

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: P647848

Luminaire Tested: **GALN-SA3A-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7848 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

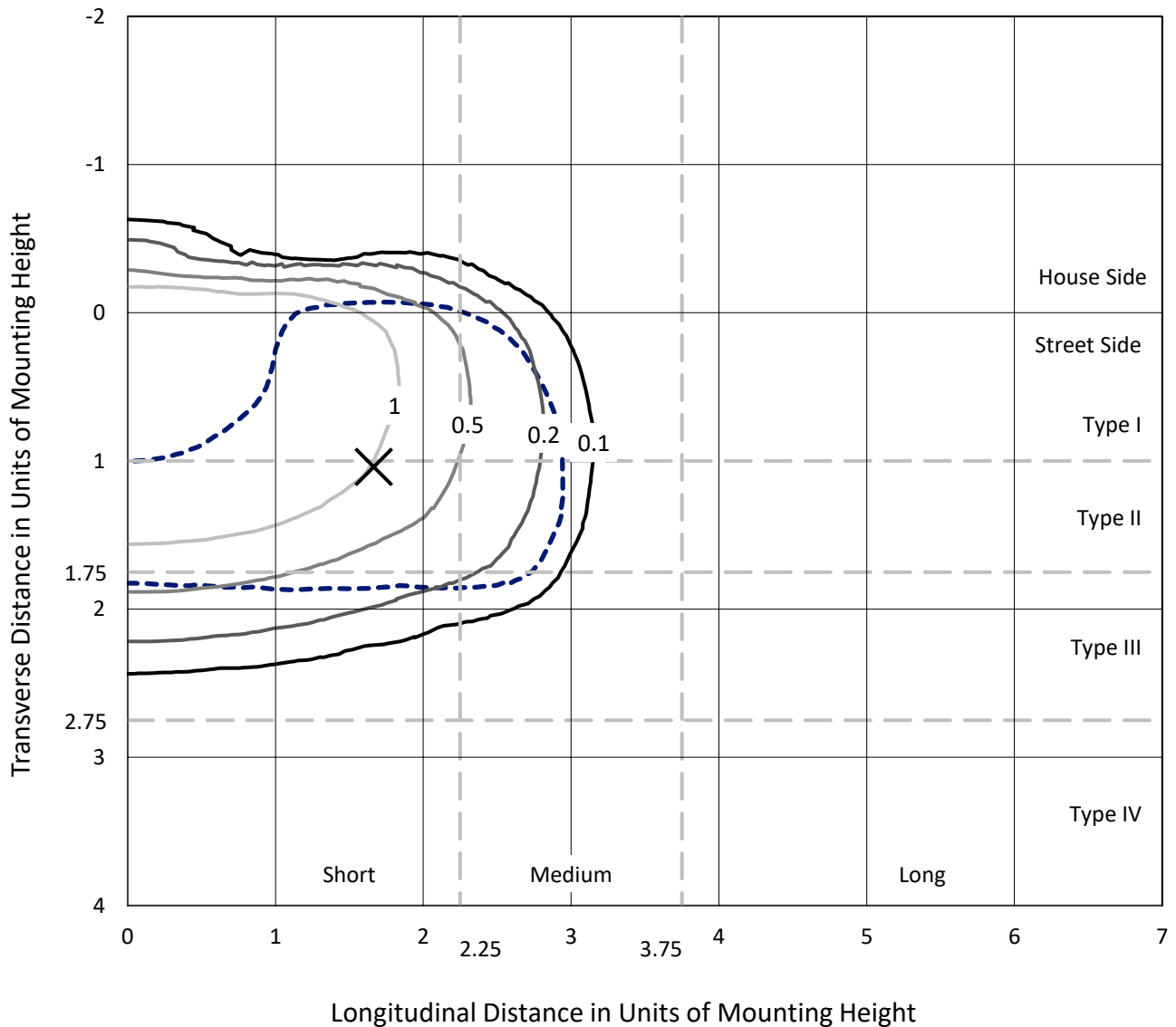
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

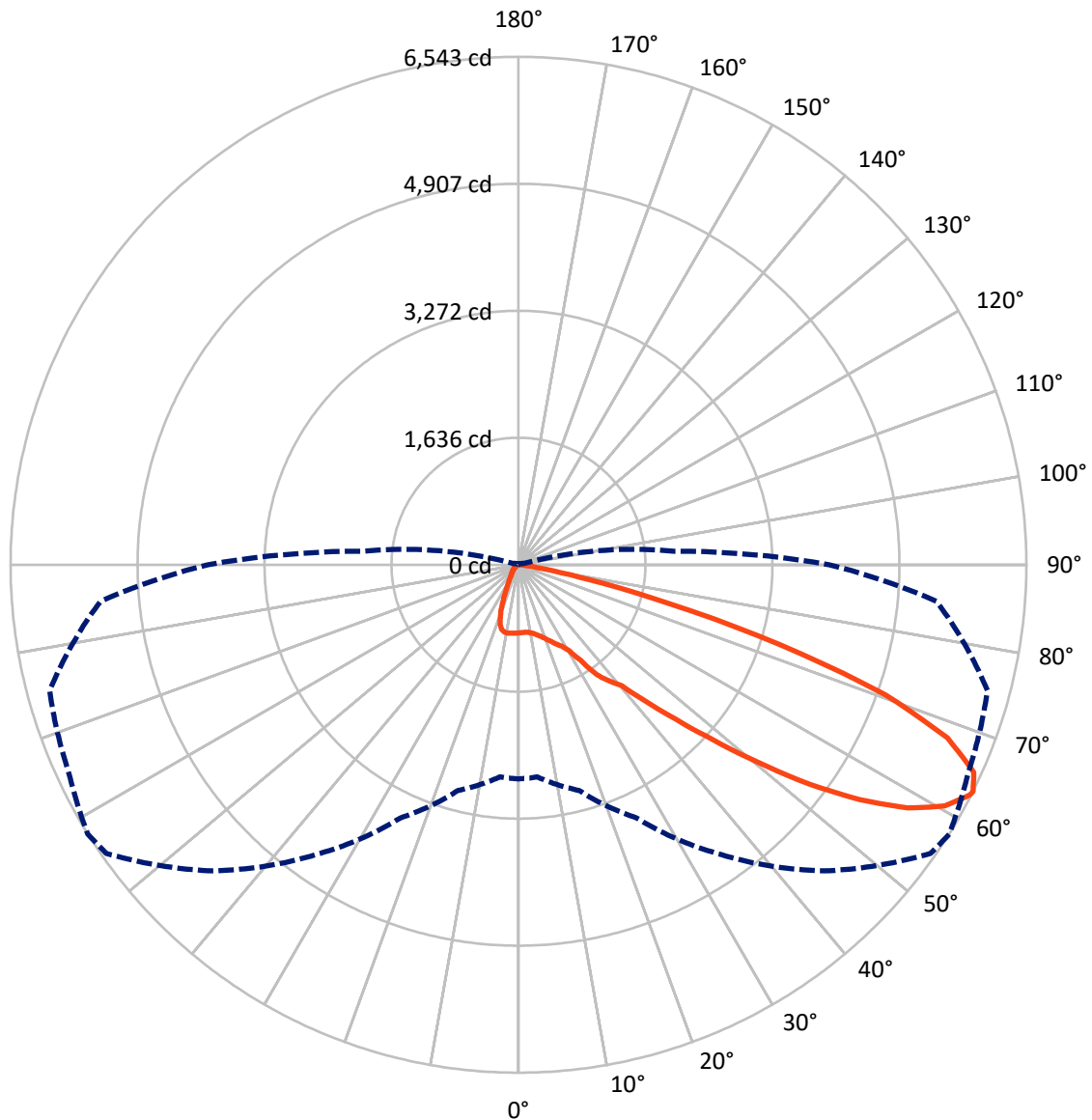
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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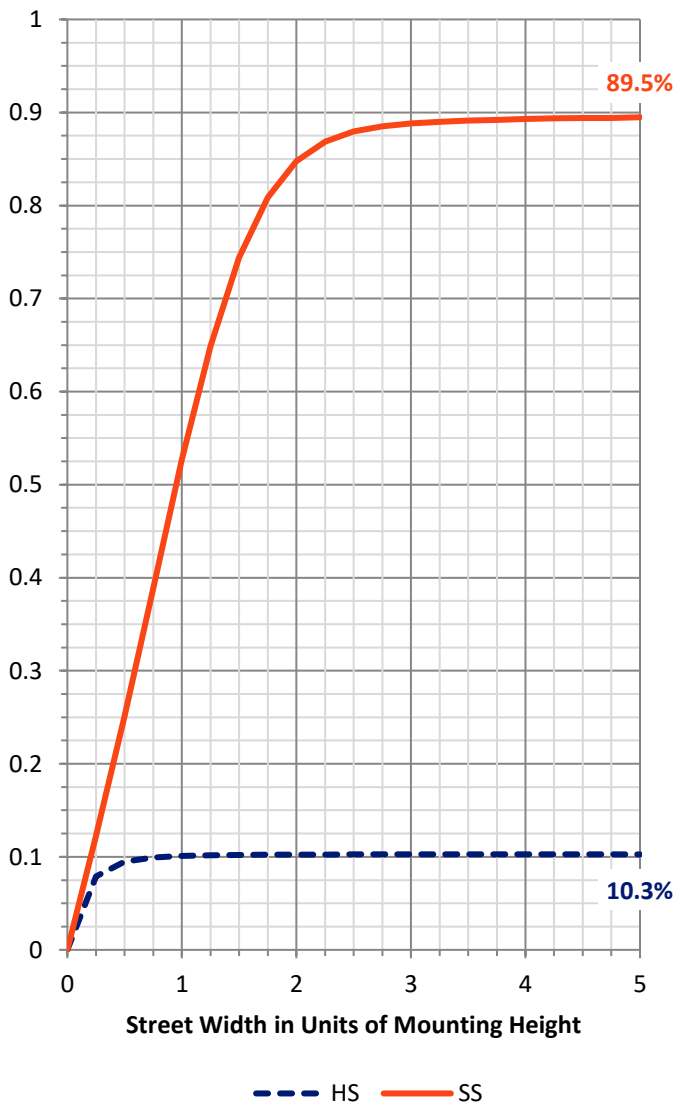
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	812.6	0.0	812.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7035.4	0.0	7035.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	7848.0	0.0	7848.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	1.0
10°-20°	224.0	2.9
20°-30°	388.8	5.0
30°-40°	714.5	9.1
40°-50°	1345.0	17.1
50°-60°	2300.4	29.3
60°-70°	2202.7	28.1
70°-80°	561.7	7.2
80°-90°	28.7	0.4
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°	7848.0	100.0
0°-180°	7848.0	100.0

**Coefficient of Utilization**



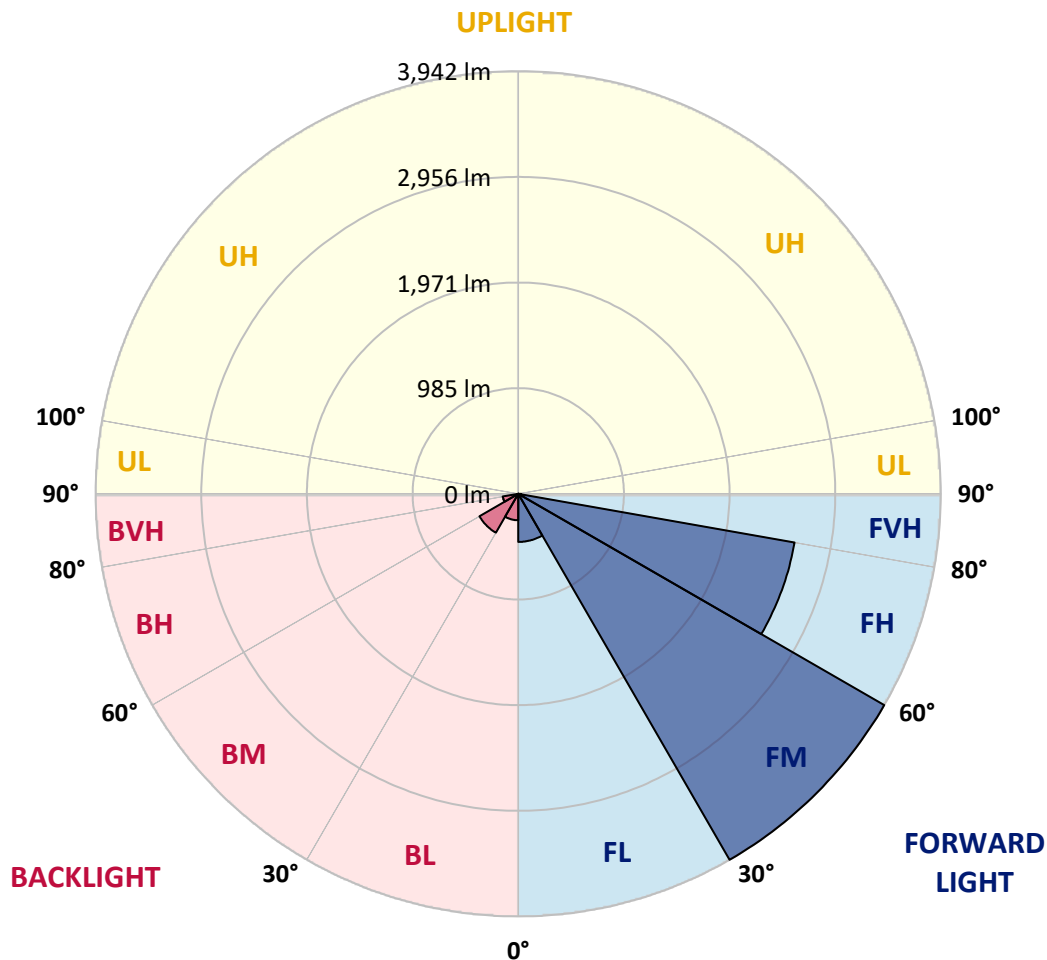
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.6	5.7			
