

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: P451080

Luminaire Tested: **GALN-SA1D-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6339 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

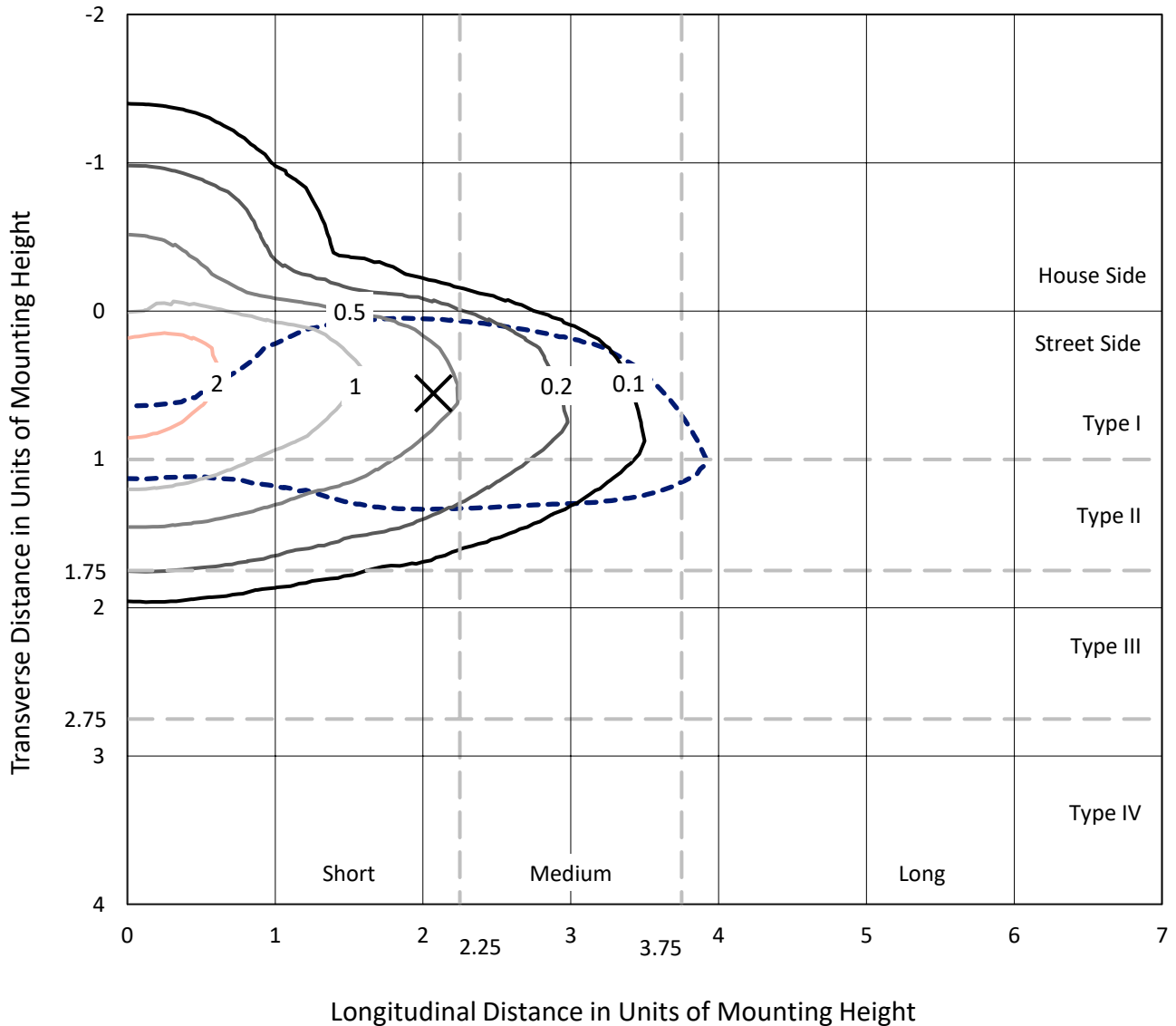
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

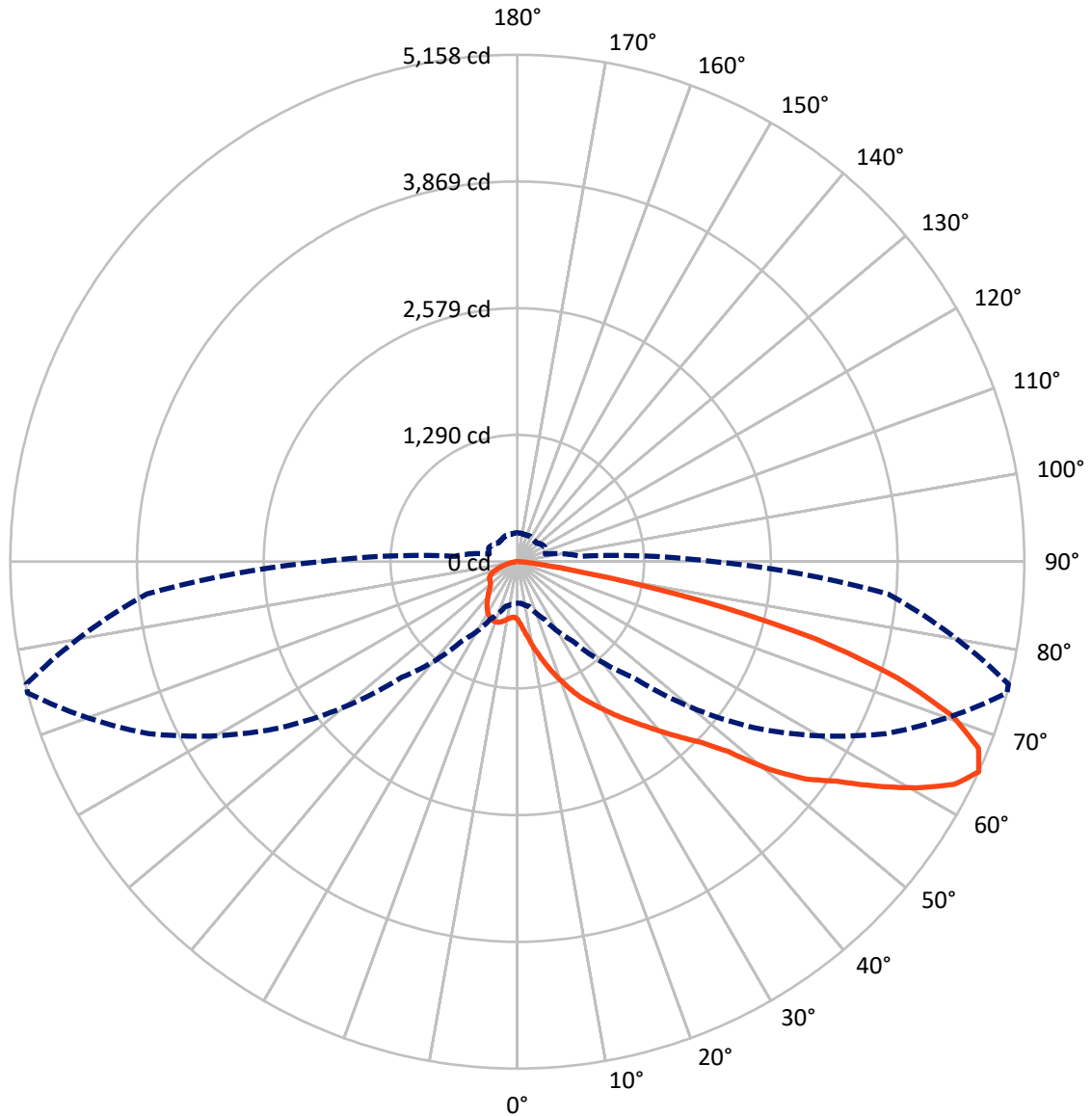
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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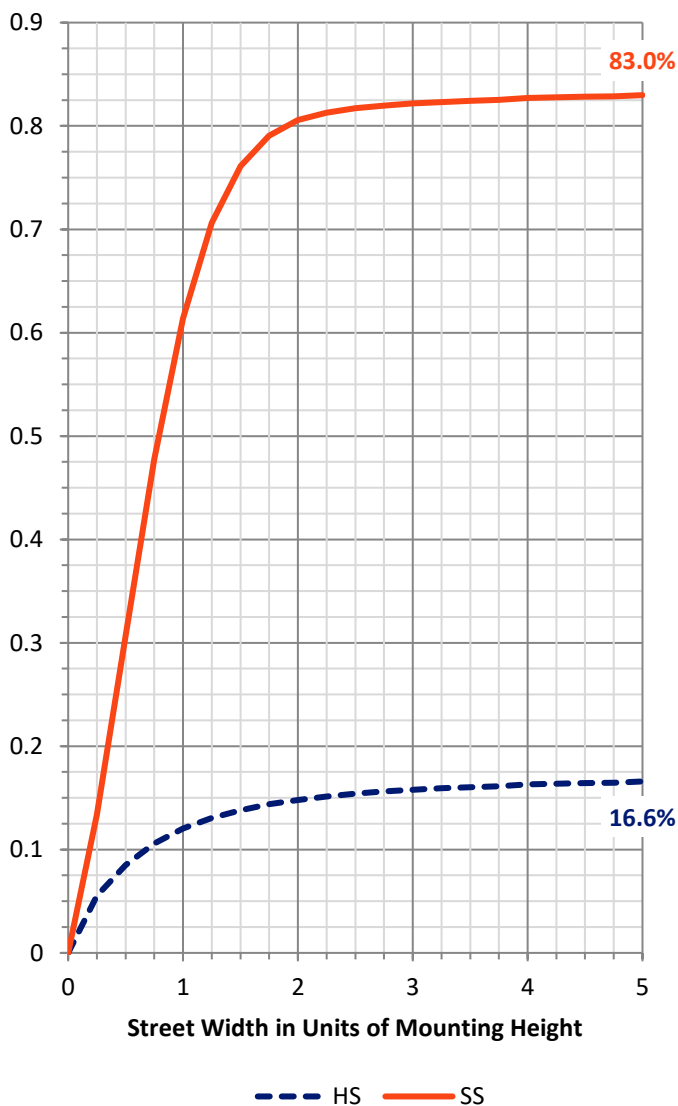
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1065.7	0.0	1065.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5273.3	0.0	5273.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	6339.0	0.0	6339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.1
10°-20°	280.3	4.4
20°-30°	541.4	8.5
30°-40°	879.4	13.9
40°-50°	1209.7	19.1
50°-60°	1428.3	22.5
60°-70°	1251.4	19.7
70°-80°	597.4	9.4
80°-90°	79.5	1.3
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°	6339.0	100.0
0°-180°	6339.0	100.0

Coefficient of Utilization



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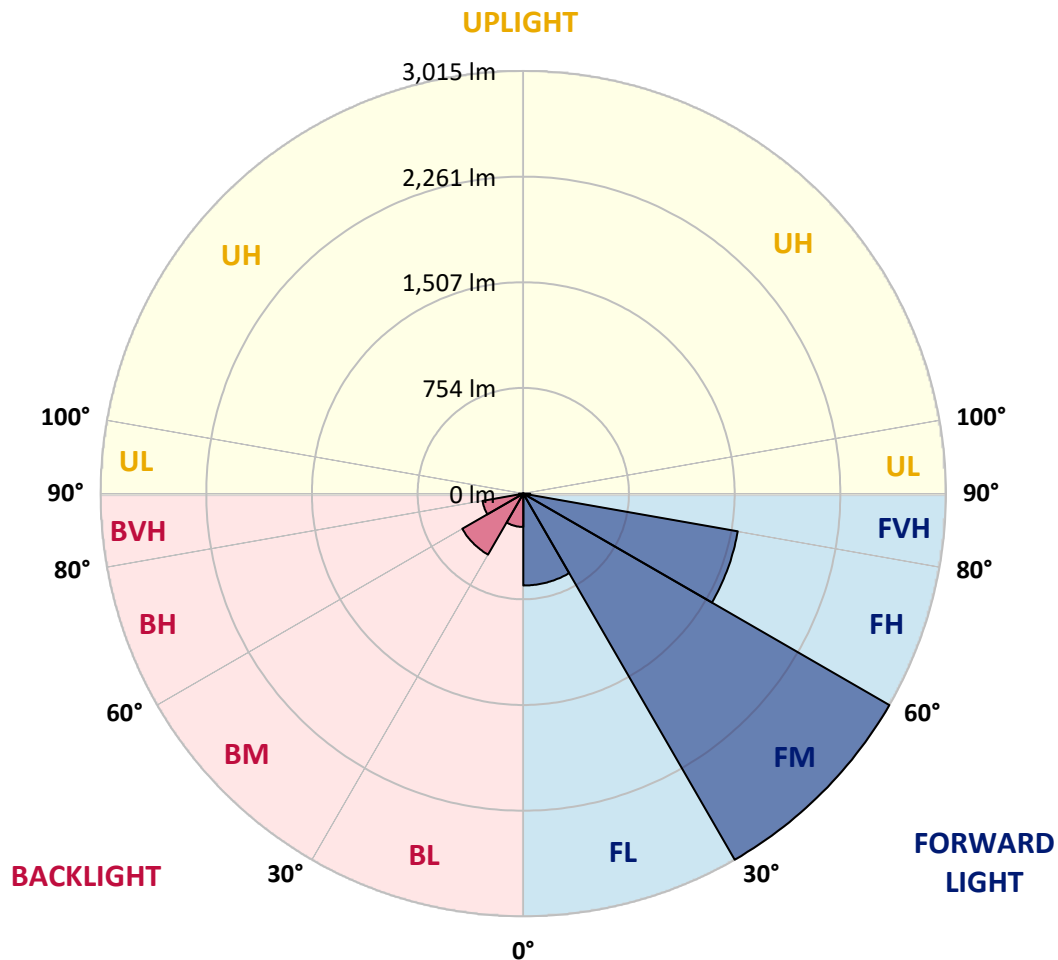
