

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: P650701

Luminaire Tested: **GALN-SA1C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650701
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-SA1C-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.9 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

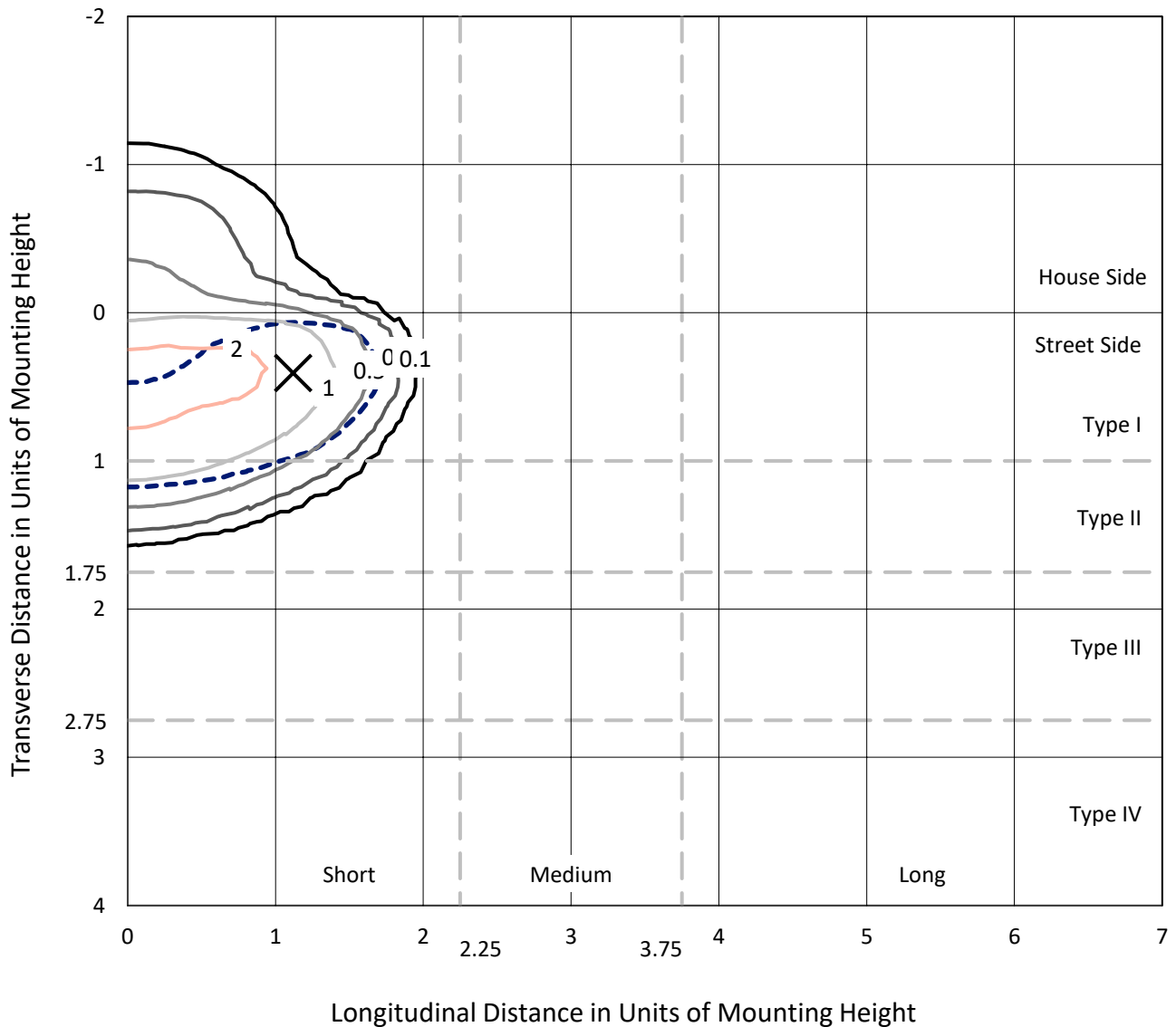
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

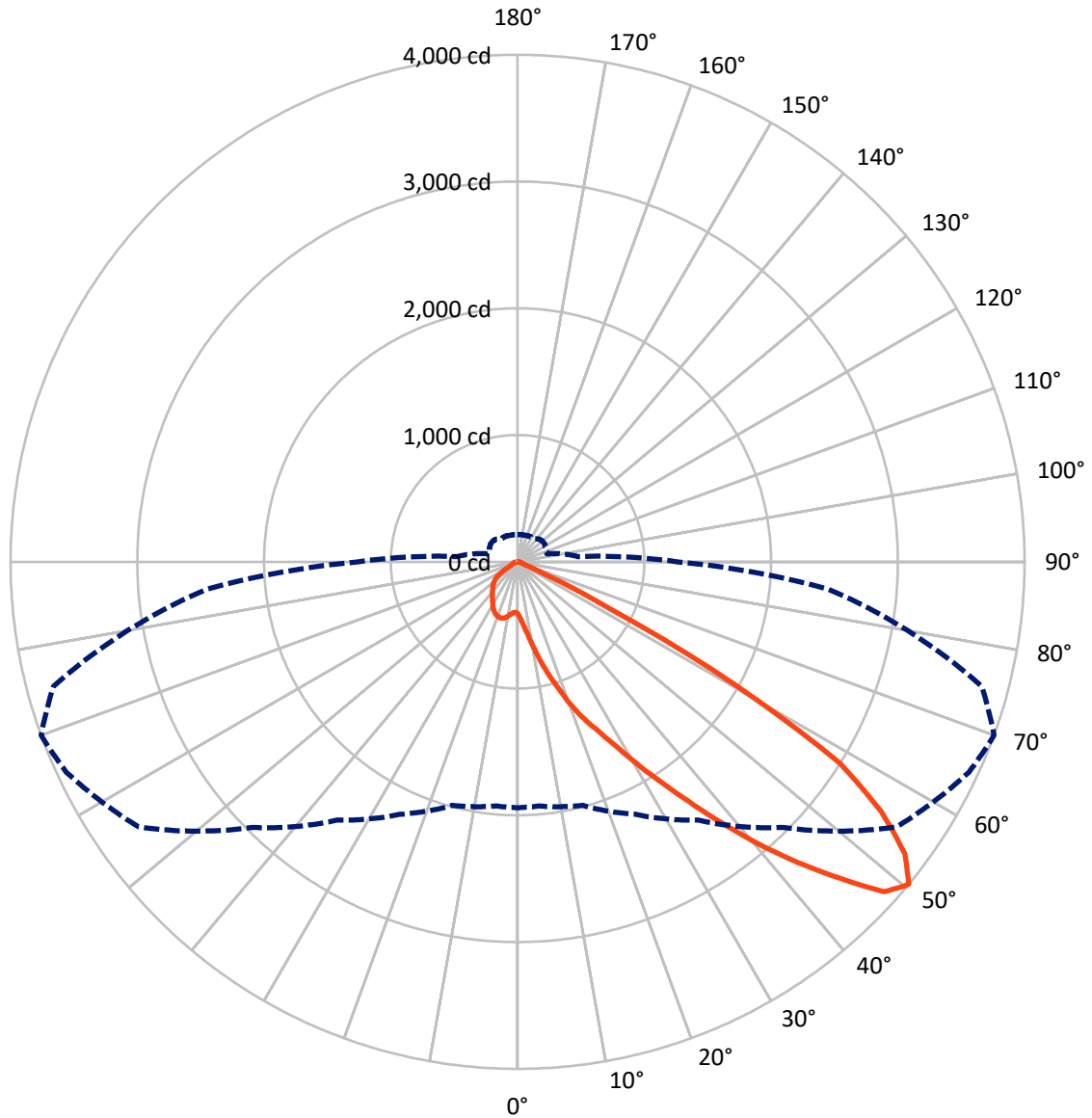
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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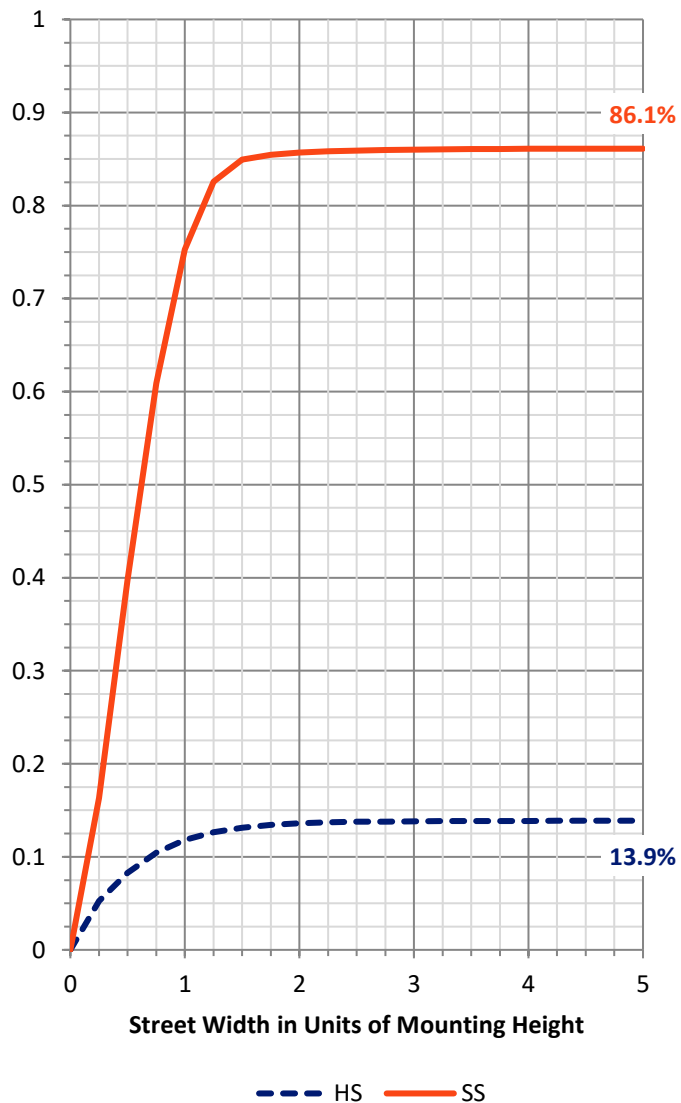
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	552.6	0.0	552.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3404.3	0.0	3404.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	3956.9	0.0	3956.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	1.3
10°-20°	230.5	5.8
20°-30°	483.6	12.2
30°-40°	833.6	21.1
40°-50°	1218.3	30.8
50°-60°	948.9	24.0
60°-70°	160.8	4.1
70°-80°	22.1	0.6
80°-90°	5.7	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°	3956.9	100.0
