

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: P646743

Luminaire Tested: **GALN-SA1C-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.2 lumens
Efficiency: N/A
Efficacy: 78.2 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

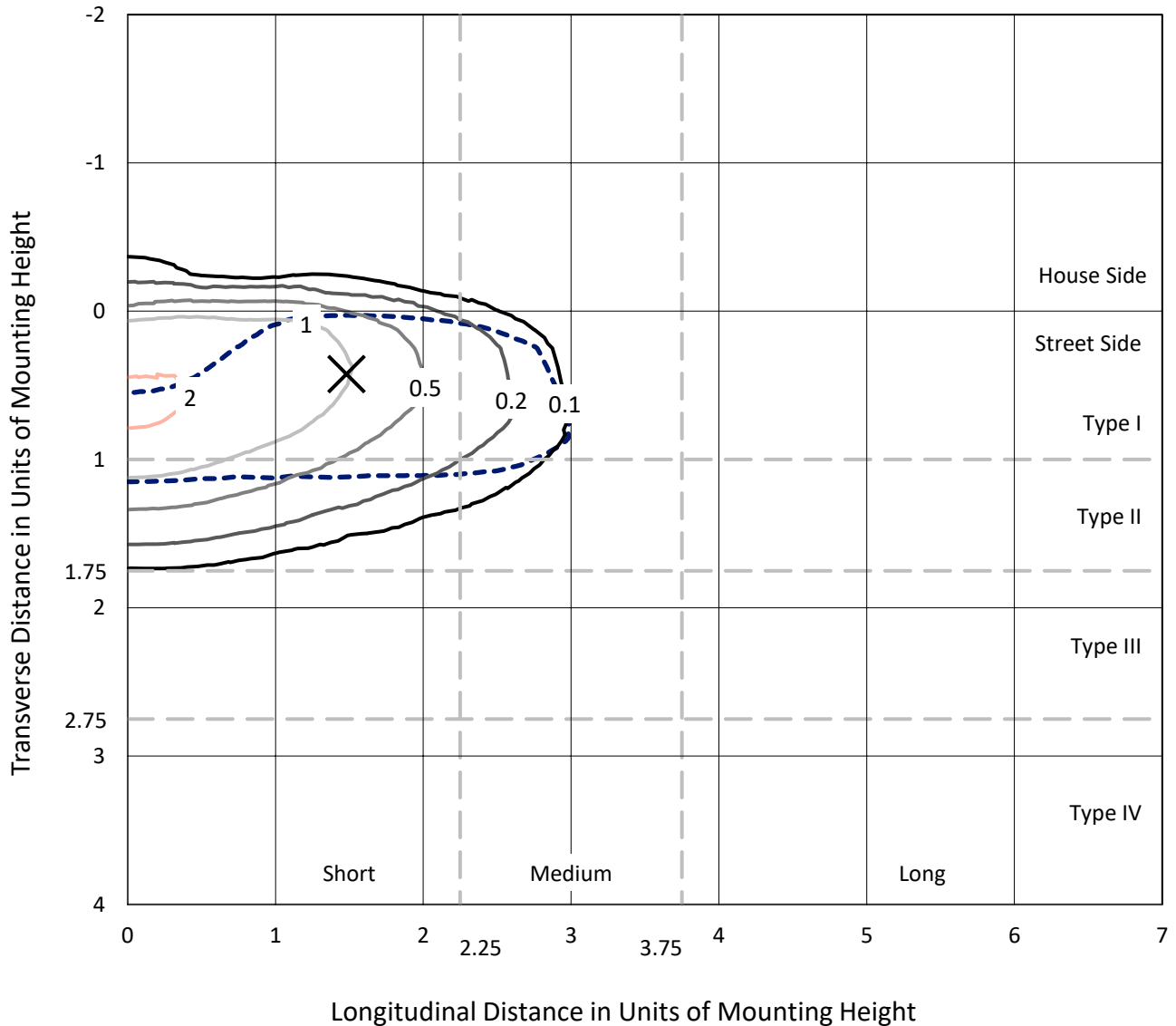
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

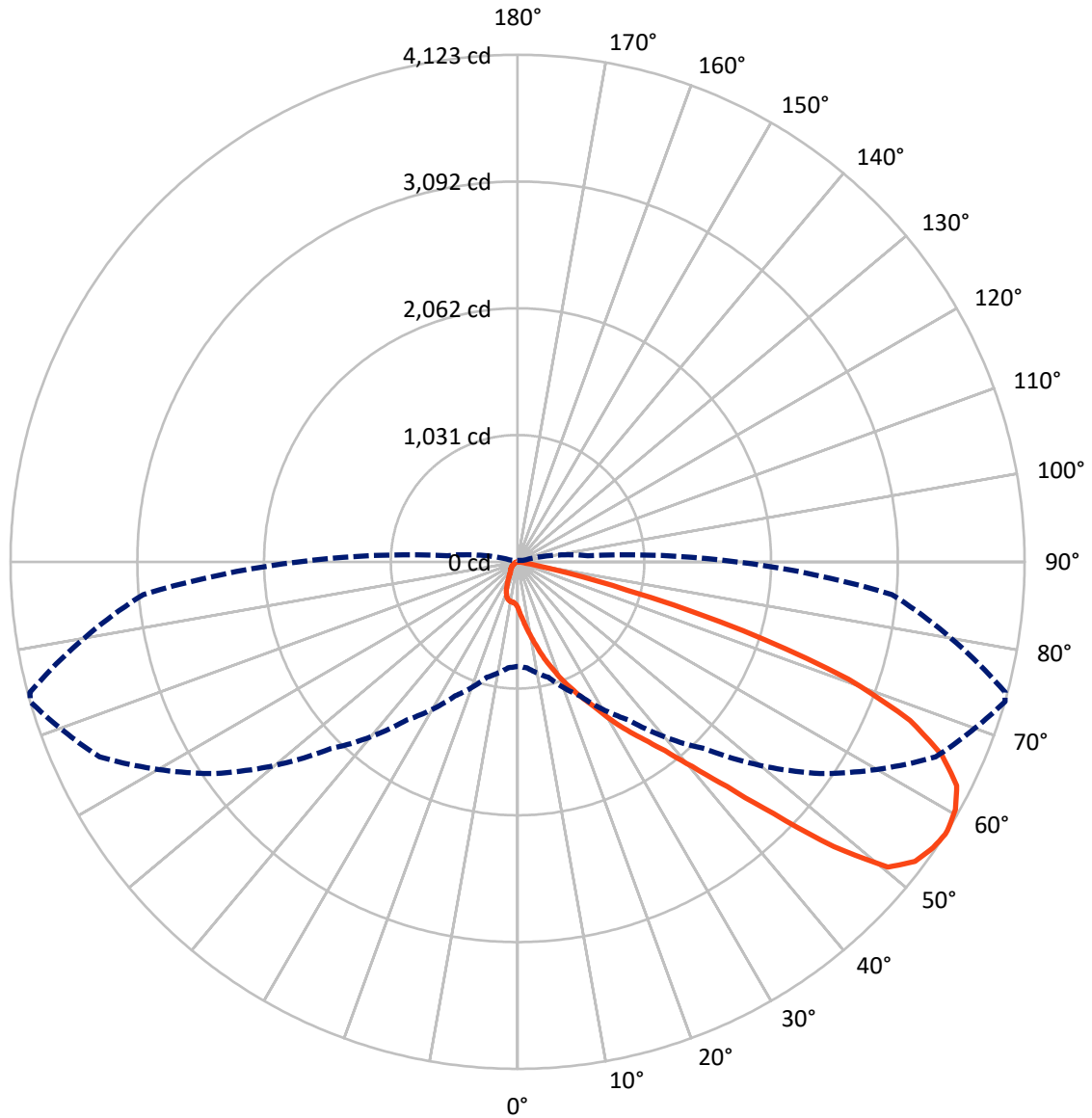
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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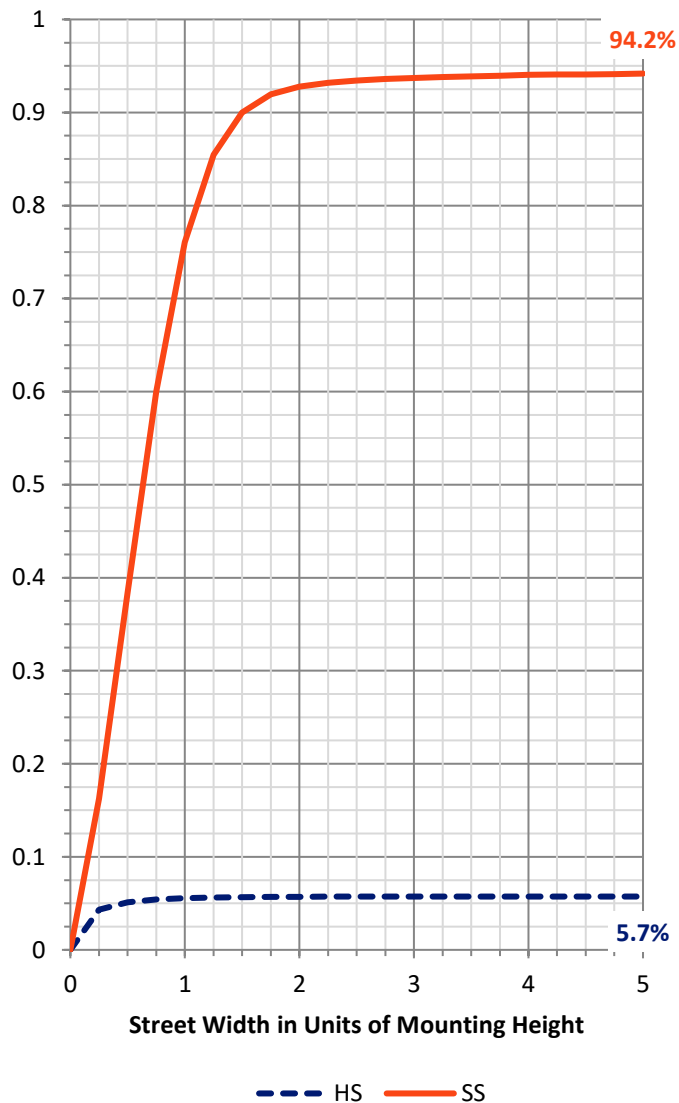
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.2	0.0	257.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4202.0	0.0	4202.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	4459.2	0.0	4459.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.0
10°-20°	177.7	4.0
20°-30°	380.2	8.5
30°-40°	698.8	15.7
40°-50°	1071.2	24.0
50°-60°	1133.2	25.4
60°-70°	740.0	16.6
70°-80°	202.2	4.5
80°-90°	10.9	0.2
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°	4459.2	100.0
0°-180°	4459.2	100.0

Coefficient of Utilization

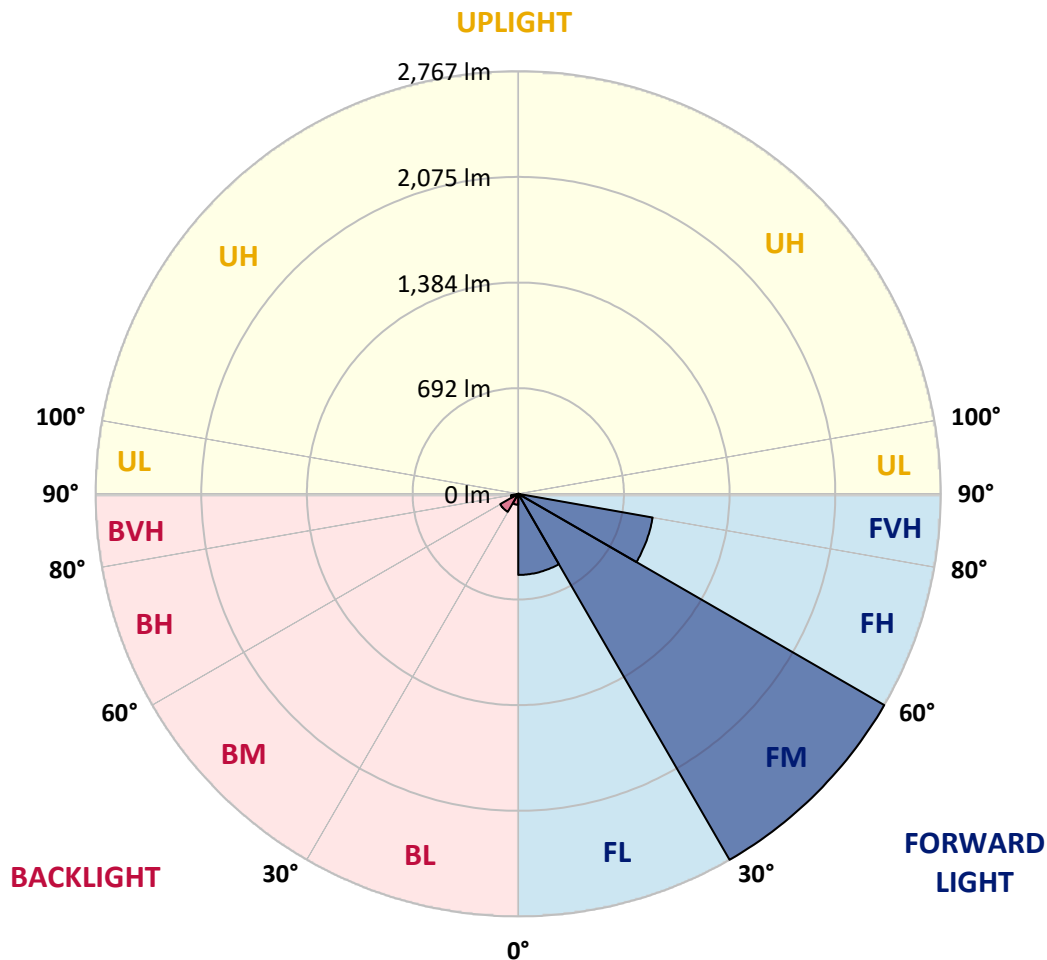


