

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: P450700

Luminaire Tested: **GALN-SA1C-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450700  
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-SA1C-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4843 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

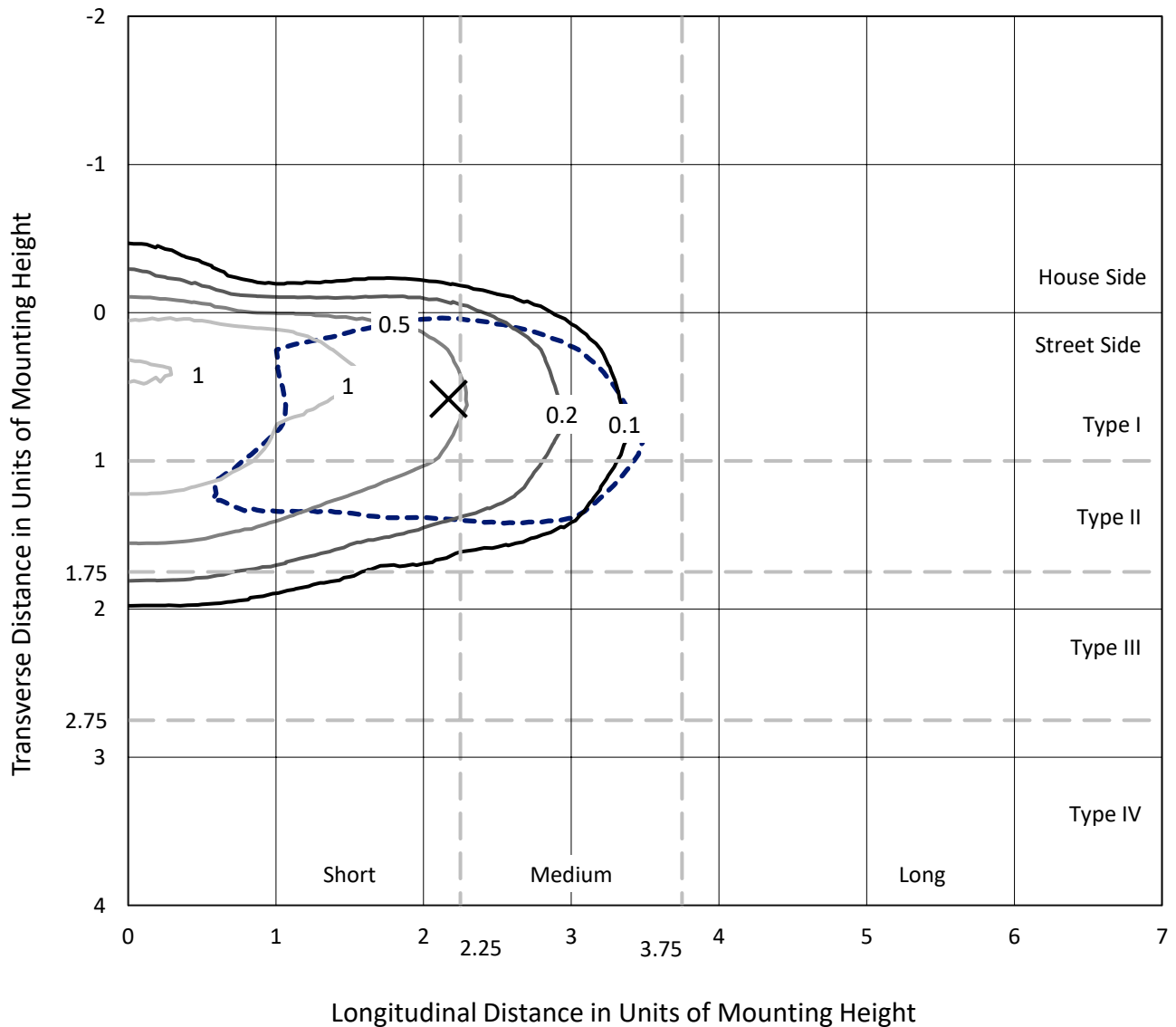
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

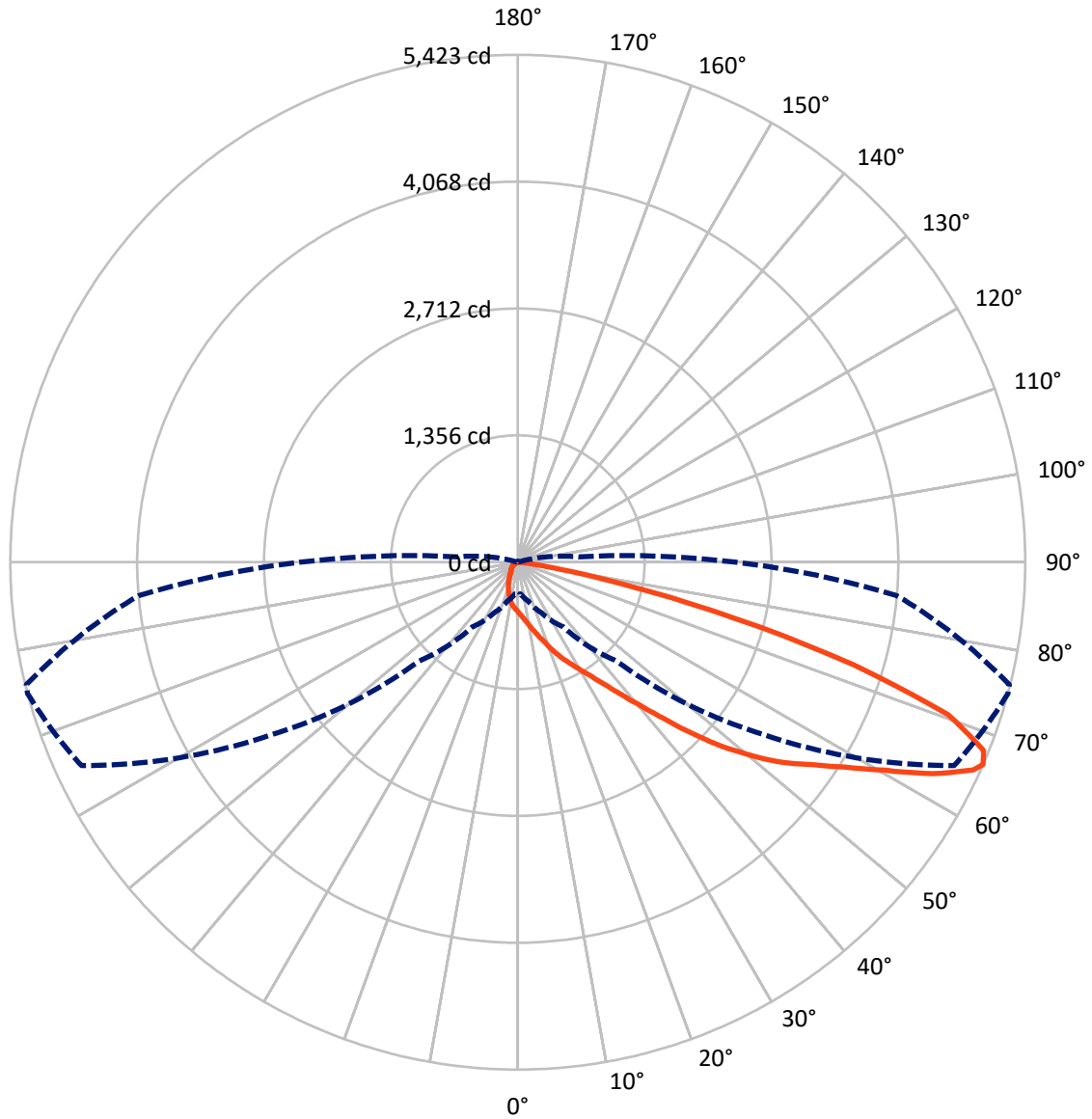
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type 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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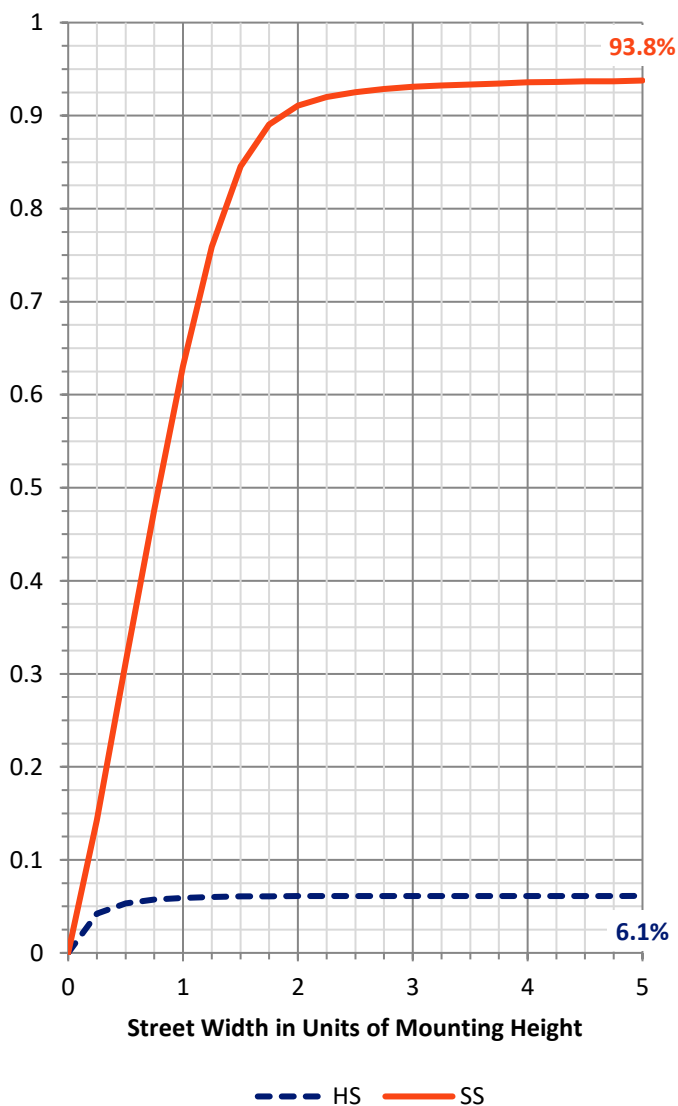
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	299.0	0.0	299.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	4544.0	0.0	4544.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	4843.0	0.0	4843.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	1.1
10°-20°	150.3	3.1
20°-30°	259.6	5.4
30°-40°	468.3	9.7
40°-50°	846.0	17.5
50°-60°	1318.8	27.2
60°-70°	1252.9	25.9
70°-80°	469.5	9.7
80°-90°	26.5	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°	4843.0	100.0
