

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: P647238

Luminaire Tested: **GALN-SA1D-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647238
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-SA1D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA 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: 4907.1 lumens
Efficiency: N/A
Efficacy: 75.5 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

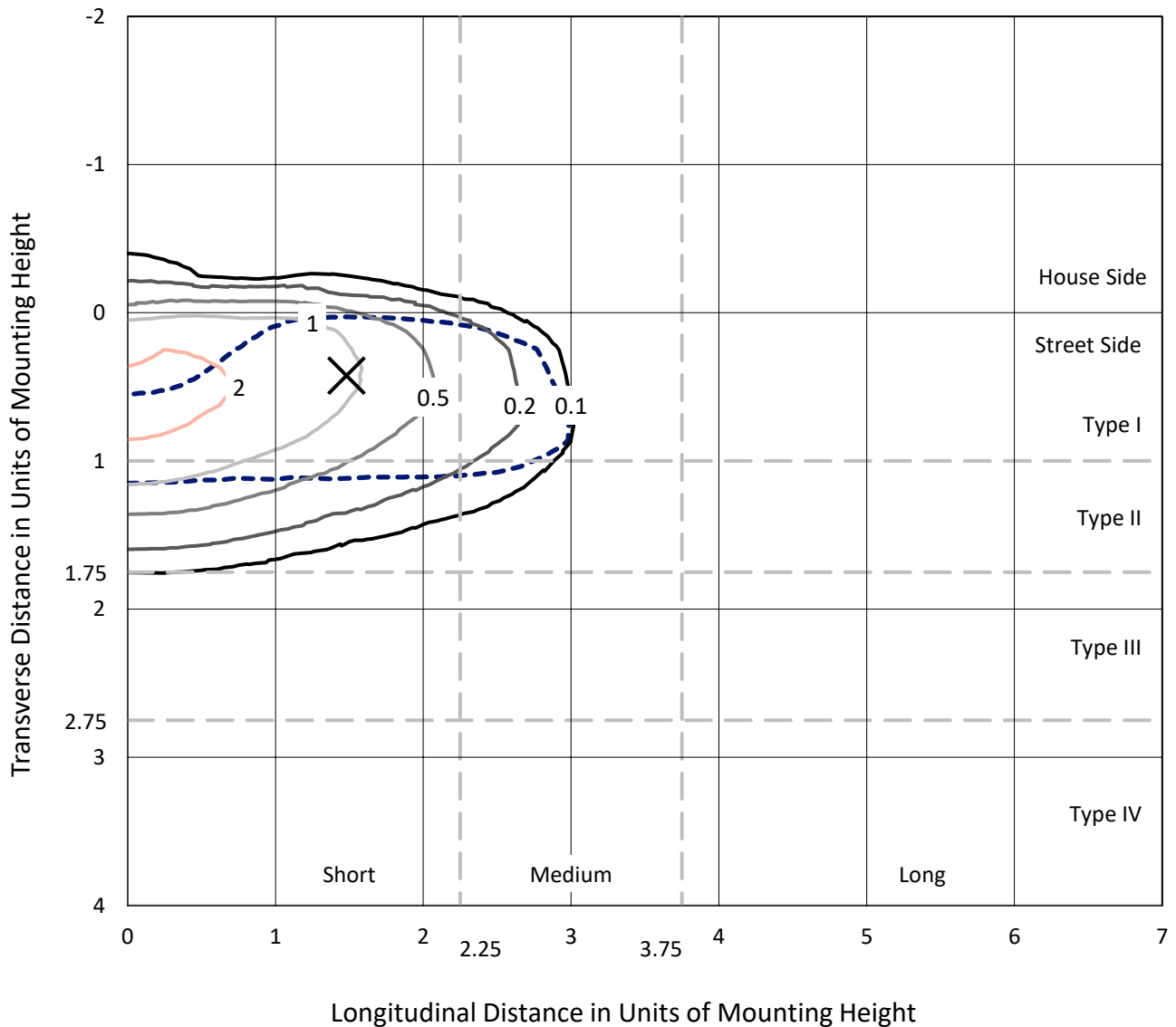
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

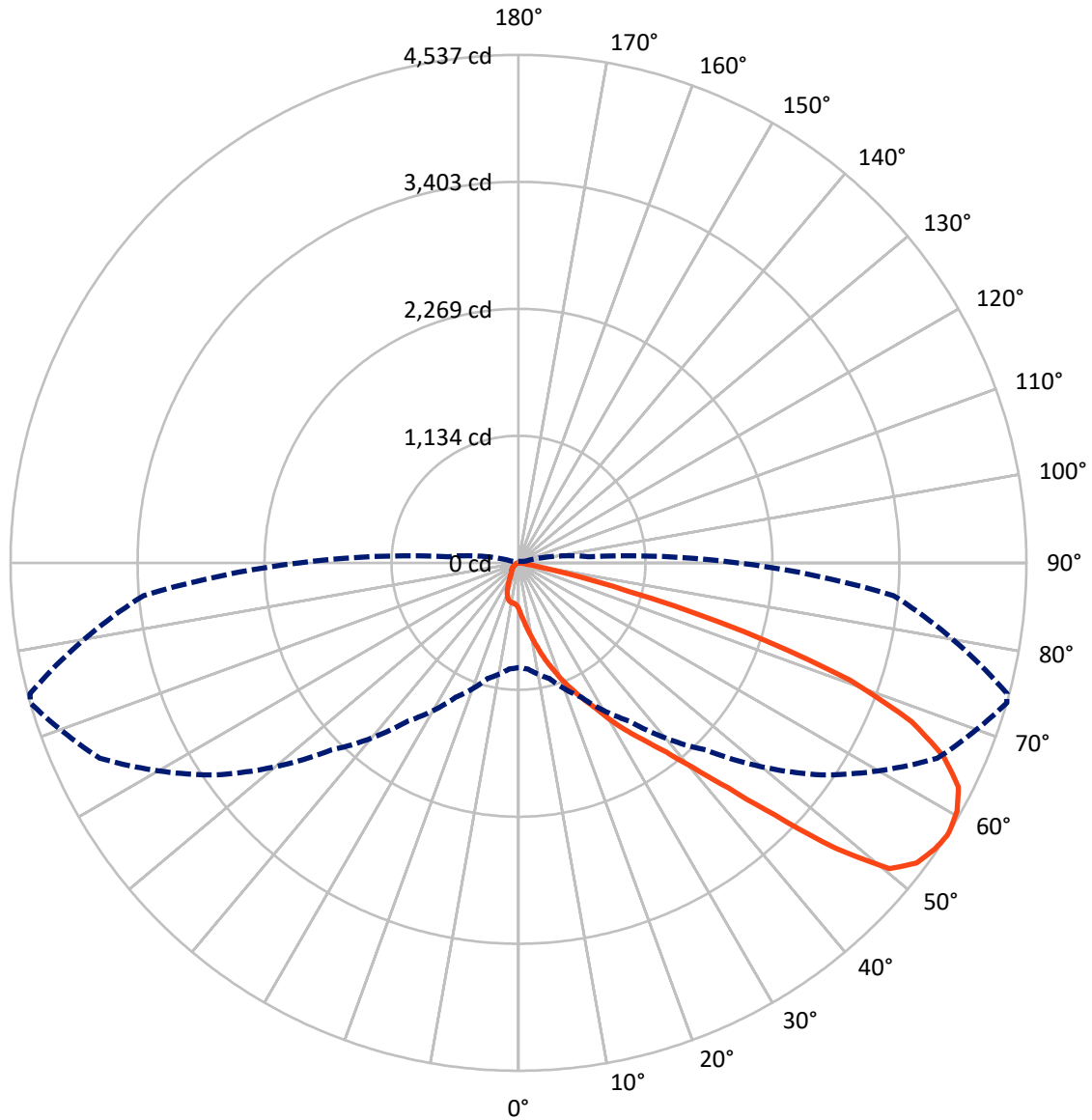
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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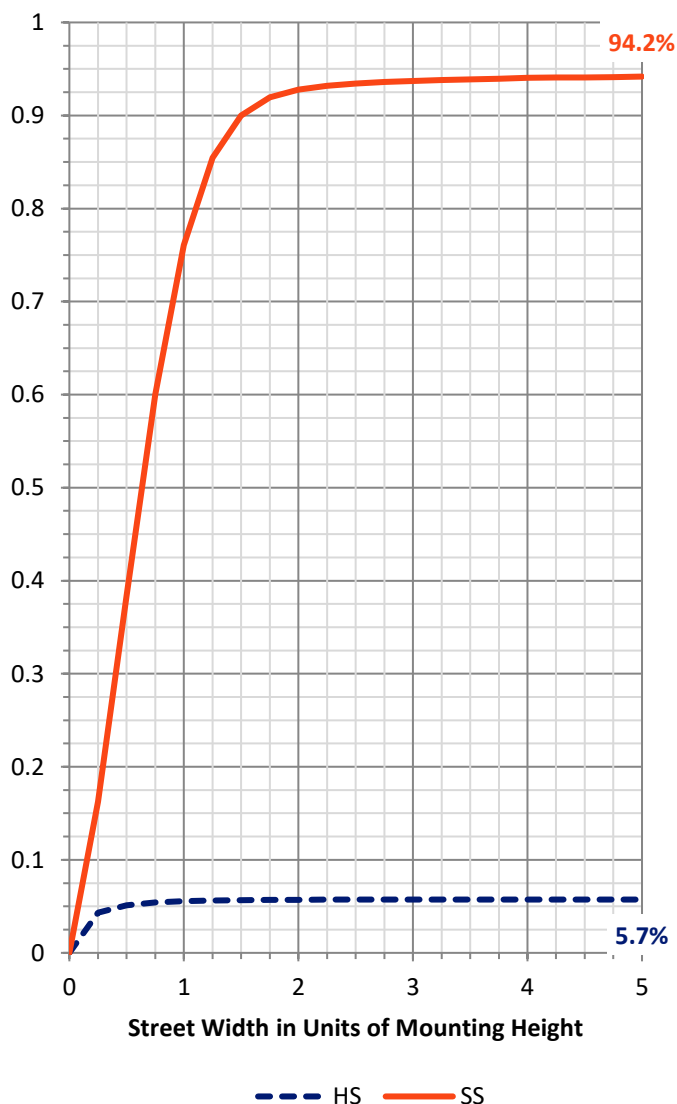
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	283.0	0.0	283.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4624.0	0.0	4624.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	4907.1	0.0	4907.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	1.0
10°-20°	195.5	4.0
20°-30°	418.4	8.5
30°-40°	768.9	15.7
40°-50°	1178.8	24.0
50°-60°	1247.0	25.4
60°-70°	814.3	16.6
70°-80°	222.5	4.5