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.1	11.9			
FM (30°-60°)	2767.0	62.1			
FH (60°-80°)	893.9	20.0			G1/1800
FVH (80°-90°)	10.0	0.2			G0/10
BL (0°-30°)	71.8	1.6	B0/110		
BM (30°-60°)	136.2	3.1	B0/220		
BH (60°-80°)	48.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	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°	74°	75°	85°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	546.5	541.5	531.7	528.3	513.8	491.3	471.7	445.2	424.2	422.1	396.8
5°	731.8	720.8	716.1	694.0	659.1	626.6	570.5	528.0	479.0	475.4	424.5
7.5°	910.4	895.0	890.3	869.4	828.8	777.4	704.7	627.4	549.9	542.8	461.8
10°	1039.7	1041.9	1033.6	1019.7	986.7	934.4	844.8	739.2	628.7	619.7	503.7
12.5°	1132.4	1132.1	1133.6	1133.3	1115.7	1076.0	981.8	860.2	715.5	698.0	551.7
15°	1192.7	1193.6	1198.2	1214.3	1216.1	1191.5	1113.0	975.9	816.2	794.4	603.8
17.5°	1253.7	1260.2	1267.5	1282.6	1296.2	1286.3	1230.9	1096.7	907.3	891.0	659.4
20°	1354.4	1363.3	1359.0	1368.2	1375.3	1376.2	1333.4	1208.1	1017.8	990.4	723.2
22.5°	1515.3	1515.0	1504.0	1487.3	1473.4	1472.9	1434.1	1322.6	1118.2	1091.7	787.2