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.4	10.3			
FM (30°-60°)	3015.0	47.6			
FH (60°-80°)	1553.3	24.5			G1/1800
FVH (80°-90°)	49.7	0.8			G1/100
BL (0°-30°)	237.9	3.8	B1/500		
BM (30°-60°)	502.4	7.9	B1/1000		
BH (60°-80°)	295.5	4.7	B1/500		G1/500
BVH (80°-90°)	29.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
2.5°	782.5	777.4	771.9	756.8	740.6	722.4	696.2	671.1	637.8	636.8	612.0
5°	999.5	996.1	971.7	957.6	920.1	870.2	827.9	762.3	701.4	694.2	646.0
7.5°	1198.9	1185.5	1176.2	1150.8	1113.7	1049.7	967.9	879.2	777.4	767.8	688.0
10°	1349.2	1347.8	1343.0	1321.0	1293.1	1229.5	1138.8	1011.5	873.7	854.8	738.9
12.5°	1461.6	1462.6	1461.9	1461.6	1441.7	1387.7	1289.3	1155.3	971.0	957.6	797.7
15°	1535.5	1545.8	1550.0	1567.2	1568.9	1532.8	1448.2	1294.2	1080.6	1060.7	860.9
17.5°	1584.3	1589.5	1608.8	1638.0	1661.7	1655.2	1579.9	1422.8	1192.7	1159.4	926.6
20°	1631.1	1640.0	1654.8	1694.7	1736.7	1755.9	1703.0	1554.4	1303.8	1282.5	999.2
22.5°	1728.4	1741.1	1746.3	1766.6	1802.3	1836.4	1812.3	1680.6	1425.5	1396.6	1076.2
25°	1893.1	1906.5	1892.1	1887.3	1898.9	1915.8	1910.6	1799.6	1540.3	1499.1	1149.1
