

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: P650700

Luminaire Tested: **GALN-SA1C-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650700
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-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4472.5 lumens
Efficiency: N/A
Efficacy: 78.5 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

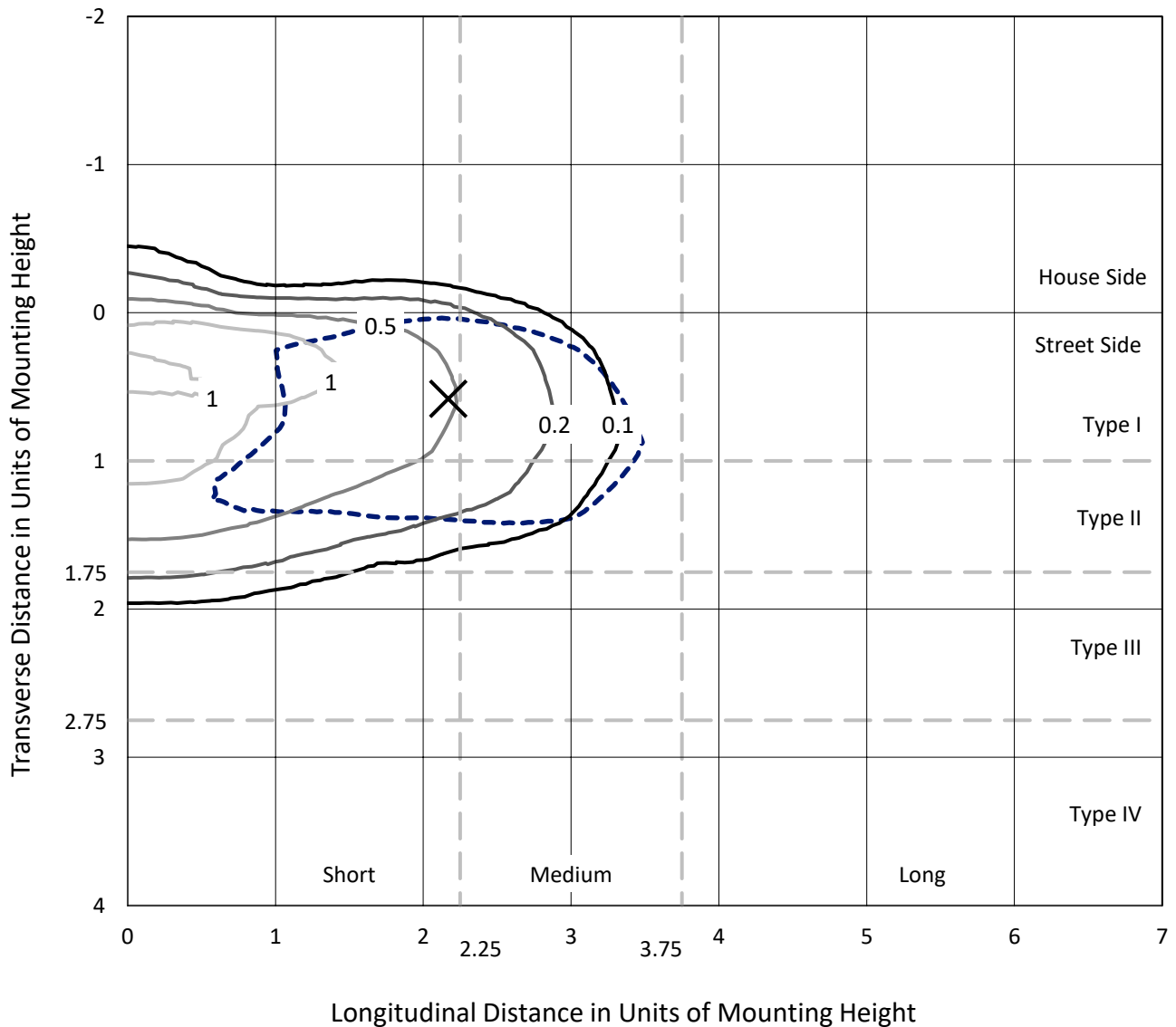
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650700
 CATALOG NUMBER: GALN-SA1C-840-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