0°-180°	4843.0	100.0



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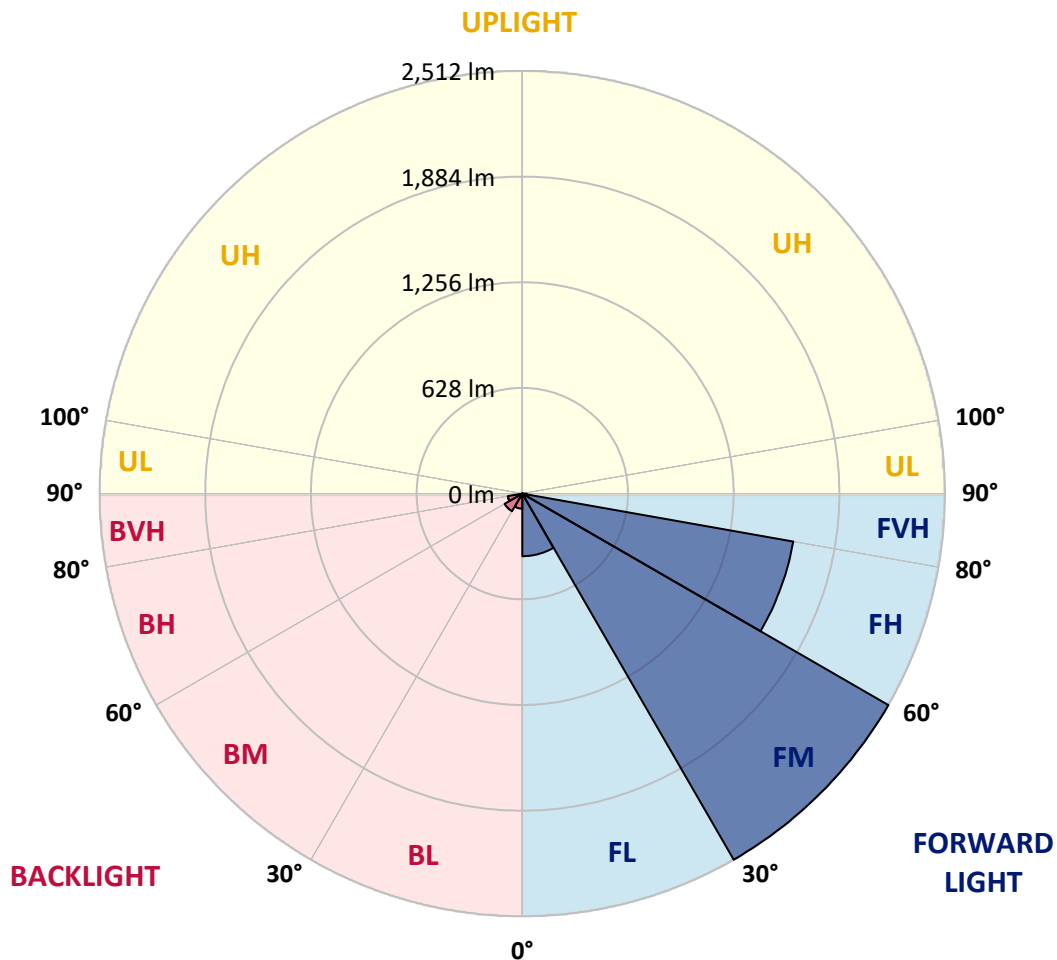
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.7	7.7			
FM	(30°-60°)	2512.1	51.9			
FH	(60°-80°)	1635.1	33.8			G1/1800
FVH	(80°-90°)	25.1	0.5			G1/100
BL	(0°-30°)	89.3	1.8	B0/110		
BM	(30°-60°)	121.0	2.5	B0/220		
BH	(60°-80°)	87.3	1.8	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6
2.5°	632.8	624.9	627.4	623.8	615.6	603.4	592.7	577.3	561.9	559.4	542.2
5°	716.2	714.1	711.2	700.8	695.1	676.5	654.2	627.7	595.9	590.1	559.0
7.5°	773.1	772.1	773.5	768.1	763.1	746.3	722.6	686.5	637.1	633.8	581.9
10°	791.8	794.6	800.0	808.6	816.5	811.1	793.2	748.1	690.4	681.1	608.1
12.5°	781.0	784.2	797.1	820.0	845.5	860.2	853.0	820.0	747.0	739.5	637.4
15°	753.4	757.4	775.6	811.1	856.6	898.1	916.0	892.4	812.9	800.7	672.9
17.5°	712.6	718.3	744.5	791.4	853.7	925.3	975.8	967.9	883.1	871.6	711.5
20°	681.8	686.1	708.3	762.0	841.5	940.4	1032.8	1055.0	969.7	950.0	757.0
22.5°	702.2	703.7	711.2	743.4	819.7	944.3	1082.9	1145.6	1061.8	1044.2	804.3