0°-180°	3956.9	100.0

Coefficient of Utilization

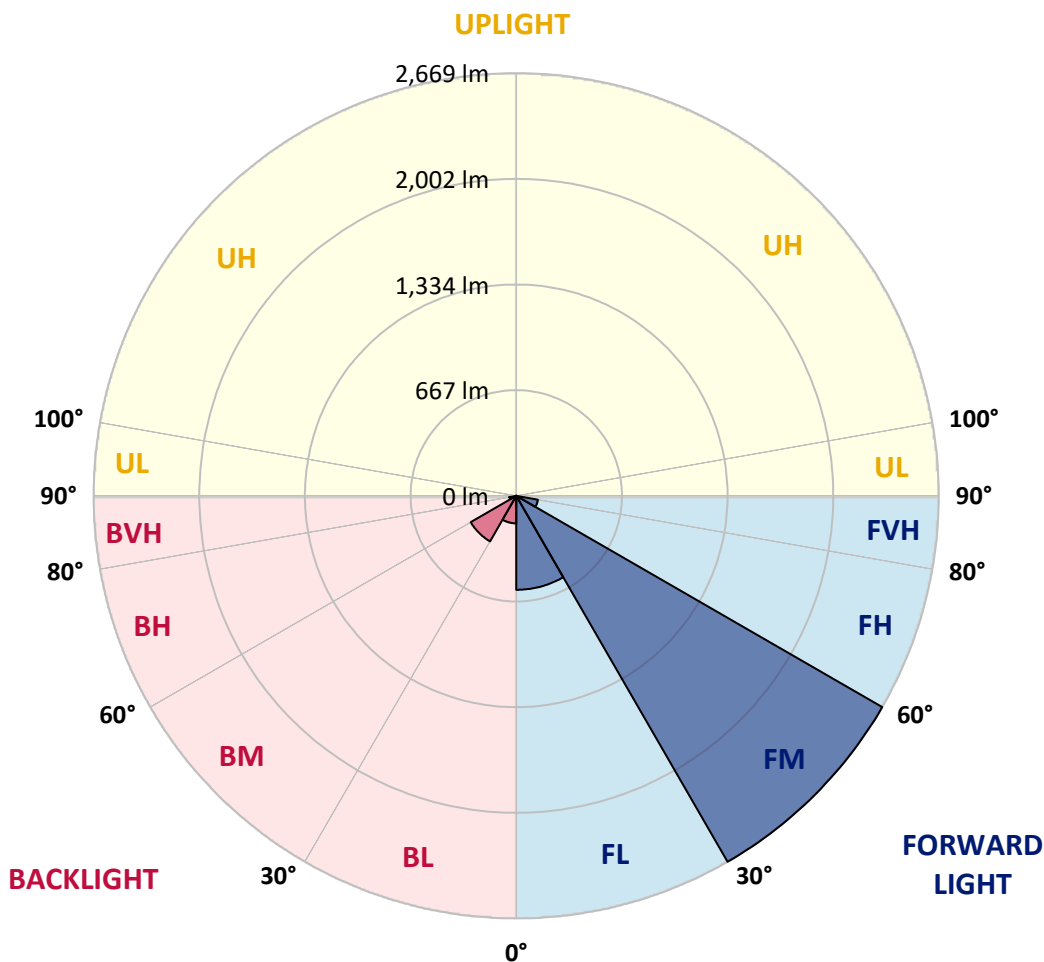


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.6	15.0			
FM (30°-60°)	2668.9	67.4			
FH (60°-80°)	139.2	3.5			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	173.9	4.4	B1/500		
BM (30°-60°)	332.0	8.4	B1/1000		
BH (60°-80°)	43.7	1.1	B0/110		G0/110
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8
2.5°	536.7	532.8	524.4	508.7	502.2	486.6	477.5	459.9	448.9	436.6	422.9
5°	756.0	735.8	723.4	705.9	654.5	622.6	569.9	525.0	504.2	481.4	450.2
7.5°	982.4	969.3	952.4	914.7	879.6	813.2	722.8	623.9	581.6	542.6	480.8
10°	1169.7	1133.2	1131.3	1103.4	1065.0	985.6	877.0	754.0	678.5	621.3	524.4
12.5°	1300.5	1267.3	1282.3	1279.0	1243.3	1170.3	1044.8	882.2	803.5	714.3	569.3
15°	1419.5	1405.9	1401.4	1397.4	1383.1	1329.1	1216.6	1038.3	924.4	817.1	620.0
17.5°	1536.0	1500.8	1517.8	1521.0	1519.7	1470.9	1365.5	1186.7	1052.6	925.8	673.3
20°	1639.4	1642.6	1619.9	1615.4	1611.4	1609.5	1506.7	1333.7	1210.0	1039.6	742.9
22.5°	1772.2	1749.4	1769.5	1756.5	1731.2	1715.6	1636.8	1463.8	1346.7	1176.9	813.8