FM (30°-60°)	3941.9	50.2			
FH (60°-80°)	2617.3	33.3			G2/5000
FVH (80°-90°)	27.6	0.4			G1/100
BL (0°-30°)	246.4	3.1	B1/500		
BM (30°-60°)	418.0	5.3	B1/1000		
BH (60°-80°)	147.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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°	45°	55°	58°	65°	75°	85°
0°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	856.8	859.7	862.6	863.8	868.0	872.1	875.1	874.5	879.2	881.6	881.6
5°	822.5	822.5	830.1	837.3	849.1	860.9	872.1	874.5	883.4	891.6	894.6
7.5°	793.5	795.3	801.2	814.2	830.1	850.8	873.3	878.6	894.0	912.3	919.9
10°	779.9	781.1	788.8	802.4	822.5	850.8	882.1	892.2	915.9	944.8	955.4
12.5°	777.0	778.8	786.4	801.8	824.8	859.1	901.6	912.3	946.6	983.8	999.7
15°	782.3	783.5	791.1	807.7	833.1	873.9	927.6	942.4	983.2	1026.4	1047.0
17.5°	801.2	800.0	805.3	818.9	847.3	892.2	958.9	976.7	1024.6	1083.7	1097.2
20°	881.6	873.9	869.1	857.3	868.6	918.2	996.8	1022.8	1081.9	1142.2	1151.6
22.5°	1054.7	1037.6	1003.9	957.8	922.4	953.6	1042.3	1072.4	1148.7	1207.7	1207.7
25°	1275.1	1253.2	1219.5	1119.1	1032.2	1012.2	1093.7	1131.5	1221.3	1281.0	1261.5
27.5°	1551.0	1533.9	1468.3	1351.3	1218.3	1114.4	1153.4	1188.2	1285.7	1357.8	1317.0