27.5°	2107.7	2109.4	2081.2	2054.4	2025.5	2016.9	2001.1	1905.1	1640.0	1605.7	1222.3
30°	2338.0	2329.8	2283.0	2234.5	2185.7	2137.6	2092.2	2006.9	1751.1	1711.6	1294.2
32.5°	2551.9	2547.4	2495.5	2420.2	2337.7	2292.3	2200.5	2109.7	1870.1	1831.9	1368.1
35°	2712.1	2718.6	2661.6	2579.4	2489.3	2449.1	2333.2	2217.7	1993.2	1951.6	1448.5
37.5°	2825.9	2822.5	2771.9	2700.7	2621.7	2586.6	2488.3	2335.6	2125.5	2085.6	1536.6
40°	2866.5	2864.4	2826.9	2775.0	2724.8	2712.4	2650.6	2462.8	2277.2	2230.4	1642.5
42.5°	2840.7	2845.2	2820.4	2806.3	2797.0	2806.0	2811.8	2629.6	2442.5	2399.6	1757.3
45°	2761.6	2759.2	2755.8	2778.8	2831.1	2889.9	2971.3	2787.0	2622.4	2588.0	1911.3
47.5°	2620.3	2637.5	2646.1	2709.7	2823.8	2963.1	3154.9	2998.2	2883.3	2853.4	2146.2
50°	2422.6	2436.3	2487.2	2600.4	2770.5	2990.6	3334.4	3343.4	3318.6	3262.6	2401.3
52.5°	2113.8	2135.2	2240.0	2447.4	2661.2	2979.2	3443.1	3639.4	3672.1	3630.1	2652.6
55°	1768.3	1798.2	1908.9	2180.9	2510.6	2917.4	3518.0	3811.0	3941.3	3902.4	2894.7
57.5°	1430.0	1461.6	1575.4	1838.8	2247.9	2780.5	3567.2	4002.1	4307.8	4257.2	3195.9
60°	1071.7	1104.7	1202.4	1473.6	1873.8	2513.0	3533.8	4167.9	4674.0	4652.3	3497.4