25°	1928.9	1947.2	1899.7	1894.4	1866.5	1812.4	1741.5	1609.5	1478.1	1304.4	890.6
27.5°	2122.2	2090.3	2077.9	2049.3	1998.6	1975.8	1892.5	1759.8	1636.8	1438.4	964.8
30°	2288.0	2279.6	2217.8	2184.0	2139.8	2139.1	2022.6	1963.4	1843.7	1648.5	1066.9
32.5°	2423.3	2386.3	2363.5	2340.1	2304.3	2314.1	2215.9	2184.6	2064.2	1843.7	1187.3
35°	2513.8	2487.1	2473.5	2437.6	2427.3	2470.9	2429.9	2416.9	2318.0	2118.2	1328.4
37.5°	2542.4	2550.8	2548.3	2503.4	2525.5	2643.3	2695.9	2662.1	2610.0	2407.8	1481.3
40°	2567.8	2573.6	2560.6	2613.3	2676.4	2810.5	3001.1	2945.1	2925.6	2701.1	1694.1
42.5°	2582.1	2577.6	2577.6	2668.7	2764.3	3033.6	3295.8	3258.7	3243.7	3013.4	1940.0
45°	2520.3	2476.1	2523.6	2647.1	2839.7	3143.6	3531.3	3582.7	3561.2	3384.9	2227.6
47.5°	2289.4	2316.7	2343.4	2508.6	2748.0	3109.7	3675.7	3850.7	3890.4	3697.2	2416.2
50°	1940.0	1934.1	1989.5	2197.6	2488.4	2964.0	3647.8	3928.1	4000.3	3790.9	2455.9
52.5°	1411.1	1454.0	1513.9	1720.8	2065.6	2586.7	3286.6	3728.4	3824.7	3675.7	2429.9
55°	821.7	774.1	908.9	1083.9	1409.1	1951.0	2778.6	3304.9	3483.2	3466.2	2298.5
