

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: P527979

Luminaire Tested: **GALN-SA3A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7502 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

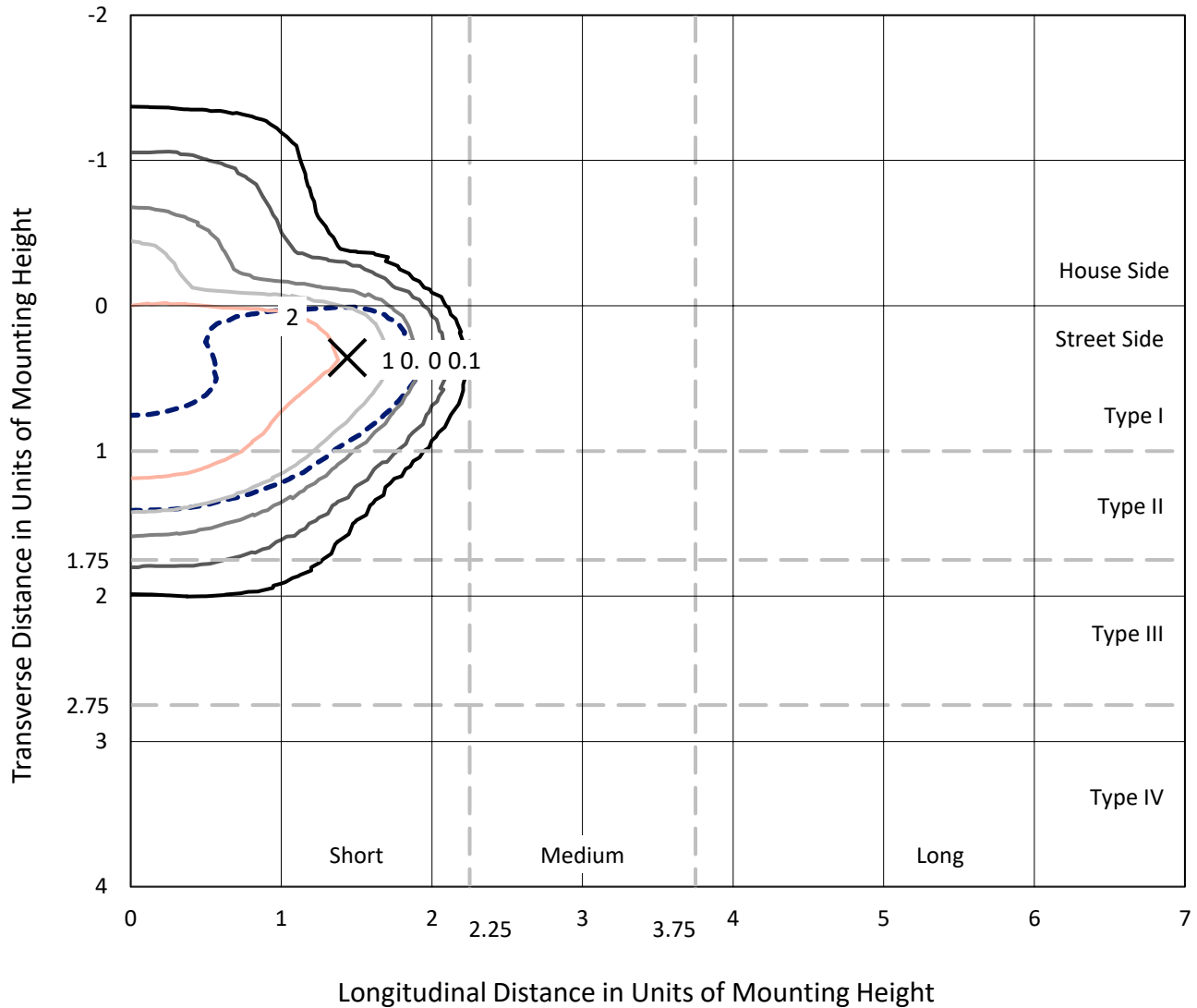
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