62.5°	691.4	727.9	812.8	1037.3	1440.3	2147.5	3355.4	4259.3	4991.0	4964.8	3717.4
65°	421.2	425.3	472.1	644.0	985.7	1662.7	2947.3	4137.9	5158.1	5150.2	3784.5
67.5°	272.3	278.8	300.2	385.8	591.0	1154.9	2356.6	3737.4	5060.4	5057.7	3645.9
70°	230.0	232.1	241.7	260.3	343.5	700.4	1654.8	3098.9	4689.4	4689.4	3312.8
72.5°	205.6	208.4	211.8	217.6	245.1	396.8	987.5	2412.3	4048.9	4075.7	2819.7
75°	186.7	186.0	188.1	189.1	209.0	259.2	510.6	1784.1	3132.3	3078.6	2042.0
77.5°	159.9	160.9	159.9	164.3	184.6	197.4	259.2	1197.2	1898.3	1828.8	1024.9
80°	131.3	133.1	134.8	137.5	157.8	149.9	155.8	545.7	702.1	687.3	316.7
82.5°	98.7	101.1	103.8	110.4	124.1	99.0	98.3	233.1	253.4	232.1	116.6
85°	39.9	47.1	71.2	77.7	78.0	54.3	60.5	97.3	103.5	101.1	45.7
87.5°	9.3	11.0	23.0	34.7	32.0	20.3	22.3	31.6	36.1	33.4	15.5
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°	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
2.5°	600.7	588.6	568.0	552.2	540.8	530.9	524.7	520.9	519.5	519.2	519.5
5°	620.9	599.6	567.0	546.3	535.0	528.5	524.7	524.3	524.7	525.0	524.0
7.5°	648.8	618.2	575.6	556.3	547.7	542.9	541.2	540.5	540.8	540.5	540.5
10°	685.9	644.0	592.4	572.5	565.2	559.7	557.0	555.3	553.9	552.5	551.8