57.5°	329.2	318.7	365.0	491.8	735.1	1209.4	2020.7	2715.5	3001.1	3174.8	2020.0
60°	144.4	141.2	165.9	200.4	300.6	557.5	1105.3	1688.9	1986.9	2218.5	1390.3
62.5°	104.1	102.8	115.1	127.5	158.7	242.6	464.5	680.5	848.3	1024.7	622.6
65°	83.9	87.2	95.6	102.1	117.1	134.6	163.9	189.3	232.3	240.7	137.3
67.5°	68.3	70.9	78.7	85.9	88.5	72.8	75.4	66.4	66.4	59.2	47.5
70°	50.1	50.7	59.9	68.3	54.7	29.3	51.4	51.4	46.2	44.2	40.4
72.5°	37.1	37.8	44.9	42.3	21.4	18.2	37.8	41.6	37.8	35.7	32.5
75°	27.3	28.0	23.4	9.8	9.1	11.7	22.1	28.6	27.3	26.7	24.7
77.5°	5.2	3.9	3.3	4.5	6.5	9.8	14.3	17.6	18.2	19.5	18.2
80°	0.7	0.7	1.9	3.9	7.1	10.4	15.0	16.9	17.6	18.2	16.9
82.5°	0.0	0.7	1.9	3.9	7.1	9.8	13.0	15.0	16.2	16.9	16.2
85°	0.0	0.7	1.3	3.3	5.9	7.1	6.5	4.5	3.9	4.5	3.3
87.5°	0.0	0.0	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8	409.8
2.5°	415.0	412.4	403.3	393.6	385.1	389.0	385.1	381.9	383.2	381.9	380.6
5°	437.8	426.1	406.6	398.1	391.0	390.3	388.4	387.7	388.4	388.4	382.6
7.5°	459.3	440.4	419.6	410.5	402.1	402.7	398.1	398.1	397.5	394.3	392.9