30°	1775.5	1767.3	1713.5	1608.9	1462.4	1310.5	1264.5	1287.5	1371.4	1454.7	1412.8
32.5°	1965.3	1965.3	1910.3	1812.8	1675.7	1540.9	1452.9	1469.5	1549.9	1646.2	1568.2
35°	2173.8	2166.7	2122.4	2029.6	1876.0	1757.2	1721.2	1743.7	1816.3	1887.8	1695.7
37.5°	2393.0	2390.7	2344.5	2254.7	2129.4	1980.0	1895.5	1901.4	1938.6	1982.3	1845.3
40°	2631.1	2634.6	2574.4	2518.8	2400.7	2247.7	2085.8	2048.6	2083.4	2206.9	2121.2
42.5°	2912.4	2904.1	2878.1	2802.4	2707.3	2615.8	2421.3	2407.8	2438.5	2570.8	2478.1
45°	3239.1	3250.9	3206.0	3164.1	3100.3	3024.0	2861.6	2837.9	2871.6	3077.2	2945.5
47.5°	3566.5	3555.2	3584.2	3576.5	3610.8	3554.0	3410.4	3362.0	3442.9	3638.0	3444.2
50°	3815.8	3828.2	3888.5	3976.5	4123.7	4155.5	4017.9	4001.4	4037.4	4162.7	3890.3
52.5°	3977.7	4019.1	4113.6	4339.9	4605.2	4811.4	4706.8	4697.9	4683.2	4716.9	4316.8
55°	4083.4	4125.4	4248.9	4582.1	5038.9	5373.9	5379.2	5341.4	5243.9	5219.7	4715.7
57.5°	4018.4	4026.7	4202.8	4648.4	5279.4	5775.1	5948.8	5911.0	5730.8	5639.2	5067.8
60°	3612.0	3629.0	3874.3	4397.8	5174.8	5906.2	6326.4	6309.3	6111.9	6008.5	5342.0
