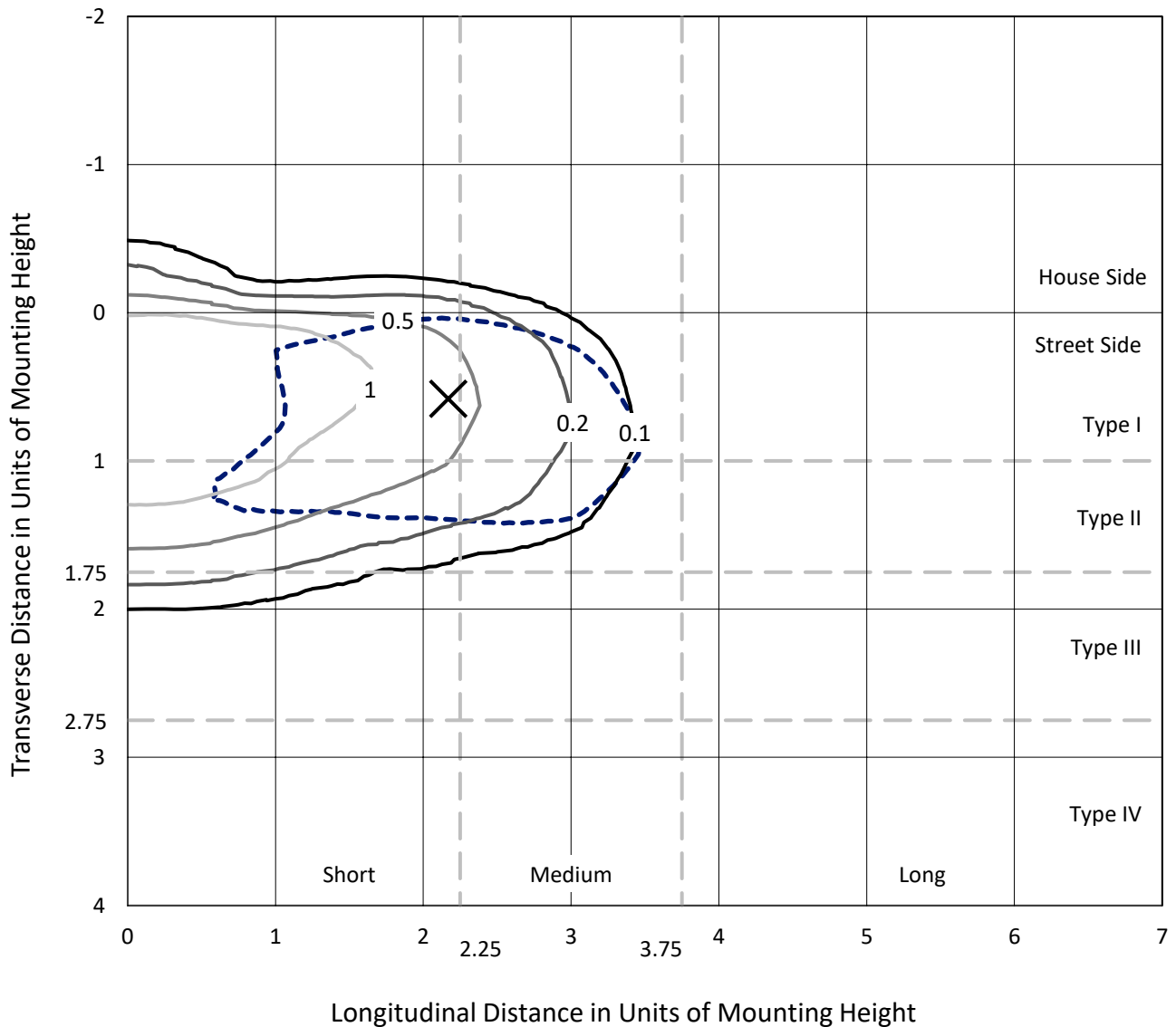
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

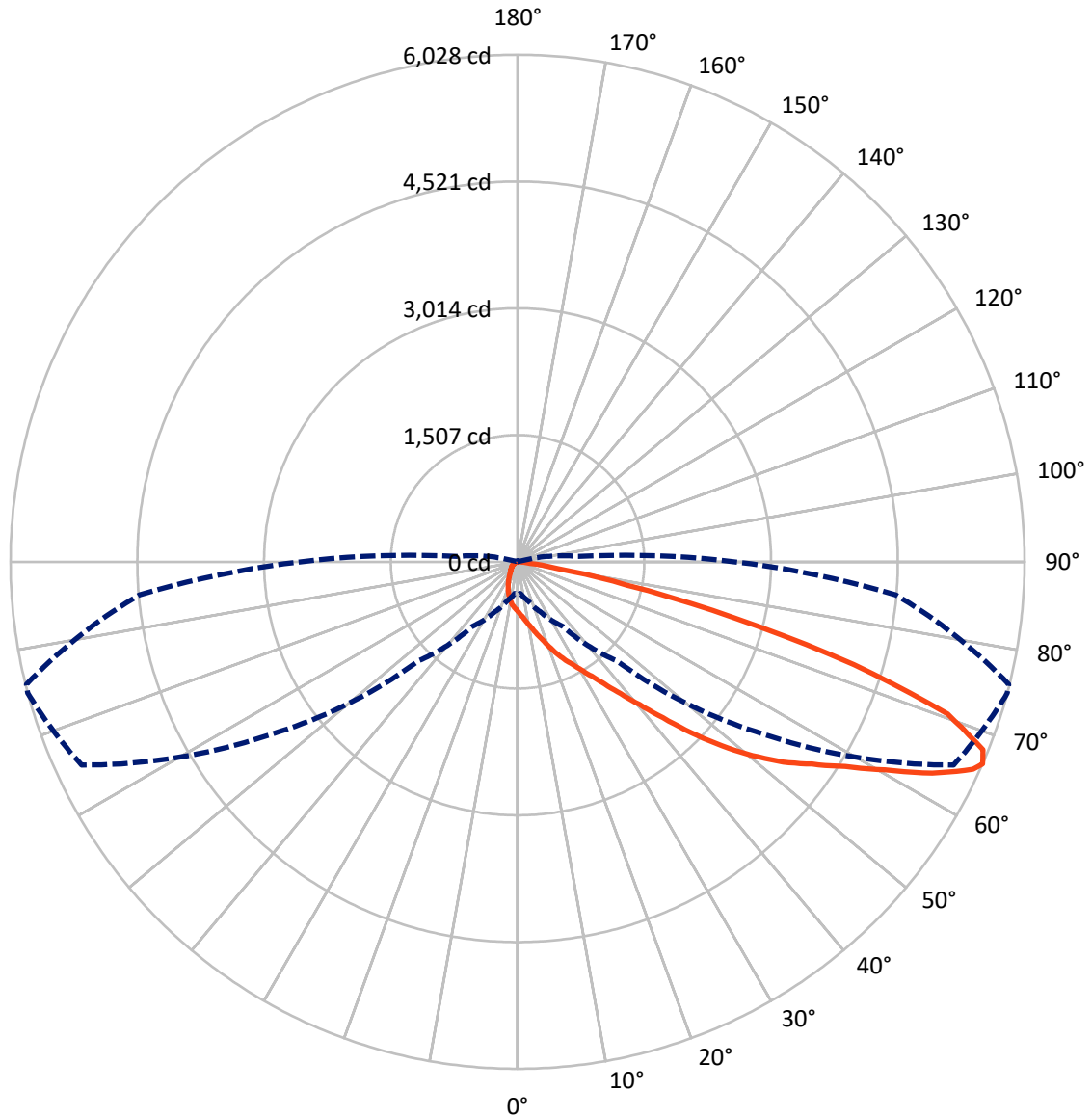
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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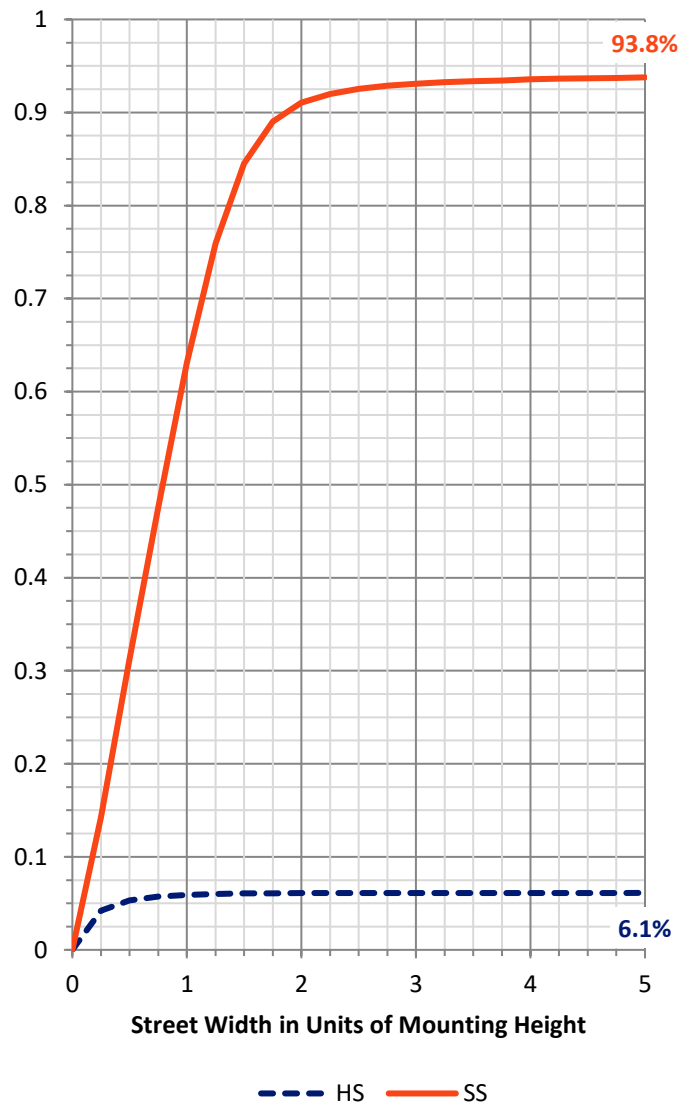
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	332.3	0.0	332.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	5050.8	0.0	5050.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	5383.1	0.0	5383.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	1.1
10°-20°	167.1	3.1
20°-30°	288.6	5.4
30°-40°	520.5	9.7
40°-50°	940.3	17.5
50°-60°	1465.9	27.2
60°-70°	1392.6	25.9
70°-80°	521.9	9.7
80°-90°	29.5	0.5
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°	5383.1	100.0
0°-180°	5383.1	100.0

**Coefficient of Utilization**

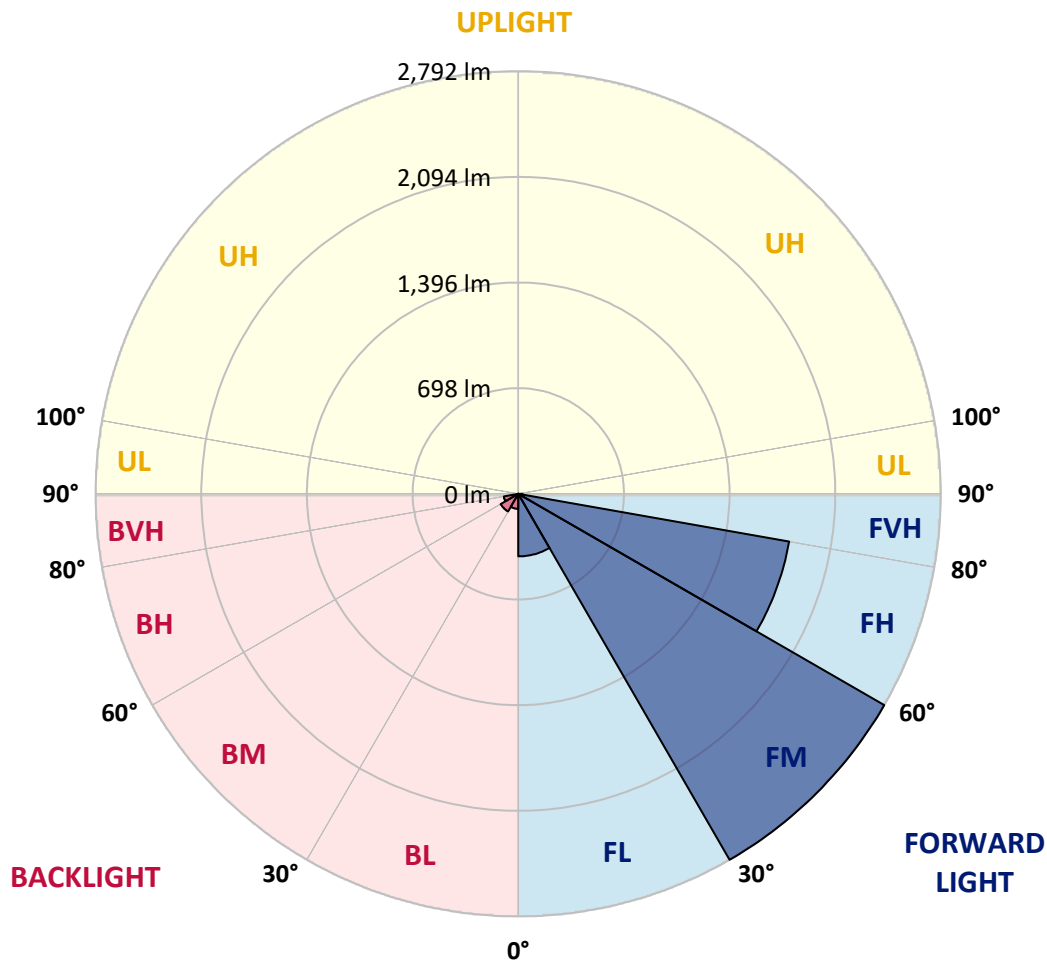


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.2	7.7			
FM (30°-60°)	2792.2	51.9			
FH (60°-80°)	1817.4	33.8			G2/5000
FVH (80°-90°)	27.9	0.5			G1/100
BL (0°-30°)	99.2	1.8	B0/110		
