

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: P647241

Luminaire Tested: **GALN-SA1D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659.8 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

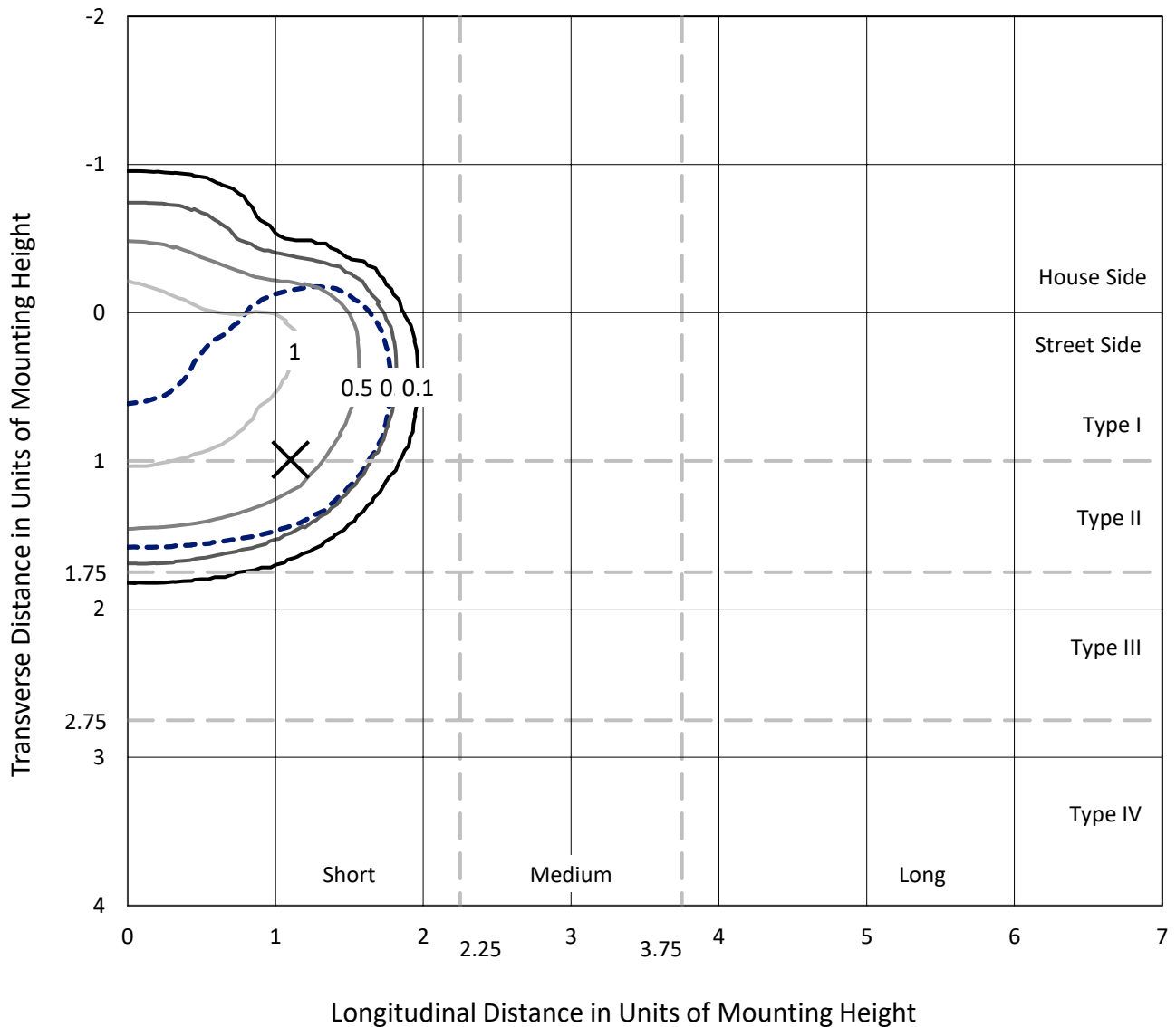
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

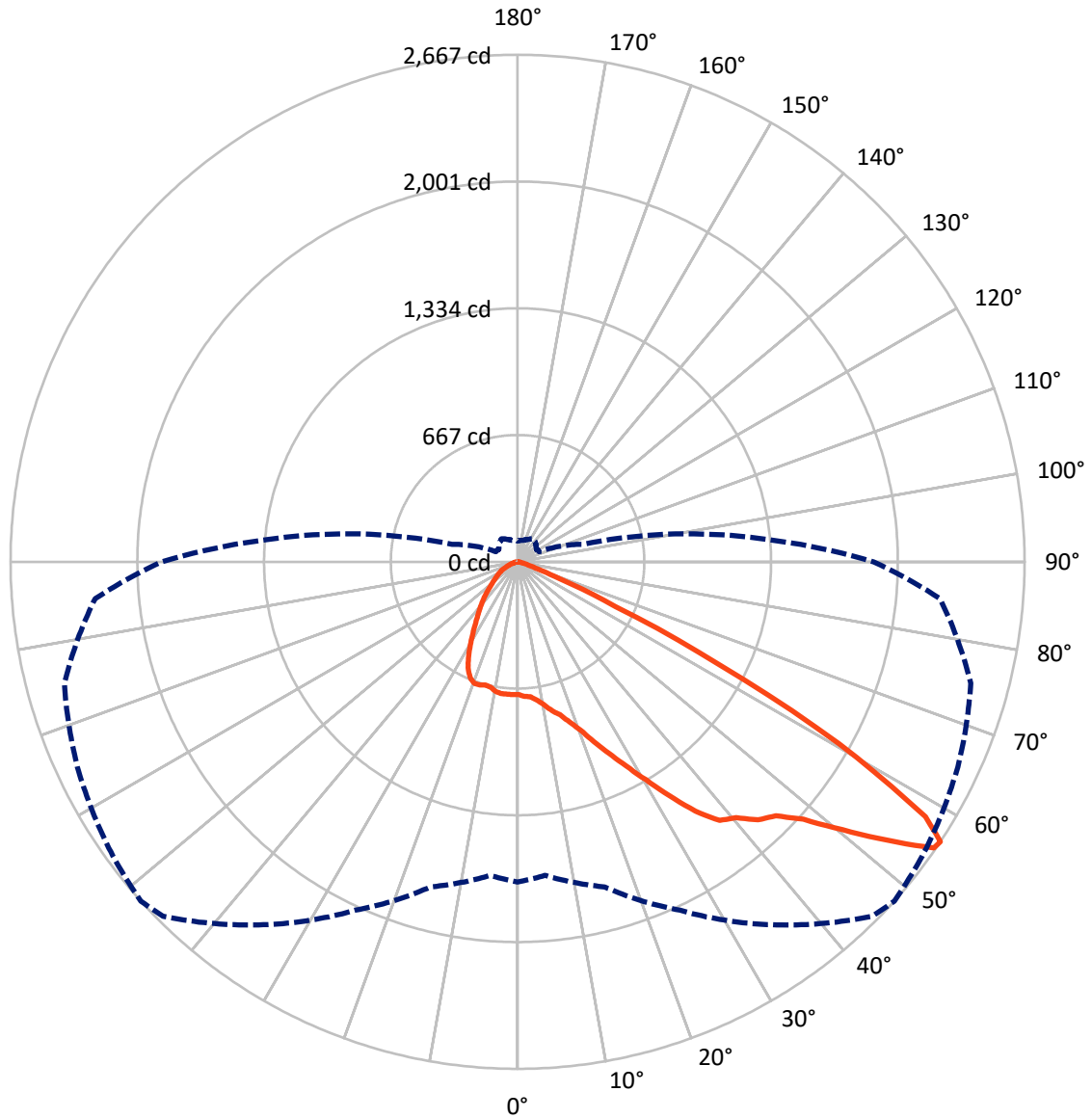
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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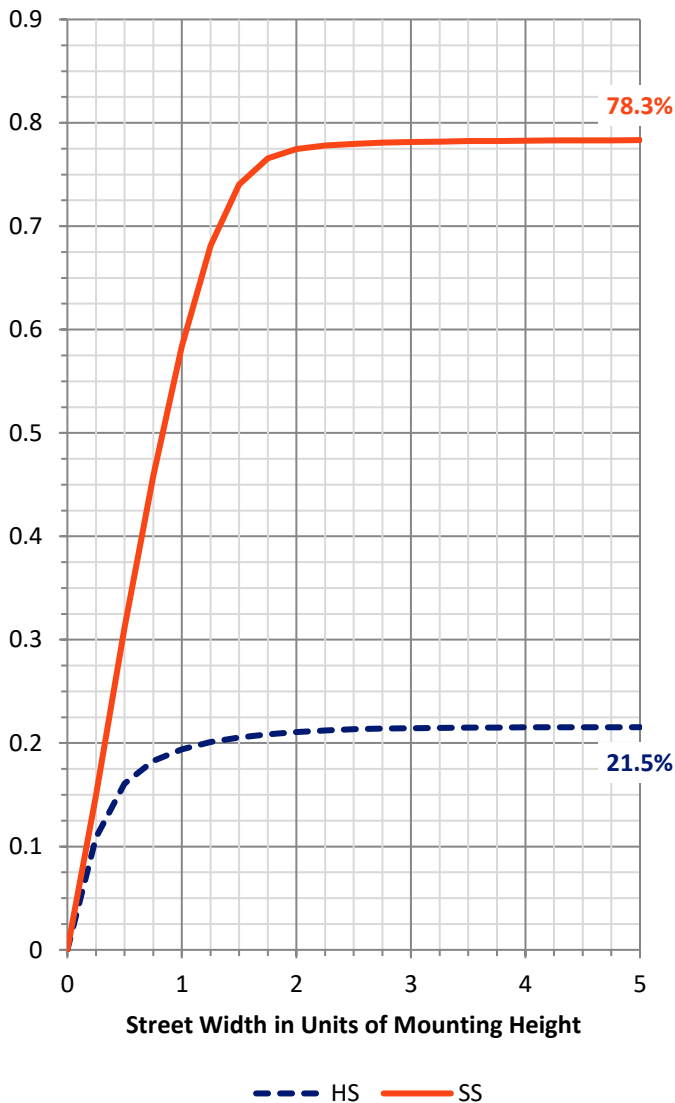
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	795.9	0.0	795.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	2863.8	0.0	2863.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	3659.8	0.0	3659.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.9
10°-20°	217.6	5.9
20°-30°	394.7	10.8
30°-40°	620.0	16.9
40°-50°	904.5	24.7
50°-60°	1089.7	29.8
60°-70°	319.0	8.7
70°-80°	40.5	1.1
80°-90°	5.7	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°	3659.8	100.0
0°-180°	3659.8	100.0

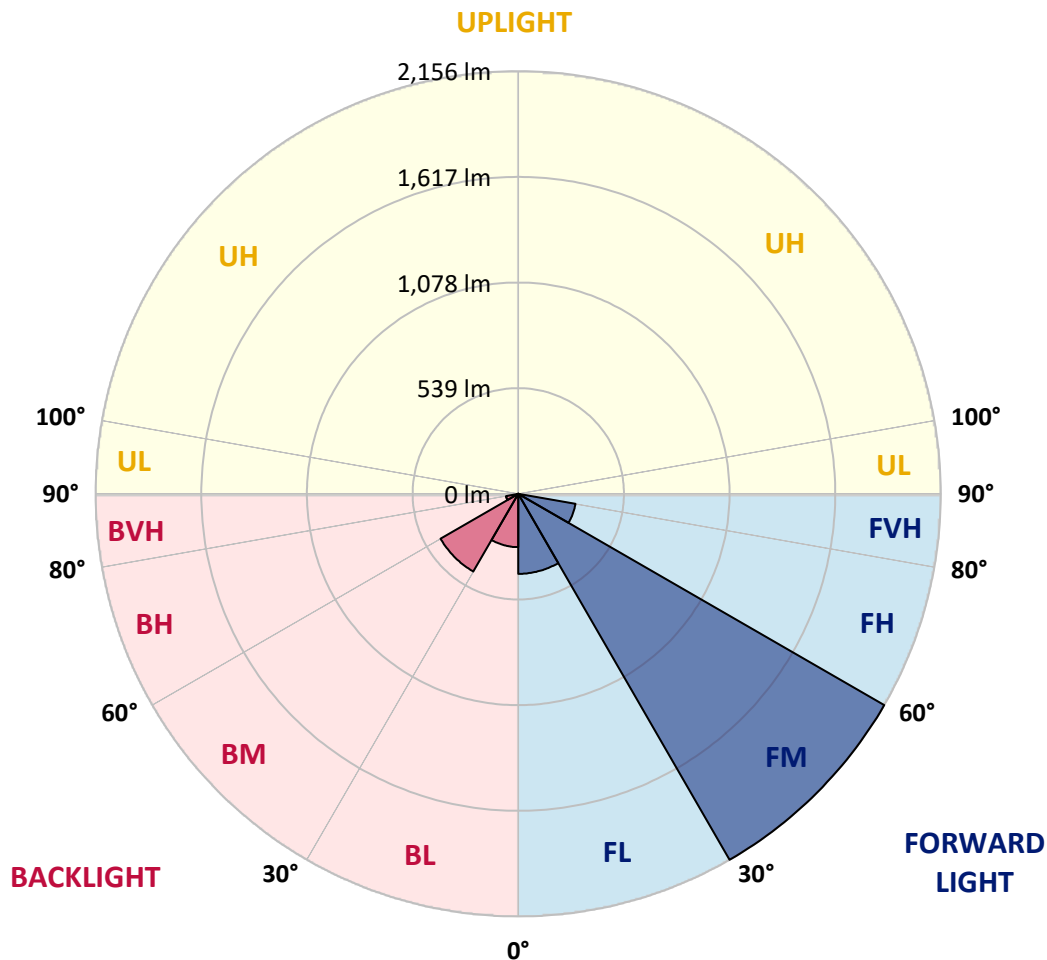


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.4	11.2			