25°	802.1	787.8	780.3	773.1	815.0	940.7	1128.4	1240.1	1153.4	1134.8	851.2
27.5°	959.7	953.3	915.3	864.5	854.8	945.4	1158.5	1329.6	1239.7	1219.7	897.0
30°	1131.2	1120.1	1096.9	1022.4	947.5	978.3	1180.3	1416.6	1341.8	1315.3	938.9
32.5°	1288.8	1296.0	1261.2	1184.6	1097.9	1048.5	1208.6	1511.5	1458.9	1426.0	987.6
35°	1472.5	1486.8	1433.5	1360.1	1258.7	1175.3	1263.7	1618.6	1607.5	1566.0	1062.8
37.5°	1659.1	1667.7	1635.1	1532.0	1440.6	1336.4	1367.6	1750.8	1790.5	1755.0	1152.7
40°	1815.9	1827.7	1803.7	1712.1	1614.7	1523.0	1518.3	1894.7	2008.2	1971.7	1286.7
42.5°	1935.9	1944.8	1945.6	1880.7	1793.0	1751.5	1710.6	2078.4	2281.1	2238.8	1442.1
45°	2087.4	2100.3	2092.7	2048.7	1983.2	1975.6	1954.5	2300.4	2607.7	2554.3	1643.7
47.5°	2321.6	2330.2	2311.5	2259.6	2193.0	2204.8	2192.3	2549.3	2940.7	2894.9	1852.5
50°	2484.1	2498.5	2525.0	2545.7	2497.4	2453.7	2416.5	2781.7	3256.9	3215.7	2065.9
52.5°	2482.3	2506.0	2589.8	2694.3	2800.0	2786.7	2679.7	3038.5	3558.8	3507.9	2266.4
55°	2315.1	2361.0	2484.1	2669.6	2962.2	3108.0	3059.2	3335.7	3819.5	3785.1	2498.8
57.5°	1969.9	1997.8	2169.0	2428.3	2871.6	3259.1	3499.0	3738.6	4132.1	4116.0	2859.8