BM (30°-60°)	134.5	2.5	B0/220		
BH (60°-80°)	97.1	1.8	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	703.4	694.6	697.3	693.3	684.3	670.7	658.7	641.7	624.5	621.7	602.6
5°	796.1	793.6	790.5	778.9	772.6	751.9	727.3	697.7	662.3	656.0	621.3
7.5°	859.3	858.2	859.7	853.8	848.2	829.5	803.2	763.0	708.1	704.5	646.8
10°	880.1	883.2	889.3	898.8	907.5	901.5	881.7	831.5	767.4	757.1	675.9
12.5°	868.1	871.7	886.0	911.5	939.8	956.1	948.1	911.5	830.3	821.9	708.5
15°	837.5	841.9	862.2	901.5	952.1	998.2	1018.2	991.9	903.6	890.0	747.9
17.5°	792.1	798.4	827.6	879.7	948.9	1028.5	1084.7	1075.9	981.6	968.8	790.9
20°	757.9	762.6	787.3	847.0	935.4	1045.2	1148.0	1172.6	1077.9	1056.0	841.5
22.5°	780.6	782.1	790.5	826.3	911.1	1049.6	1203.6	1273.3	1180.2	1160.6	894.0
25°	891.6	875.7	867.3	859.3	905.9	1045.6	1254.2	1378.4	1282.1	1261.4	946.1
27.5°	1066.8	1059.6	1017.4	960.9	950.1	1050.8	1287.6	1477.9	1378.0	1355.7	997.1
30°	1257.4	1245.0	1219.2	1136.4	1053.2	1087.4	1311.9	1574.6	1491.5	1462.0	1043.7
32.5°	1432.6	1440.5	1401.9	1316.7	1220.4	1165.4	1343.4	1680.1	1621.6	1584.9	1097.8