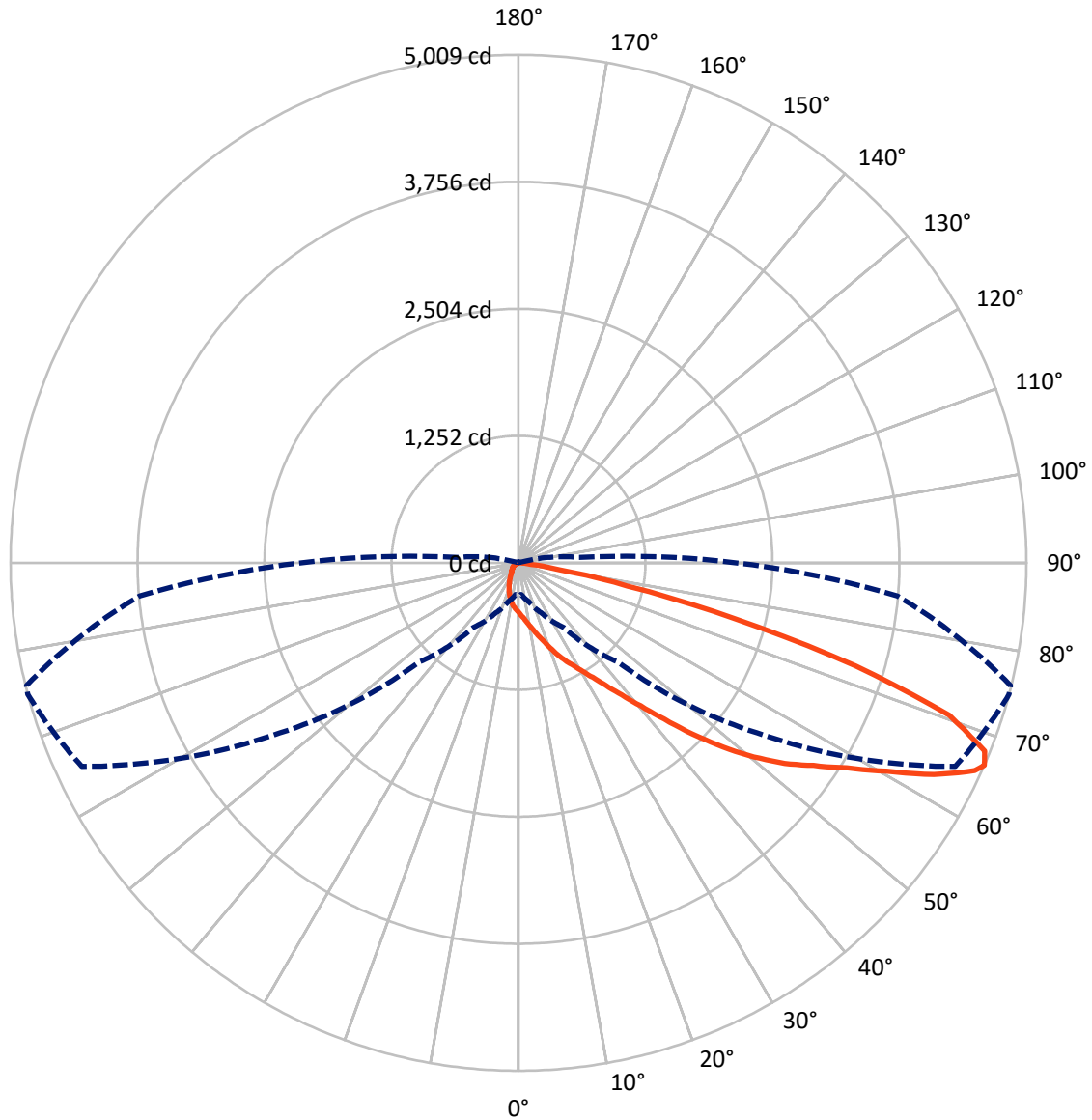
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