FM (30°-60°)	2156.3	58.9			
FH (60°-80°)	296.3	8.1			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	272.0	7.4	B1/500		
BM (30°-60°)	457.8	12.5	B1/1000		
BH (60°-80°)	63.2	1.7	B0/110		G0/110
BVH (80°-90°)	2.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	711.7	708.4	708.4	703.0	709.0	706.3	708.4	701.6	708.4	698.4	706.3
5°	715.0	715.7	713.0	716.4	716.4	720.4	713.7	719.7	723.0	715.7	712.4
7.5°	732.3	733.7	733.0	730.3	735.6	735.0	734.3	729.7	731.0	728.3	724.4
10°	766.3	765.6	769.0	762.3	758.3	763.0	764.3	757.0	751.7	749.6	737.0
12.5°	815.7	807.7	803.0	796.3	798.3	791.6	803.6	791.0	788.3	776.3	763.7
15°	855.6	854.3	855.0	844.3	832.3	834.9	834.9	828.3	824.3	809.6	791.6
17.5°	937.6	909.6	915.6	902.3	892.2	891.6	885.6	886.9	876.3	845.6	818.3
20°	1001.5	989.6	980.2	957.5	942.3	946.9	944.2	937.6	934.3	894.3	855.6
22.5°	1058.9	1062.8	1047.5	1041.5	1020.2	1022.2	1027.5	1021.5	996.2	954.9	897.6
25°	1139.5	1134.8	1114.1	1106.8	1086.8	1094.2	1114.8	1110.1	1094.2	1019.5	930.2
27.5°	1234.8	1218.7	1222.7	1189.5	1170.1	1190.8	1215.5	1238.8	1193.4	1095.5	968.9