60°	1325.0	1337.5	1557.7	1878.2	2444.7	3108.3	3821.3	4225.9	4517.1	4509.2	3281.3
62.5°	759.2	764.5	924.3	1194.6	1739.6	2634.2	3848.5	4827.2	4978.7	4983.0	3769.0
65°	408.6	411.5	540.4	701.2	1058.5	1877.5	3460.7	5156.6	5351.8	5360.0	4071.2
66°	352.7	339.1	430.1	597.7	842.3	1494.4	3215.4	5144.8	5423.4	5414.5	4060.5
67.5°	268.2	280.4	343.4	459.4	624.2	1062.5	2654.6	4916.0	5369.0	5341.1	3895.4
70°	191.9	197.0	244.6	327.7	425.1	583.0	1696.3	4083.1	4879.8	4842.2	3393.7
72.5°	123.9	129.3	173.3	237.1	307.2	318.4	949.7	2950.0	3762.2	3756.8	2555.8
75°	88.5	93.5	114.6	169.7	231.0	197.0	457.3	1988.2	2391.8	2375.6	1581.0
77.5°	64.1	66.6	76.6	111.0	165.1	141.1	212.0	1061.8	1190.7	1246.9	698.7
80°	36.9	39.0	53.4	67.7	111.7	96.3	101.3	426.1	439.4	418.3	218.4
82.5°	18.3	20.8	31.9	46.2	69.8	64.8	46.6	128.2	135.4	131.8	55.1
85°	4.3	5.4	17.9	30.4	34.0	29.0	22.6	37.6	46.6	45.5	21.1
87.5°	0.4	0.7	6.4	5.4	5.7	9.7	7.9	9.7	15.0	14.0	7.5
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°	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6
2.5°	534.3	527.5	507.8	488.4	472.3	455.5	440.1	431.2	427.6	423.6	425.4