80°-90°	12.0	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°	4907.1	100.0
0°-180°	4907.1	100.0

Coefficient of Utilization

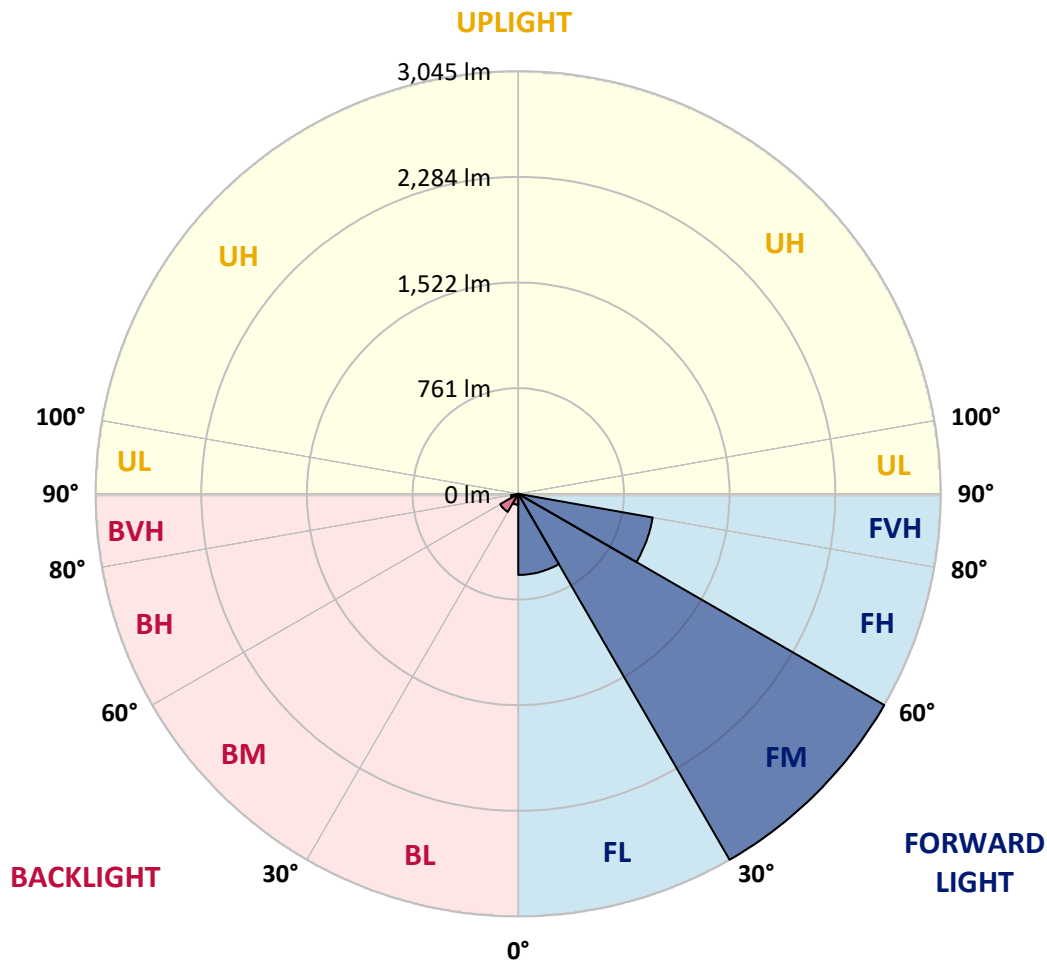


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.4	11.9			
FM (30°-60°)	3044.9	62.1			
FH (60°-80°)	983.7	20.0			G1/1800
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	79.1	1.6	B0/110		
BM (30°-60°)	149.8	3.1	B0/220		
BH (60°-80°)	53.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	601.3	595.9	585.1	581.4	565.5	540.7	519.1	489.9	466.8	464.5	436.7
5°	805.3	793.1	788.0	763.7	725.4	689.4	627.8	581.1	527.2	523.1	467.2
7.5°	1001.8	984.9	979.8	956.7	912.0	855.4	775.5	690.4	605.1	597.3	508.2
10°	1144.1	1146.5	1137.3	1122.1	1085.9	1028.2	929.7	813.5	691.9	682.0	554.3
12.5°	1246.1	1245.8	1247.5	1247.1	1227.8	1184.1	1080.4	946.6	787.4	768.0	607.1
15°	1312.5	1313.5	1318.6	1336.2	1338.2	1311.1	1224.8	1074.0	898.2	874.1	664.4
17.5°	1379.6	1386.7	1394.8	1411.4	1426.3	1415.5	1354.5	1206.8	998.4	980.5	725.7
20°	1490.4	1500.2	1495.5	1505.6	1513.4	1514.4	1467.3	1329.5	1120.1	1089.9	795.8