30°	1302.1	1285.4	1284.0	1282.7	1278.1	1302.1	1330.7	1352.1	1315.4	1171.4	1032.9
32.5°	1335.4	1339.4	1350.7	1346.7	1387.4	1436.6	1466.6	1497.3	1451.4	1295.4	1117.5
35°	1424.0	1398.7	1424.0	1426.7	1468.7	1573.3	1611.3	1684.5	1673.2	1470.6	1220.8
37.5°	1476.0	1474.0	1477.3	1502.7	1543.3	1672.6	1726.5	1783.2	1761.8	1575.9	1349.3
40°	1561.9	1567.3	1566.6	1586.0	1630.6	1747.2	1769.2	1815.2	1817.2	1721.9	1538.6
42.5°	1699.9	1678.6	1664.6	1684.5	1747.2	1811.9	1855.8	1846.5	1912.5	1899.2	1781.9
45°	1823.8	1836.5	1815.9	1849.1	1871.8	1906.4	1905.1	1925.1	2009.1	2072.4	1965.1
47.5°	1939.8	1947.8	1957.7	1980.4	2029.8	2035.1	2023.7	2015.1	2131.0	2196.3	2107.1
50°	2009.1	2016.4	2063.0	2103.7	2195.7	2207.7	2214.3	2192.3	2270.9	2278.3	2240.9
52.5°	1990.4	1998.5	2063.8	2197.6	2344.2	2454.2	2434.2	2396.9	2392.2	2420.9	2364.9
55°	1825.2	1817.8	1907.8	2116.4	2390.9	2654.8	2657.4	2618.1	2542.9	2523.5	2346.3
56°	1684.5	1655.9	1770.5	2022.4	2330.9	2637.5	2667.4	2625.5	2554.9	2468.2	2231.0
57.5°	1380.0	1407.4	1521.3	1729.9	2123.7	2512.9	2530.2	2520.2	2466.8	2321.6	1963.1