REPORT NUMBER: P650700
CATALOG NUMBER: GALN-SA1C-840-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650700
 CATALOG NUMBER: GALN-SA1C-840-U-T2-HSS

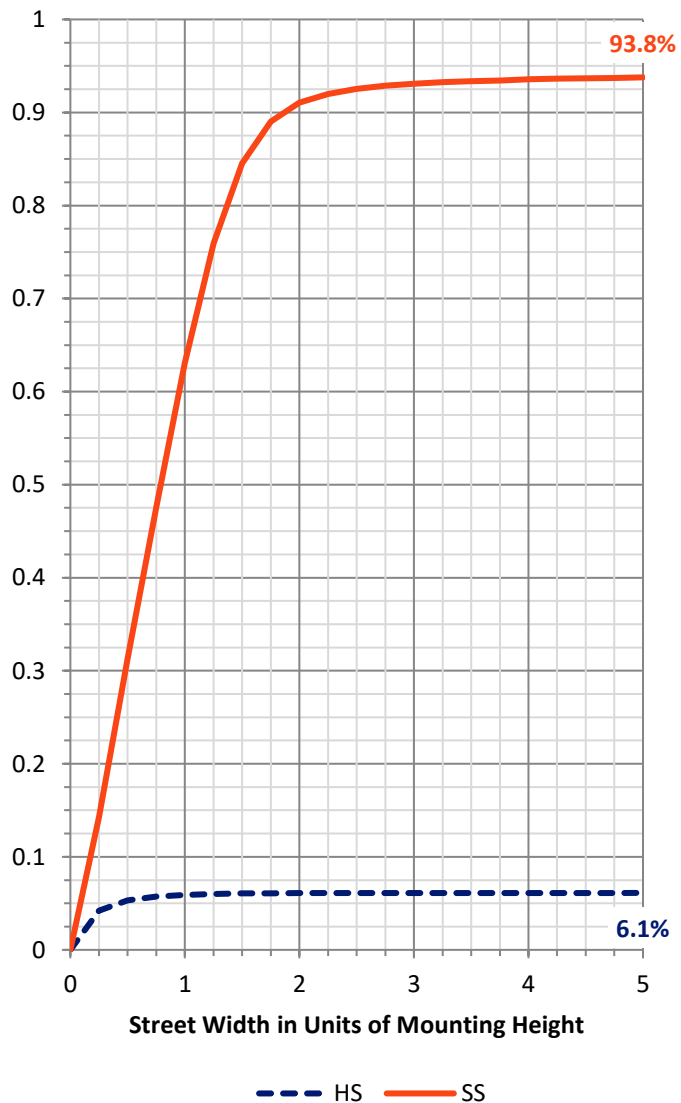
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.1	0.0	276.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4196.3	0.0	4196.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	4472.5	0.0	4472.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	1.1
10°-20°	138.8	3.1
20°-30°	239.7	5.4
30°-40°	432.5	9.7
40°-50°	781.2	17.5
50°-60°	1217.9	27.2
60°-70°	1157.0	25.9
70°-80°	433.6	9.7
80°-90°	24.5	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°	4472.5	100.0
0°-180°	4472.5	100.0