22.5°	1667.6	1667.2	1655.0	1636.7	1621.5	1620.8	1578.1	1455.4	1230.5	1201.4	866.3
25°	1891.5	1892.5	1868.8	1816.6	1778.7	1732.2	1683.1	1565.9	1348.7	1312.9	940.5
27.5°	2148.3	2141.9	2106.0	2034.2	1958.9	1879.7	1808.8	1694.3	1474.1	1444.3	1025.6
30°	2379.0	2376.6	2334.7	2246.9	2148.0	2068.4	1965.7	1855.2	1636.4	1599.8	1120.7
32.5°	2593.8	2597.2	2539.0	2448.1	2352.6	2260.8	2152.4	2009.1	1795.7	1743.8	1224.4
35°	2761.6	2764.9	2704.6	2629.1	2530.8	2454.5	2351.3	2173.1	1952.8	1909.1	1343.6
37.5°	2851.0	2855.4	2820.4	2763.6	2702.2	2663.9	2567.8	2384.1	2143.9	2117.5	1484.6
40°	2867.9	2873.0	2857.7	2842.5	2839.1	2866.6	2838.5	2632.8	2408.8	2367.5	1694.6
42.5°	2817.1	2823.9	2830.6	2864.5	2933.7	3034.3	3132.2	2970.2	2750.0	2694.5	1951.5
45°	2683.6	2682.9	2709.7	2797.4	2952.3	3167.1	3439.1	3392.7	3214.8	3148.8	2314.3
47.5°	2455.3	2451.9	2509.8	2634.8	2876.0	3191.4	3689.5	3905.7	3808.0	3747.1	2704.2
50°	2107.3	2123.9	2215.0	2389.6	2686.6	3117.6	3766.7	4242.1	4294.9	4230.2	3019.3
52.5°	1699.7	1699.0	1842.0	2078.9	2406.2	2955.0	3712.9	4303.1	4453.2	4403.7	3174.5
55°	1258.0	1266.7	1415.5	1654.3	2041.9	2658.2	3537.0	4240.3	4513.4	4478.5	3276.9