62.5°	2891.7	2941.3	3193.6	3777.4	4688.5	5685.3	6479.4	6527.9	6374.2	6231.8	5428.3
63°	2759.4	2743.4	3009.9	3596.6	4559.7	5576.0	6481.8	6543.2	6386.1	6253.1	5404.7
65°	2042.6	2090.5	2263.6	2836.2	3794.5	5067.3	6335.8	6444.6	6342.3	6159.2	5142.9
67.5°	1146.9	1144.5	1336.0	1855.9	2655.9	3974.7	5729.1	5958.9	5937.6	5527.0	4263.1
70°	561.3	570.2	648.8	961.9	1540.4	2742.2	4760.6	5008.8	5016.4	4341.1	2947.8
72.5°	254.1	258.2	314.4	468.5	791.8	1460.1	3280.5	3517.4	3473.7	2766.4	1627.9
75°	134.1	143.0	173.1	235.8	381.7	602.1	1784.4	2013.6	1922.1	1263.8	599.2
77.5°	99.3	102.2	117.6	150.1	204.4	234.6	769.9	915.9	857.9	457.4	198.6
80°	72.7	75.0	87.5	106.3	128.8	119.3	290.1	332.6	298.4	155.4	60.8
82.5°	44.3	44.9	63.8	79.2	81.0	66.8	95.7	102.8	107.5	87.5	33.1
85°	16.0	20.1	43.1	57.3	47.8	33.7	40.2	44.3	48.5	55.5	19.5
87.5°	1.8	2.3	20.7	27.8	13.6	12.4	14.8	16.5	17.7	20.7	9.5
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°	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6	878.6
2.5°	883.9	886.3	884.6	881.6	881.0	879.2	875.6	875.6	875.6	876.8	875.6
5°	896.9	898.7	894.6	888.6	882.1	873.9	865.1	859.7	859.1	857.9	855.0
7.5°	921.7	924.1	914.6	900.4	882.8	862.6	843.8	826.1	817.8	811.3	811.3