25°	1718.8	1719.8	1698.2	1650.8	1616.3	1574.1	1529.5	1423.0	1225.6	1193.0	854.6
27.5°	1952.3	1946.4	1913.7	1848.5	1780.2	1708.1	1643.8	1539.7	1339.6	1312.5	931.9
30°	2161.9	2159.7	2121.5	2041.8	1951.9	1879.6	1786.3	1686.0	1487.0	1453.8	1018.4
32.5°	2357.1	2360.2	2307.2	2224.7	2137.9	2054.4	1955.9	1825.7	1631.7	1584.6	1112.6
35°	2509.5	2512.6	2457.8	2389.1	2299.8	2230.5	2136.7	1974.7	1774.6	1734.9	1221.0
37.5°	2590.8	2594.8	2563.1	2511.3	2455.6	2420.8	2333.3	2166.5	1948.3	1924.2	1349.1
40°	2606.1	2610.8	2596.9	2583.0	2580.0	2604.9	2579.4	2392.5	2189.0	2151.4	1540.0
42.5°	2559.9	2566.1	2572.3	2603.1	2665.9	2757.3	2846.3	2699.2	2499.0	2448.5	1773.3
45°	2438.7	2438.0	2462.4	2542.1	2682.8	2878.0	3125.3	3083.1	2921.5	2861.4	2103.1
47.5°	2231.2	2228.1	2280.7	2394.3	2613.6	2900.2	3352.7	3549.2	3460.5	3405.1	2457.4
50°	1915.0	1930.1	2012.9	2171.4	2441.5	2833.1	3423.0	3854.9	3902.9	3844.1	2743.8
52.5°	1544.6	1544.0	1673.9	1889.1	2186.5	2685.3	3374.0	3910.3	4046.7	4001.8	2884.8
55°	1143.1	1151.2	1286.3	1503.4	1855.6	2415.6	3214.2	3853.4	4101.5	4069.8	2977.7