10°	491.8	466.4	439.8	423.5	413.1	411.2	406.6	402.1	402.1	402.1	395.5
12.5°	527.6	495.8	459.3	440.4	428.1	418.3	411.2	409.8	402.7	401.4	398.1
15°	558.8	518.5	472.3	446.3	430.7	417.6	406.6	399.5	396.2	394.3	391.7
17.5°	589.4	538.0	479.5	446.3	429.4	414.4	402.7	396.2	388.4	389.7	384.5
20°	630.4	558.8	481.4	437.8	417.1	402.7	387.1	383.8	379.3	375.3	376.7
22.5°	670.1	573.8	475.6	427.4	397.5	380.6	372.8	368.9	366.9	363.6	359.1
25°	705.9	590.0	466.4	408.6	376.7	364.3	357.2	356.5	352.0	352.0	343.5
27.5°	742.3	595.9	450.9	386.4	358.4	351.3	348.1	346.7	344.8	340.3	334.4
30°	783.9	597.9	428.1	363.6	342.2	334.4	338.9	342.2	333.7	325.3	327.9
32.5°	818.4	593.3	400.7	342.2	330.5	326.6	335.7	338.9	329.2	320.1	315.5
35°	860.1	582.2	374.1	325.3	318.7	326.6	334.4	334.4	314.9	303.9	301.2
37.5°	923.2	569.9	349.4	311.0	306.4	322.7	333.1	326.0	295.4	281.7	278.5
40°	990.8	562.1	325.3	296.6	299.9	316.2	322.0	299.9	268.7	260.2	257.6
42.5°	1089.0	546.5	303.9	284.3	294.1	307.0	307.0	267.4	255.7	251.1	250.4
45°	1211.4	535.4	284.9	273.9	285.6	288.9	278.5	250.4	242.0	240.7	241.4
47.5°	1271.2	513.9	265.4	261.6	270.0	270.6	243.3	236.8	229.7	227.7	226.4