57°	935.8	951.3	1070.6	1323.3	1724.8	2364.4	3302.9	4128.2	4537.2	4518.2	3361.9
57.5°	873.4	874.1	990.3	1220.0	1632.0	2251.7	3235.8	4081.5	4536.5	4526.0	3375.7
60°	537.7	554.6	634.9	824.7	1194.6	1757.4	2786.2	3812.8	4501.2	4516.5	3435.0
62.5°	321.9	328.9	381.2	497.0	770.1	1282.7	2280.1	3468.9	4409.5	4455.8	3431.0
65°	207.0	208.7	232.4	300.8	481.5	867.0	1757.0	3014.6	4171.9	4257.3	3296.8
67.5°	159.9	162.6	172.1	197.6	279.1	540.0	1242.7	2529.8	3787.8	3897.9	2971.6
70°	142.0	143.3	146.7	154.8	184.6	304.9	773.1	1976.2	3141.0	3172.2	2325.5
72.5°	115.9	119.6	130.1	132.8	146.3	190.4	430.3	1326.4	2110.3	2118.2	1301.0
75°	89.8	90.4	106.0	113.8	123.3	131.2	192.1	668.8	1013.7	959.5	501.4
77.5°	67.1	70.2	77.3	87.1	100.6	93.9	86.1	252.0	314.8	309.0	145.7
80°	43.1	44.7	53.9	65.4	78.3	61.3	48.5	73.8	69.1	71.2	34.9
82.5°	21.7	22.0	34.5	53.2	49.8	30.9	30.5	30.1	25.8	25.4	16.3
85°	2.3	5.1	22.4	30.5	22.4	10.2	14.3	13.9	13.5	13.9	9.5
87.5°	0.3	0.3	3.8	4.4	3.1	3.4	4.1	4.4	5.4	5.1	4.1
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°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	423.1	409.6	384.5	360.5	342.5	331.0	316.1	310.7	302.9	301.8	298.2