57°	850.3	864.5	972.9	1202.5	1567.4	2148.6	3001.5	3751.4	4123.0	4105.8	3055.0
57.5°	793.7	794.4	899.9	1108.6	1483.0	2046.1	2940.5	3709.0	4122.4	4112.9	3067.6
60°	488.6	504.0	577.0	749.3	1085.6	1596.9	2532.0	3464.8	4090.4	4104.3	3121.5
62.5°	292.5	298.9	346.3	451.6	699.8	1165.6	2072.0	3152.4	4007.0	4049.1	3117.8
65°	188.1	189.6	211.2	273.4	437.5	787.9	1596.6	2739.5	3791.1	3868.7	2995.9
67.5°	145.3	147.8	156.4	179.5	253.7	490.8	1129.2	2298.9	3442.1	3542.1	2700.3
70°	129.0	130.2	133.3	140.7	167.8	277.1	702.6	1795.8	2854.3	2882.6	2113.2
72.5°	105.3	108.7	118.2	120.7	133.0	173.0	391.0	1205.4	1917.7	1924.8	1182.3
75°	81.6	82.2	96.4	103.4	112.0	119.2	174.5	607.8	921.1	871.9	455.6
77.5°	61.0	63.7	70.2	79.2	91.5	85.3	78.2	229.0	286.0	280.8	132.4
80°	39.1	40.6	48.9	59.4	71.1	55.7	44.0	67.1	62.8	64.7	31.7
82.5°	19.7	20.0	31.4	48.3	45.3	28.0	27.7	27.4	23.4	23.1	14.8
85°	2.2	4.6	20.4	27.7	20.4	9.2	12.9	12.6	12.3	12.6	8.6
87.5°	0.3	0.3	3.4	4.0	2.7	3.1	3.7	4.0	4.9	4.6	3.7
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°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	384.5	372.2	349.5	327.6	311.2	300.8	287.3	282.3	275.2	274.3	270.9