35°	1636.7	1652.7	1593.3	1511.7	1399.1	1306.4	1404.7	1799.1	1786.8	1740.6	1181.4
37.5°	1844.1	1853.7	1817.4	1702.8	1601.3	1485.5	1520.1	1946.0	1990.2	1950.8	1281.3
40°	2018.4	2031.6	2004.9	1903.0	1794.7	1692.8	1687.7	2106.0	2232.2	2191.6	1430.1
42.5°	2151.8	2161.7	2162.6	2090.5	1993.0	1946.8	1901.4	2310.2	2535.5	2488.5	1602.9
45°	2320.2	2334.5	2326.1	2277.2	2204.3	2196.0	2172.5	2557.0	2898.5	2839.2	1827.0
47.5°	2580.5	2590.0	2569.3	2511.6	2437.6	2450.7	2436.8	2833.6	3268.7	3217.7	2059.1
50°	2761.2	2777.1	2806.6	2829.7	2775.9	2727.3	2685.9	3092.0	3620.1	3574.4	2296.3
52.5°	2759.2	2785.4	2878.6	2994.8	3112.3	3097.5	2978.5	3377.3	3955.7	3899.2	2519.1
55°	2573.3	2624.2	2761.2	2967.3	3292.6	3454.6	3400.4	3707.7	4245.5	4207.3	2777.5
57.5°	2189.6	2220.7	2410.9	2699.1	3191.9	3622.5	3889.2	4155.5	4592.9	4575.1	3178.7
60°	1472.7	1486.7	1731.4	2087.7	2717.4	3455.0	4247.5	4697.2	5020.8	5012.1	3647.2
62.5°	843.8	849.8	1027.4	1327.9	1933.7	2928.0	4277.7	5365.6	5533.9	5538.7	4189.4