5°	541.8	525.3	485.6	451.2	417.5	388.9	366.0	351.3	344.1	343.1	341.3
7.5°	551.8	523.5	461.9	408.2	364.2	332.3	306.2	285.0	278.6	272.9	268.2
10°	564.0	520.3	432.6	363.1	316.2	276.1	241.7	216.7	203.8	200.2	202.7
12.5°	576.9	514.2	401.8	321.6	267.5	216.3	184.4	171.9	168.3	166.9	167.2
15°	589.8	506.7	369.6	281.5	213.1	172.6	157.9	154.7	153.3	152.6	151.8
17.5°	601.6	494.5	333.4	242.4	172.6	147.5	142.2	139.3	136.4	135.4	133.6
20°	615.6	480.6	300.8	198.7	146.1	133.6	127.1	121.8	117.5	114.6	114.2
22.5°	628.8	462.7	266.8	164.7	133.2	120.0	109.6	103.8	98.8	95.3	96.3
25°	636.0	440.8	236.3	143.6	121.4	106.4	94.9	87.7	82.4	80.6	80.2
27.5°	636.0	414.0	206.6	131.4	110.7	94.2	82.4	75.6	72.0	69.5	69.8
30°	631.0	384.2	179.1	122.1	101.3	83.4	72.3	66.2	63.4	61.6	61.2
32.5°	627.0	356.0	155.4	113.2	91.7	74.1	64.5	59.8	56.9	55.1	55.1
35°	633.1	331.6	137.2	104.2	82.7	67.0	58.4	54.1	51.2	49.8	49.4
37.5°	649.2	309.4	123.2	94.5	74.5	60.9	54.1	49.1	46.2	44.4	43.7
40°	689.0	296.9	112.8	85.6	66.6	55.9	49.1	44.4	40.8	39.0	38.7
42.5°	752.7	297.2	102.8	77.3	60.5	51.6	44.8	39.4	35.5	33.7	33.3