5°	401.1	377.8	338.0	306.6	281.4	262.3	245.7	231.8	220.7	218.3	219.5
7.5°	424.9	390.1	334.7	291.9	256.7	224.1	197.6	181.3	169.7	165.3	165.9
10°	451.6	406.4	334.0	276.2	222.6	182.6	153.6	139.1	132.4	129.9	127.2
12.5°	483.3	425.2	332.5	251.8	185.0	145.6	125.0	116.4	109.9	108.1	108.1
15°	519.1	445.2	325.1	221.7	150.3	120.3	106.5	99.8	97.6	95.8	95.8
17.5°	556.3	464.9	309.8	184.4	124.7	103.1	94.5	90.5	87.5	85.3	85.3
20°	598.8	484.3	285.1	151.5	105.3	92.1	85.3	80.6	78.2	76.3	75.7
22.5°	639.2	500.0	253.7	124.4	91.8	82.8	76.7	71.7	69.3	68.4	68.4
25°	681.1	509.5	215.8	102.8	83.7	75.1	68.4	64.4	62.2	61.5	61.2
27.5°	721.7	515.1	182.6	89.9	76.3	68.0	61.5	58.5	56.4	55.7	56.1
30°	770.9	516.0	150.3	80.6	69.9	61.2	55.4	52.6	51.4	50.8	50.5
32.5°	820.8	514.7	126.2	75.1	63.7	55.4	50.5	48.3	47.4	46.5	46.5
35°	876.8	508.3	107.4	69.6	57.9	50.5	46.2	44.3	43.1	42.2	41.9
37.5°	946.4	504.9	96.7	63.4	52.6	45.9	41.9	40.0	39.1	37.9	37.6
40°	1056.0	520.0	93.3	57.9	47.4	41.6	37.9	35.7	34.5	33.3	33.0
42.5°	1192.7	546.5	87.8	52.3	42.8	37.6	33.9	31.4	29.3	27.7	27.1