50°	1262.1	475.6	240.0	245.2	257.0	250.4	221.9	223.1	216.6	216.0	212.8
52.5°	1198.3	415.0	214.7	227.1	240.0	221.2	204.3	203.0	203.0	194.5	191.2
55°	1062.4	334.4	184.1	199.7	215.3	186.0	181.5	180.2	176.9	169.1	167.2
57.5°	841.2	245.2	138.6	155.5	182.8	158.1	157.4	151.5	143.1	137.3	137.3
60°	500.3	141.2	87.2	94.9	121.0	128.2	142.5	139.9	125.6	116.5	113.9
62.5°	228.3	72.8	55.3	56.6	65.1	83.3	111.9	129.4	109.3	93.7	92.3
65°	76.8	54.0	45.5	43.6	44.9	50.1	67.0	91.8	87.2	72.2	69.6
67.5°	46.8	48.1	43.0	39.7	39.7	39.0	38.3	41.6	51.4	50.1	50.7
70°	40.4	44.2	39.7	35.7	34.5	32.5	27.3	22.8	19.5	22.8	24.1
72.5°	32.5	35.2	33.8	30.6	27.3	24.7	19.5	15.0	11.1	9.8	9.8
75°	24.1	26.0	27.3	23.4	20.9	17.6	14.3	9.8	5.9	3.9	3.9
77.5°	17.6	19.5	20.2	18.2	15.6	12.4	9.1	6.5	3.3	1.3	1.3
80°	15.0	17.6	19.5	18.2	16.2	11.7	8.5	4.5	2.6	0.7	0.7
82.5°	14.3	17.6	19.5	17.6	15.6	11.1	8.5	5.2	1.9	0.7	0.7
85°	3.3	4.5	5.9	7.1	8.5	8.5	6.5	3.9	1.9	0.7	0.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.7	0.7	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)