Coefficient of Utilization

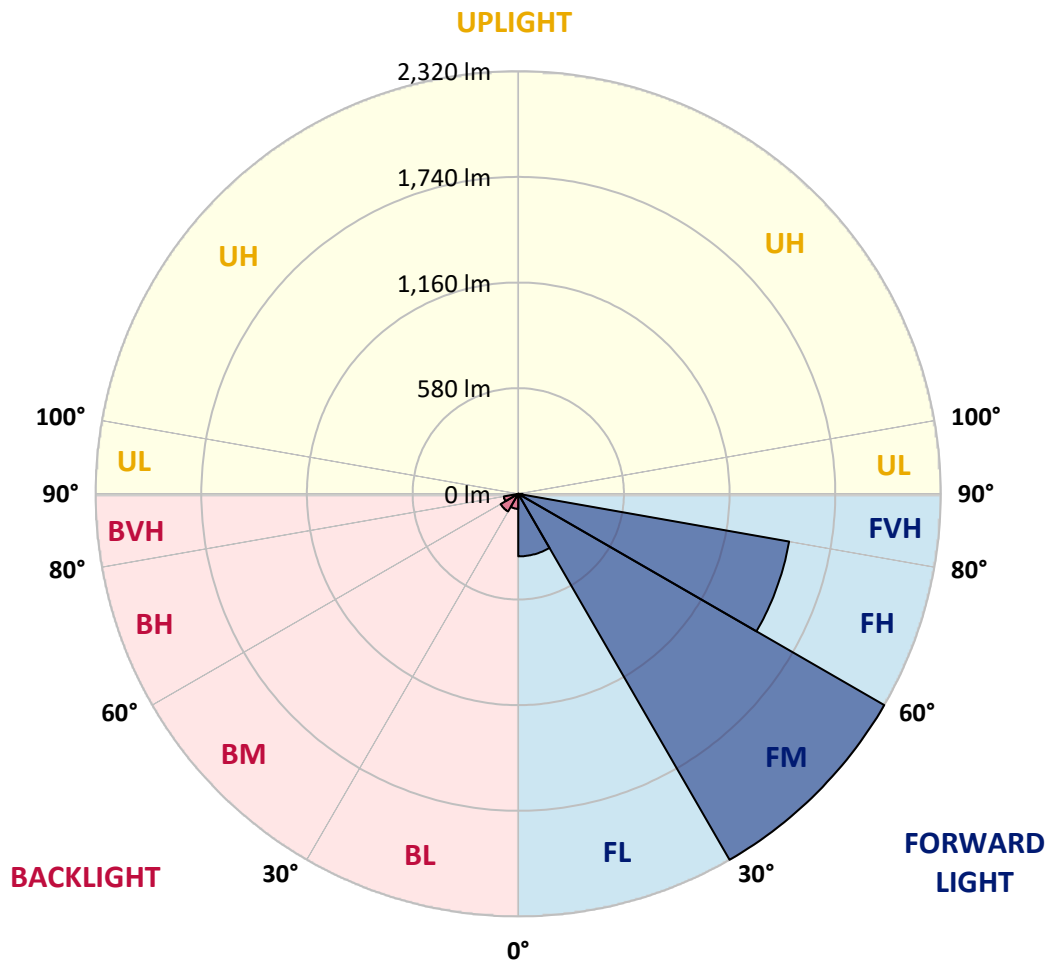


REPORT NUMBER: P650700
 CATALOG NUMBER: GALN-SA1C-840-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.3	7.7			
FM (30°-60°)	2319.9	51.9			
FH (60°-80°)	1510.0	33.8			G1/1800
FVH (80°-90°)	23.2	0.5			G1/100
BL (0°-30°)	82.5	1.8	B0/110		
BM (30°-60°)	111.8	2.5	B0/220		
BH (60°-80°)	80.6	1.8	B0/110		G0/110
BVH (80°-90°)	1.3	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