10°	957.8	960.2	941.2	915.9	880.4	839.6	794.7	754.0	722.0	707.3	703.7
12.5°	1000.9	1002.1	970.8	926.4	868.0	789.4	693.7	604.5	542.4	514.0	511.1
15°	1048.2	1039.9	998.6	930.6	832.6	686.0	520.5	411.2	346.9	327.9	335.0
17.5°	1096.0	1080.7	1019.9	924.1	752.8	520.5	349.8	280.6	260.6	255.3	255.3
20°	1141.0	1119.7	1035.2	895.8	614.5	358.7	259.4	242.8	239.3	235.8	236.3
22.5°	1185.9	1153.4	1048.8	832.6	457.9	256.4	232.2	226.9	222.1	217.4	216.8
25°	1229.6	1184.7	1054.1	715.5	311.9	220.4	212.1	205.1	195.6	190.3	189.1
27.5°	1275.1	1222.5	1050.6	567.8	227.5	197.3	189.1	179.0	167.8	158.3	158.3
30°	1362.5	1294.6	1038.2	408.3	191.4	173.7	163.1	147.1	134.8	125.3	124.7
32.5°	1481.9	1388.5	995.6	287.1	170.1	153.0	137.1	119.3	106.3	99.3	99.3
35°	1588.2	1483.1	915.9	211.6	153.0	133.0	113.5	96.3	86.3	81.5	79.8
37.5°	1750.2	1621.4	805.9	171.9	136.5	115.3	95.1	79.2	70.9	67.3	67.3
40°	1993.0	1790.3	671.2	150.6	120.5	98.1	79.2	66.8	60.3	56.1	56.1
42.5°	2294.3	1997.1	534.7	135.3	105.8	84.5	66.2	56.7	50.8	47.8	47.3
45°	2673.6	2215.2	411.9	121.1	94.0	72.1	56.1	47.8	42.0	40.2	40.8
47.5°	3069.5	2407.2	319.1	108.7	81.5	60.8	47.8	41.3	37.2	34.8	34.8