60°	761.0	809.0	909.6	1164.8	1512.0	1928.5	1942.5	2023.7	2033.8	1777.9	1350.7
62.5°	323.2	317.8	422.5	610.3	860.9	1164.2	1190.1	1273.4	1288.7	1024.9	677.7
65°	131.3	138.6	191.2	307.2	455.2	530.4	567.0	594.4	645.0	423.1	249.9
67.5°	86.6	86.0	112.6	175.2	245.2	236.5	236.5	249.9	231.2	172.6	108.0
70°	61.9	64.0	80.6	121.3	152.6	113.3	108.6	104.0	117.9	113.9	87.3
72.5°	40.6	43.3	53.9	72.7	79.3	61.9	61.9	74.6	97.3	91.9	71.3
75°	26.6	27.3	33.4	42.0	39.3	31.9	35.3	50.0	70.6	68.0	50.7
77.5°	18.0	18.6	22.6	27.3	22.0	18.0	19.3	25.3	34.7	34.7	26.6
80°	6.7	7.4	9.3	8.7	10.0	12.7	14.0	17.3	20.7	20.7	18.0
82.5°	0.0	0.7	2.0	4.7	7.4	10.0	11.4	13.3	15.3	17.3	16.7
85°	0.0	0.7	2.0	3.4	5.3	6.0	6.7	4.7	4.0	4.0	3.4
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3	0.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	699.0	698.4	698.4	696.3	700.3	698.4	699.7	699.0	690.4	697.0	692.3
5°	706.3	711.0	703.7	702.4	697.0	699.0	699.0	692.3	698.4	697.7	696.3
7.5°	725.0	717.0	709.0	701.0	699.7	697.7	690.4	687.7	692.3	687.0	695.0
10°	733.0	734.3	722.3	711.7	701.6	687.7	677.7	671.7	664.4	672.4	677.1