REPORT NUMBER: P650700

CATALOG NUMBER: GALN-SA1C-840-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	584.3	577.1	579.4	576.1	568.4	557.2	547.3	533.1	518.9	516.5	500.6
5°	661.4	659.4	656.7	647.1	641.9	624.7	604.2	579.7	550.3	545.0	516.2
7.5°	714.0	713.0	714.3	709.4	704.8	689.2	667.3	633.9	588.3	585.3	537.4
10°	731.2	733.9	738.8	746.7	754.0	749.0	732.5	690.8	637.6	629.0	561.5
12.5°	721.2	724.3	736.1	757.3	780.8	794.3	787.8	757.3	689.9	682.9	588.6
15°	695.8	699.5	716.3	749.0	791.0	829.4	846.0	824.1	750.7	739.4	621.4
17.5°	658.1	663.4	687.5	730.8	788.4	854.5	901.1	893.9	815.5	804.9	657.1
20°	629.7	633.6	654.1	703.7	777.2	868.4	953.8	974.2	895.5	877.3	699.1
22.5°	648.5	649.8	656.7	686.5	757.0	872.0	1000.0	1057.9	980.5	964.3	742.8
25°	740.8	727.5	720.6	714.0	752.7	868.8	1042.0	1145.2	1065.2	1048.0	786.1
27.5°	886.2	880.4	845.3	798.3	789.4	873.0	1069.8	1227.9	1144.9	1126.4	828.4
30°	1044.7	1034.4	1012.9	944.1	875.1	903.5	1090.0	1308.3	1239.1	1214.7	867.1
32.5°	1190.2	1196.8	1164.7	1094.0	1013.9	968.3	1116.1	1395.9	1347.3	1316.8	912.1
35°	1359.8	1373.1	1323.8	1256.0	1162.4	1085.4	1167.1	1494.8	1484.5	1446.2	981.5
37.5°	1532.1	1540.0	1510.0	1414.7	1330.4	1234.2	1262.9	1616.8	1653.5	1620.8	1064.5
40°	1677.0	1687.9	1665.8	1581.1	1491.1	1406.5	1402.2	1749.7	1854.6	1820.8	1188.2
42.5°	1787.8	1796.0	1796.7	1736.8	1655.8	1617.5	1579.7	1919.4	2106.5	2067.5	1331.7
45°	1927.7	1939.5	1932.6	1891.9	1831.4	1824.5	1805.0	2124.5	2408.1	2358.9	1517.9
47.5°	2144.0	2151.9	2134.7	2086.7	2025.2	2036.1	2024.5	2354.2	2715.7	2673.4	1710.7
50°	2294.1	2307.3	2331.8	2350.9	2306.3	2266.0	2231.6	2568.9	3007.8	2969.7	1907.8
52.5°	2292.4	2314.3	2391.6	2488.2	2585.7	2573.5	2474.6	2806.0	3286.5	3239.5	2093.0
55°	2138.0	2180.3	2294.1	2465.4	2735.5	2870.2	2825.2	3080.5	3527.2	3495.5	2307.6
57.5°	1819.2	1845.0	2003.0	2242.4	2651.9	3009.7	3231.3	3452.5	3816.0	3801.1	2641.0
60°	1223.6	1235.2	1438.5	1734.6	2257.7	2870.5	3528.9	3902.6	4171.4	4164.2	3030.2
62.5°	701.1	706.0	853.5	1103.2	1606.6	2432.6	3554.1	4457.8	4597.7	4601.7	3480.6
65°	377.4	380.0	499.0	647.5	977.6	1733.9	3195.9	4762.1	4942.3	4950.0	3759.7
66°	325.7	313.2	397.2	551.9	777.8	1380.0	2969.3	4751.1	5008.5	5000.2	3749.8
67.5°	247.7	258.9	317.1	424.3	576.4	981.2	2451.5	4539.9	4958.2	4932.4	3597.4
70°	177.3	181.9	225.9	302.6	392.6	538.4	1566.5	3770.6	4506.4	4471.8	3134.1
72.5°	114.5	119.4	160.0	218.9	283.8	294.0	877.0	2724.3	3474.3	3469.4	2360.2
75°	81.7	86.3	105.8	156.8	213.3	181.9	422.3	1836.1	2208.7	2193.8	1460.1
77.5°	59.2	61.5	70.7	102.5	152.5	130.3	195.8	980.5	1099.6	1151.5	645.2
80°	34.1	36.1	49.3	62.5	103.2	89.0	93.6	393.5	405.8	386.3	201.8