65°	454.1	457.4	600.6	779.3	1176.6	2086.9	3846.6	5731.7	5948.7	5957.8	4525.3
66°	392.0	376.9	478.0	664.3	936.2	1661.0	3574.0	5718.6	6028.3	6018.3	4513.4
67.5°	298.2	311.6	381.7	510.7	693.8	1181.0	2950.7	5464.2	5967.8	5936.7	4329.8
70°	213.4	218.9	271.9	364.2	472.5	648.0	1885.5	4538.4	5424.1	5382.3	3772.2
72.5°	137.7	143.7	192.6	263.5	341.5	353.8	1055.6	3279.0	4181.8	4175.8	2840.8
75°	98.3	103.9	127.4	188.7	256.7	218.9	508.3	2209.9	2658.5	2640.6	1757.4
77.5°	71.3	74.1	85.2	123.4	183.5	156.8	235.6	1180.2	1323.5	1386.0	776.6
80°	41.0	43.4	59.3	75.2	124.2	107.0	112.7	473.6	488.4	464.9	242.8
82.5°	20.3	23.1	35.4	51.4	77.6	72.0	51.8	142.5	150.5	146.5	61.3
85°	4.8	6.0	19.9	33.8	37.8	32.3	25.1	41.8	51.8	50.6	23.5
87.5°	0.4	0.8	7.2	6.0	6.3	10.7	8.8	10.7	16.8	15.5	8.4
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°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	593.9	586.3	564.4	542.9	525.0	506.3	489.2	479.3	475.3	470.9	472.9
5°	602.2	583.9	539.7	501.5	464.1	432.3	406.8	390.5	382.5	381.3	379.4
7.5°	613.4	581.9	513.5	453.7	404.8	369.3	340.3	316.8	309.7	303.3	298.2