5°	441.5	415.7	372.0	337.5	309.7	288.7	270.4	255.1	242.9	240.2	241.6
7.5°	467.5	429.2	368.2	321.2	282.6	246.6	217.5	199.6	186.7	182.0	182.6
10°	497.0	447.2	367.6	303.9	244.9	200.9	169.0	153.2	145.7	143.0	139.9
12.5°	531.9	467.8	365.9	277.1	203.6	160.3	137.6	128.1	121.0	118.9	118.9
15°	571.2	489.9	357.8	243.9	165.4	132.5	117.2	109.8	107.4	105.4	105.4
17.5°	612.2	511.6	340.8	203.0	137.2	113.5	104.0	99.6	96.2	93.9	93.9
20°	659.0	532.9	313.7	166.7	115.9	101.3	93.9	88.8	86.1	84.0	83.3
22.5°	703.4	550.2	279.1	136.9	100.9	91.1	84.3	78.9	76.3	75.2	75.2
25°	749.4	560.7	237.5	113.1	92.2	82.7	75.2	70.8	68.4	67.7	67.4
27.5°	794.1	566.8	200.9	98.9	84.0	74.9	67.7	64.4	62.0	61.3	61.6
30°	848.4	567.8	165.4	88.8	76.9	67.4	61.0	57.9	56.6	55.9	55.6
32.5°	903.3	566.5	138.9	82.7	70.2	61.0	55.6	53.2	52.1	51.1	51.1
35°	964.9	559.4	118.2	76.6	63.7	55.6	50.8	48.8	47.4	46.4	46.0
37.5°	1041.5	555.6	106.4	69.8	57.9	50.5	46.0	44.0	43.1	41.7	41.3
40°	1162.1	572.2	102.7	63.7	52.1	45.7	41.7	39.3	38.0	36.6	36.3
42.5°	1312.5	601.3	96.5	57.6	47.1	41.3	37.3	34.5	32.2	30.5	29.8