82.5°	16.9	19.2	29.4	42.6	64.5	59.9	43.0	118.4	125.0	121.7	51.0
85°	4.0	5.0	16.6	28.1	31.5	26.8	20.9	34.7	43.0	42.0	19.5
87.5°	0.3	0.7	6.0	5.0	5.3	8.9	7.3	8.9	13.9	12.9	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650700
 CATALOG NUMBER: GALN-SA1C-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	493.4	487.1	468.9	451.1	436.2	420.7	406.5	398.1	394.8	391.2	392.8
5°	500.3	485.2	448.4	416.7	385.6	359.1	338.0	324.5	317.8	316.8	315.1
7.5°	509.6	483.5	426.6	377.0	336.3	306.9	282.7	263.2	257.3	252.0	247.7
10°	520.8	480.5	399.5	335.3	292.0	255.0	223.2	200.1	188.1	184.9	187.2
12.5°	532.8	474.9	371.0	297.0	247.0	199.7	170.3	158.7	155.4	154.1	154.4
15°	544.6	467.9	341.3	260.0	196.8	159.4	145.8	142.9	141.5	140.9	140.2
17.5°	555.6	456.7	307.9	223.9	159.4	136.2	131.3	128.7	126.0	125.0	123.4
20°	568.4	443.8	277.8	183.5	134.9	123.4	117.4	112.4	108.5	105.8	105.5
22.5°	580.7	427.2	246.4	152.1	123.0	110.8	101.2	95.9	91.2	88.0	89.0
25°	587.4	407.1	218.2	132.6	112.1	98.2	87.6	81.0	76.0	74.4	74.1
27.5°	587.4	382.3	190.8	121.4	102.2	87.0	76.0	69.8	66.4	64.2	64.5
30°	582.7	354.8	165.3	112.8	93.6	77.0	66.8	61.1	58.5	56.9	56.5
32.5°	579.0	328.7	143.6	104.5	84.7	68.5	59.5	55.3	52.6	51.0	51.0
35°	584.7	306.2	126.7	96.2	76.4	61.8	53.9	50.0	47.3	46.0	45.7
37.5°	599.5	285.7	113.8	87.3	68.8	56.2	50.0	45.3	42.6	41.0	40.4
40°	636.3	274.2	104.2	79.1	61.5	51.6	45.3	41.0	37.7	36.1	35.7
42.5°	695.2	274.5	94.9	71.4	55.9	47.6	41.4	36.4	32.7	31.1	30.8
45°	783.7	287.0	87.6	64.2	51.0	43.3	37.0	31.7	28.4	26.8	26.8
47.5°	889.9	311.5	81.3	57.9	46.3	39.4	32.7	27.4	24.1	22.8	22.8
50°	1005.0	343.3	75.1	51.2	42.3	35.1	28.1	23.8	21.2	20.2	20.2
52.5°	1122.4	381.6	68.8	46.0	38.0	30.4	24.1	21.2	18.8	18.2	17.8
55°	1276.5	430.6	62.1	40.4	33.4	26.2	21.5	18.5	15.9	14.9	14.5
57.5°	1513.6	504.3	54.9	35.4	27.4	21.9	18.5	15.6	12.5	10.9	10.6
60°	1799.7	594.3	47.3	31.1	22.1	17.8	14.9	11.9	9.3	7.3	7.0
62.5°	2067.5	651.4	40.0	26.2	17.5	13.5	10.6	8.9	6.6	4.6	4.3
65°	2185.9	632.3	33.1	21.2	13.9	9.6	7.0	6.3	4.0	2.0	1.7
66°	2146.6	603.8	30.4	19.2	12.5	8.2	6.0	5.3	2.9	1.0	1.0
67.5°	2030.5	536.7	26.5	16.6	10.9	6.6	4.6	4.0	1.7	0.3	0.0
70°	1739.8	434.2	20.9	12.2	7.9	4.6	2.6	2.0	1.0	0.0	0.0
72.5°	1336.3	323.4	16.6	9.3	5.6	2.6	1.3	0.7	1.0	0.0	0.0
75°	818.8	184.9	12.9	7.0	3.6	1.7	1.0	0.0	1.0	0.3	0.0
77.5°	363.5	83.0	8.6	4.6	2.6	1.3	0.7	0.0	0.7	0.3	0.0
80°	91.9	27.1	5.0	3.3	2.0	1.0	0.3	0.0	0.7	0.7	0.3
82.5°	25.1	9.9	3.6	2.6	1.7	1.0	0.3	0.0	0.7	0.7	0.7
85°	9.9	4.6	3.3	2.6	2.0	1.0	0.3	0.0	0.7	0.7	0.7
87.5°	4.6	3.3	3.3	2.9	2.4	1.0	0.3	0.0	0.7	0.3	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)