12.5°	769.6	756.3	735.6	719.0	685.0	671.0	661.0	658.3	671.0	673.7	669.0
15°	782.3	780.3	753.6	716.4	681.1	664.4	666.3	661.0	662.3	655.7	657.0
17.5°	808.3	785.7	754.3	707.7	680.3	676.4	664.4	643.0	631.0	625.7	630.4
20°	836.9	814.9	769.6	711.0	686.4	675.7	636.3	610.3	585.8	572.4	573.1
22.5°	862.2	834.9	763.0	712.4	691.7	647.7	600.4	549.1	518.4	497.8	498.5
25°	892.9	854.3	765.6	715.0	677.7	603.1	535.1	485.1	448.4	434.5	439.1
27.5°	910.2	866.2	780.3	721.0	641.0	539.7	466.4	419.8	398.5	391.8	391.2
30°	962.2	892.9	798.3	709.0	579.7	471.8	403.8	375.1	354.5	348.5	349.8
32.5°	1039.5	941.6	821.6	677.7	517.1	411.2	363.2	341.9	322.5	311.2	309.8
35°	1104.2	1024.9	846.3	629.1	444.4	364.5	334.5	307.9	278.5	265.9	262.5
37.5°	1227.4	1118.8	840.9	555.8	375.1	329.9	303.9	271.2	245.9	228.6	226.6
40°	1391.4	1228.8	814.9	466.4	323.8	299.2	271.2	239.9	208.6	193.9	192.5
42.5°	1590.6	1363.4	767.7	375.8	272.6	268.6	243.2	207.3	179.2	168.6	169.3
45°	1752.5	1478.6	719.7	301.8	234.6	238.6	216.6	182.6	163.3	154.6	154.6
47.5°	1896.4	1556.6	667.7	249.2	199.3	208.6	189.3	169.3	152.6	146.0	144.6