50°	3407.5	2539.5	242.3	94.5	72.1	51.4	42.0	37.2	33.7	32.5	31.9
52.5°	3690.0	2577.9	185.5	82.1	63.2	44.3	37.2	33.7	30.7	29.0	29.0
55°	3930.4	2544.3	145.3	69.1	53.2	38.4	33.1	30.1	26.6	24.8	24.2
57.5°	4071.1	2436.1	111.1	57.3	43.1	31.9	29.0	25.4	21.3	18.3	18.3
60°	4142.0	2279.0	85.1	47.3	33.1	25.4	23.6	18.9	14.8	12.4	11.8
62.5°	4056.9	2070.4	64.4	37.2	24.8	18.9	16.0	13.6	9.5	7.1	7.1
63°	4004.3	2010.1	62.0	35.5	23.0	17.7	14.8	12.4	8.3	6.5	5.9
65°	3650.3	1747.2	50.8	28.3	18.3	12.4	10.0	8.8	5.9	3.0	2.3
67.5°	2898.7	1336.5	40.2	21.3	13.0	8.8	5.9	5.3	1.8	0.0	0.0
70°	1959.9	863.3	31.3	15.3	8.8	5.3	3.0	2.3	0.6	0.0	0.0
72.5°	1022.2	442.6	24.2	11.2	5.3	3.5	1.8	0.6	0.0	0.0	0.0
75°	361.6	150.6	17.7	7.1	3.5	1.8	0.6	0.0	0.0	0.0	0.0
77.5°	109.3	56.1	11.2	5.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0
80°	38.4	20.7	6.5	3.5	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	10.0	4.1	3.0	1.8	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.6	6.5	3.5	3.0	1.8	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	4.7	3.5	3.0	2.3	1.2	0.6	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)