12.5°	726.8	672.5	610.6	591.4	581.1	572.5	566.3	561.8	558.7	555.6	554.9
15°	772.6	702.8	630.9	604.1	589.3	576.6	565.9	558.7	553.2	548.7	548.4
17.5°	816.2	731.3	644.7	609.9	588.3	570.4	556.3	546.3	539.5	533.6	532.9
20°	863.0	758.5	650.9	606.2	578.0	556.3	537.7	525.7	517.8	511.3	510.2
22.5°	910.1	781.5	650.2	594.1	560.1	534.6	515.1	502.3	493.0	486.5	484.1
25°	955.1	800.1	641.6	574.9	535.3	508.9	488.9	477.2	469.0	461.1	461.1
27.5°	995.7	811.1	625.4	551.5	509.9	482.0	466.2	455.6	448.0	442.8	439.8
30°	1035.6	816.2	603.4	521.9	483.1	459.4	446.6	440.4	433.6	427.7	427.0
32.5°	1071.4	815.2	575.9	493.0	457.6	440.8	435.6	430.8	423.6	415.3	413.3
35°	1106.1	808.3	543.2	461.4	436.3	429.8	431.2	424.3	411.2	400.9	399.2
37.5°	1143.9	796.0	507.5	435.6	418.4	424.6	428.1	412.9	391.6	375.5	371.7
40°	1187.6	781.9	470.4	409.8	404.3	419.8	419.8	392.0	362.7	352.8	350.0
42.5°	1238.8	770.2	439.4	388.2	392.6	408.1	406.4	364.1	352.1	346.9	345.5
45°	1319.9	766.0	407.4	369.3	383.0	394.4	380.3	354.5	347.6	343.5	342.1
47.5°	1448.2	770.9	379.2	355.2	372.0	380.6	351.0	348.0	343.1	337.3	336.6