10°	626.9	578.3	480.8	403.6	351.5	306.9	268.6	240.9	226.5	222.5	225.3
12.5°	641.3	571.6	446.6	357.4	297.3	240.4	205.0	191.1	187.1	185.5	185.9
15°	655.6	563.2	410.8	312.9	236.9	191.8	175.5	171.9	170.4	169.6	168.7
17.5°	668.7	549.7	370.6	269.5	191.8	164.0	158.0	154.8	151.7	150.5	148.5
20°	684.3	534.2	334.3	220.9	162.4	148.5	141.3	135.3	130.5	127.4	127.0
22.5°	699.0	514.3	296.5	183.1	148.1	133.3	121.8	115.4	109.9	105.9	107.0
25°	706.9	490.0	262.7	159.6	134.9	118.2	105.5	97.5	91.5	89.6	89.2
27.5°	706.9	460.2	229.7	146.1	123.0	104.7	91.5	84.0	80.0	77.2	77.6
30°	701.3	427.1	199.0	135.7	112.7	92.7	80.4	73.6	70.5	68.4	68.0
32.5°	696.9	395.6	172.7	125.7	101.9	82.4	71.6	66.5	63.3	61.3	61.3
35°	703.8	368.6	152.5	115.8	91.9	74.5	64.9	60.1	56.9	55.4	55.0
37.5°	721.6	343.9	136.9	105.1	82.8	67.7	60.1	54.5	51.4	49.3	48.5
40°	765.9	330.0	125.4	95.1	74.1	62.1	54.5	49.3	45.4	43.4	43.0
42.5°	836.7	330.3	114.2	86.0	67.3	57.3	49.7	43.8	39.4	37.4	37.0
45°	943.4	345.5	105.5	77.2	61.3	52.1	44.6	38.2	34.2	32.3	32.3
47.5°	1071.1	375.0	98.0	69.7	55.7	47.4	39.4	33.0	29.0	27.5	27.5