45°	1369.7	581.3	79.2	46.5	38.8	33.3	29.8	26.8	24.0	22.8	22.5
47.5°	1555.4	614.8	71.4	41.9	34.5	29.5	25.8	22.5	20.0	19.1	18.8
50°	1669.3	621.6	66.5	36.6	30.1	25.5	21.8	18.8	17.2	16.3	16.3
52.5°	1721.3	610.8	59.7	32.0	26.2	22.5	18.8	16.3	15.4	14.8	14.5
55°	1757.7	594.2	50.8	27.7	22.5	19.1	16.6	14.8	13.5	12.9	12.6
57°	1778.9	571.7	44.0	24.4	19.4	16.6	14.8	13.2	12.0	10.8	10.8
57.5°	1779.8	563.1	42.2	24.0	18.5	16.0	14.5	12.9	11.4	10.2	9.9
60°	1752.4	504.0	33.9	20.4	14.8	13.5	12.0	10.2	8.0	6.8	6.5
62.5°	1664.3	428.8	28.0	17.2	12.0	10.5	8.6	7.7	5.6	4.0	4.0
65°	1531.1	347.9	24.0	13.9	9.9	7.7	5.9	5.6	3.4	1.9	1.6
67.5°	1338.3	270.9	20.4	11.4	8.3	5.6	4.0	3.7	1.9	0.6	0.0
70°	1019.7	184.7	16.9	9.2	6.2	4.0	2.7	2.2	1.3	0.3	0.0
72.5°	587.7	101.6	14.2	7.0	4.6	3.1	2.2	1.3	1.3	0.0	0.0
75°	210.0	43.7	10.8	5.2	3.7	2.4	1.6	0.6	0.9	0.3	0.0
77.5°	66.8	23.4	7.0	4.0	3.1	1.9	1.3	0.6	0.6	0.3	0.0
80°	19.7	12.3	4.3	3.4	2.2	1.6	0.9	0.3	0.6	0.3	0.0
82.5°	10.8	6.2	3.4	2.4	2.2	1.3	0.9	0.3	0.3	0.3	0.0
85°	5.6	3.7	2.7	2.4	2.2	1.3	0.9	0.3	0.0	0.3	0.3
87.5°	3.1	2.7	2.7	2.4	2.2	1.6	0.9	0.3	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)