50°	1567.2	766.4	359.3	347.3	362.4	364.1	339.0	340.0	337.3	330.8	329.4
52.5°	1664.5	752.3	346.6	343.1	354.1	335.2	327.7	331.4	330.4	322.2	320.8
55°	1771.4	743.7	340.4	343.1	348.6	310.1	317.0	322.5	321.1	315.3	314.9
57.5°	1901.0	745.4	335.9	344.2	343.1	297.4	306.3	312.9	312.5	310.8	310.8
60°	2033.7	746.1	329.0	343.8	336.6	287.4	295.3	304.6	305.3	306.3	306.3
62.5°	2077.7	716.2	315.6	337.6	322.2	277.8	285.0	297.8	297.1	299.8	300.2
65°	1995.6	633.3	295.7	323.5	303.6	270.9	277.1	288.8	285.0	292.3	293.6
67.5°	1816.4	524.0	264.7	298.1	283.0	263.7	272.0	276.4	269.6	283.7	284.0
70°	1569.9	409.2	225.5	262.0	259.6	256.2	267.8	261.0	251.3	268.5	265.1
72.5°	1312.7	312.5	180.2	214.2	228.3	244.8	260.6	241.0	227.6	232.8	226.6
75°	986.1	231.1	144.8	167.8	190.1	228.6	254.1	217.0	196.3	191.5	190.1
77.5°	502.7	150.9	108.3	125.5	142.7	206.6	245.1	188.8	162.6	155.1	151.6
80°	179.5	93.9	76.3	86.6	96.3	177.8	214.2	156.1	126.2	124.8	126.2
82.5°	83.2	60.5	51.2	56.7	57.1	118.6	163.3	116.6	95.9	145.8	123.1
85°	35.8	30.3	28.9	28.2	26.1	52.9	91.8	62.6	97.6	43.7	40.2
87.5°	10.7	12.0	10.7	7.9	5.8	5.8	9.3	3.4	2.4	1.7	1.7
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)