45°	848.7	310.8	94.9	69.5	55.1	46.9	40.1	34.4	30.8	29.0	29.0
47.5°	963.6	337.3	88.1	62.7	50.1	42.6	35.5	29.7	26.1	24.7	24.7
50°	1088.3	371.7	81.3	55.5	45.8	38.0	30.4	25.8	22.9	21.8	21.8
52.5°	1215.4	413.2	74.5	49.8	41.2	32.9	26.1	22.9	20.4	19.7	19.3
55°	1382.3	466.2	67.3	43.7	36.2	28.3	23.3	20.1	17.2	16.1	15.8
57.5°	1639.0	546.1	59.4	38.3	29.7	23.6	20.1	16.8	13.6	11.8	11.5
60°	1948.8	643.5	51.2	33.7	24.0	19.3	16.1	12.9	10.0	7.9	7.5
62.5°	2238.8	705.5	43.3	28.3	19.0	14.7	11.5	9.7	7.2	5.0	4.7
65°	2367.0	684.7	35.8	22.9	15.0	10.4	7.5	6.8	4.3	2.1	1.8
66°	2324.4	653.9	32.9	20.8	13.6	9.0	6.4	5.7	3.2	1.1	1.1
67.5°	2198.7	581.2	28.6	17.9	11.8	7.2	5.0	4.3	1.8	0.4	0.0
70°	1884.0	470.2	22.6	13.2	8.6	5.0	2.9	2.1	1.1	0.0	0.0
72.5°	1447.1	350.2	17.9	10.0	6.1	2.9	1.4	0.7	1.1	0.0	0.0
75°	886.7	200.2	14.0	7.5	3.9	1.8	1.1	0.0	1.1	0.4	0.0
77.5°	393.6	89.9	9.3	5.0	2.9	1.4	0.7	0.0	0.7	0.4	0.0
80°	99.6	29.4	5.4	3.6	2.1	1.1	0.4	0.0	0.7	0.7	0.4
82.5°	27.2	10.7	3.9	2.9	1.8	1.1	0.4	0.0	0.7	0.7	0.7
85°	10.7	5.0	3.6	2.9	2.1	1.1	0.4	0.0	0.7	0.7	0.7
87.5°	5.0	3.6	3.6	3.2	2.5	1.1	0.4	0.0	0.7	0.4	0.7
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)