50°	1209.7	413.2	90.4	61.7	51.0	42.2	33.8	28.7	25.4	24.3	24.3
52.5°	1350.9	459.3	82.8	55.4	45.8	36.6	29.0	25.4	22.7	21.9	21.5
55°	1536.4	518.3	74.9	48.5	40.2	31.5	25.8	22.3	19.1	17.9	17.5
57.5°	1821.8	607.0	66.1	42.6	33.0	26.3	22.3	18.7	15.1	13.2	12.8
60°	2166.1	715.3	56.9	37.4	26.7	21.5	17.9	14.3	11.1	8.8	8.4
62.5°	2488.5	784.1	48.2	31.5	21.1	16.3	12.8	10.7	8.0	5.6	5.2
65°	2631.0	761.1	39.8	25.4	16.8	11.5	8.4	7.6	4.8	2.4	2.0
66°	2583.7	726.8	36.6	23.1	15.1	9.9	7.2	6.3	3.6	1.2	1.2
67.5°	2444.0	646.1	31.9	19.9	13.2	8.0	5.6	4.8	2.0	0.4	0.0
70°	2094.1	522.7	25.1	14.7	9.6	5.6	3.2	2.4	1.2	0.0	0.0
72.5°	1608.4	389.3	19.9	11.1	6.7	3.2	1.6	0.8	1.2	0.0	0.0
75°	985.6	222.5	15.5	8.4	4.4	2.0	1.2	0.0	1.2	0.4	0.0
77.5°	437.5	99.9	10.3	5.6	3.2	1.6	0.8	0.0	0.8	0.4	0.0
80°	110.6	32.7	6.0	4.0	2.4	1.2	0.4	0.0	0.8	0.8	0.4
82.5°	30.2	12.0	4.4	3.2	2.0	1.2	0.4	0.0	0.8	0.8	0.8
85°	12.0	5.6	4.0	3.2	2.4	1.2	0.4	0.0	0.8	0.8	0.8
87.5°	5.6	4.0	4.0	3.6	2.8	1.2	0.4	0.0	0.8	0.4	0.8
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)