45°	1507.3	639.6	87.1	51.1	42.7	36.6	32.9	29.4	26.4	25.1	24.7
47.5°	1711.6	676.6	78.6	46.0	38.0	32.5	28.4	24.7	22.0	21.0	20.7
50°	1836.9	684.0	73.2	40.3	33.2	28.1	24.0	20.7	18.9	17.9	17.9
52.5°	1894.2	672.2	65.7	35.2	28.8	24.7	20.7	17.9	16.9	16.3	15.9
55°	1934.2	653.9	55.9	30.5	24.7	21.0	18.3	16.3	14.9	14.3	13.9
57°	1957.6	629.1	48.5	26.8	21.4	18.3	16.3	14.6	13.2	11.8	11.8
57.5°	1958.6	619.7	46.4	26.4	20.4	17.6	15.9	14.3	12.5	11.2	10.8
60°	1928.5	554.6	37.3	22.4	16.3	14.9	13.2	11.2	8.8	7.4	7.1
62.5°	1831.5	471.9	30.9	18.9	13.2	11.5	9.5	8.5	6.1	4.4	4.4
65°	1684.9	382.8	26.4	15.3	10.8	8.5	6.4	6.1	3.8	2.0	1.7
67.5°	1472.7	298.2	22.4	12.5	9.2	6.1	4.4	4.1	2.0	0.7	0.0
70°	1122.1	203.3	18.6	10.2	6.8	4.4	3.1	2.3	1.3	0.3	0.0
72.5°	646.8	111.8	15.6	7.8	5.1	3.4	2.3	1.3	1.3	0.0	0.0
75°	231.1	48.1	11.8	5.8	4.1	2.7	1.7	0.7	1.0	0.3	0.0
77.5°	73.5	25.8	7.8	4.4	3.4	2.0	1.3	0.7	0.7	0.3	0.0
80°	21.7	13.5	4.8	3.8	2.3	1.7	1.0	0.3	0.7	0.3	0.0
82.5°	11.8	6.8	3.8	2.7	2.3	1.3	1.0	0.3	0.3	0.3	0.0
85°	6.1	4.1	3.1	2.7	2.3	1.3	1.0	0.3	0.0	0.3	0.3
87.5°	3.4	3.1	3.1	2.7	2.3	1.7	1.0	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)