50°	2035.1	1635.9	615.8	201.9	169.9	179.2	177.3	161.3	147.9	139.9	140.6
52.5°	2121.7	1648.6	549.7	165.3	148.6	159.3	165.9	151.3	136.6	131.9	130.6
55°	2015.8	1485.4	426.5	135.9	125.9	139.9	152.6	135.9	124.6	116.6	116.0
56°	1873.2	1328.0	356.5	125.3	119.3	134.6	147.9	130.0	117.3	112.6	109.3
57.5°	1586.0	1086.8	263.2	111.3	110.6	125.3	140.6	123.9	109.3	105.3	105.3
60°	988.9	611.8	159.3	93.3	95.9	111.3	126.6	110.6	97.3	97.3	99.3
62.5°	450.5	254.6	96.6	79.3	82.6	95.9	112.6	100.0	92.6	100.0	101.3
65°	153.2	109.9	70.0	63.3	65.3	79.3	96.6	101.3	100.6	105.3	108.0
67.5°	86.0	70.6	58.6	52.6	51.3	58.6	79.3	101.3	97.3	95.3	96.6
70°	72.7	60.0	52.0	46.7	44.6	47.3	61.3	76.7	68.7	66.6	65.3
72.5°	58.6	50.0	45.3	42.0	36.0	30.6	28.0	29.3	32.7	34.7	38.0
75°	41.3	38.0	38.0	34.0	26.0	19.3	15.3	12.7	8.7	6.0	6.7
77.5°	23.3	23.3	24.0	20.7	16.7	12.7	9.3	6.7	3.4	1.3	0.7
80°	16.0	17.3	18.6	16.7	14.0	11.4	8.0	4.7	2.0	0.0	0.0
82.5°	16.0	18.0	19.3	16.7	14.0	10.6	8.0	4.7	2.0	0.7	0.0
85°	3.4	4.0	4.7	5.3	8.0	8.0	6.0	4.0	2.0	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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)