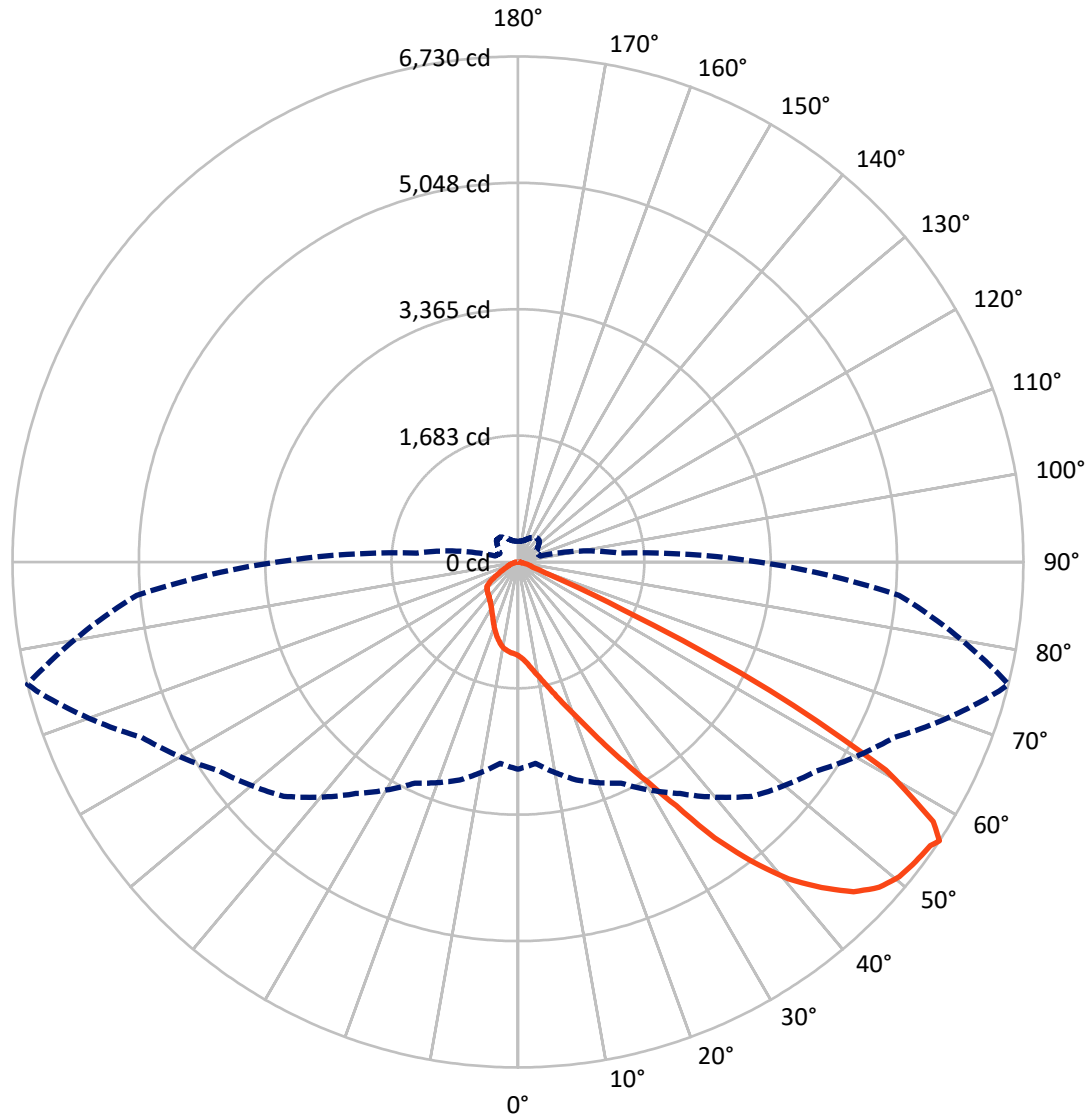
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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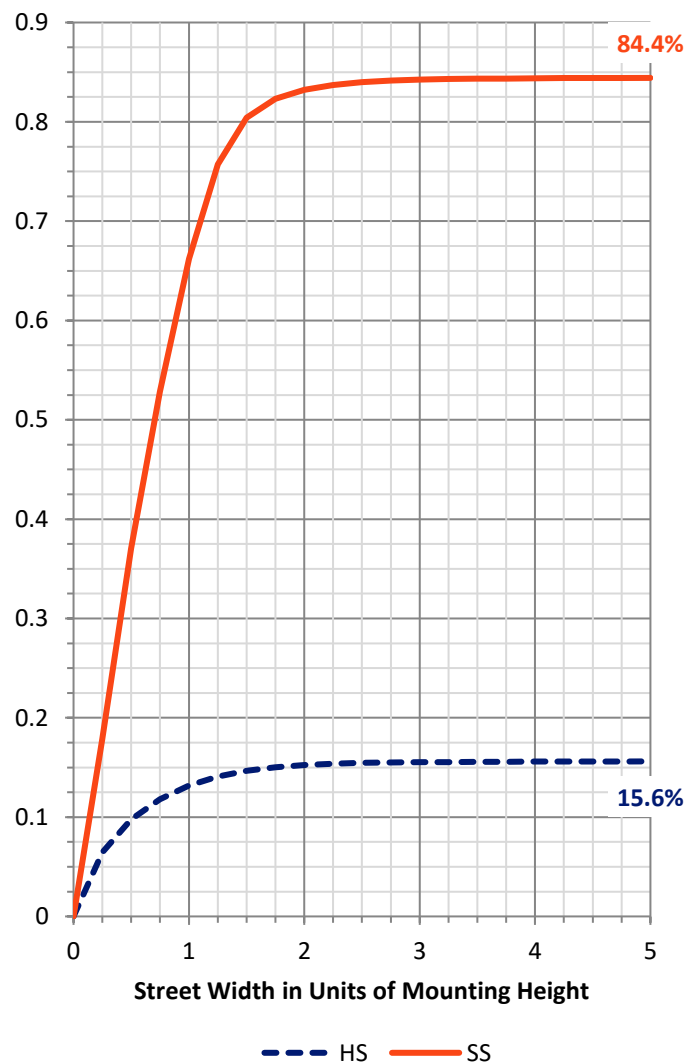
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.5	0.0	1178.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6323.5	0.0	6323.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	7502.0	0.0	7502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	1.7
10°-20°	404.1	5.4
20°-30°	732.8	9.8
30°-40°	1263.7	16.8
40°-50°	2052.9	27.4
50°-60°	2163.9	28.8
60°-70°	661.2	8.8
70°-80°	84.8	1.1
80°-90°	12.9	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°	7502.0	100.0
0°-180°	7502.0	100.0

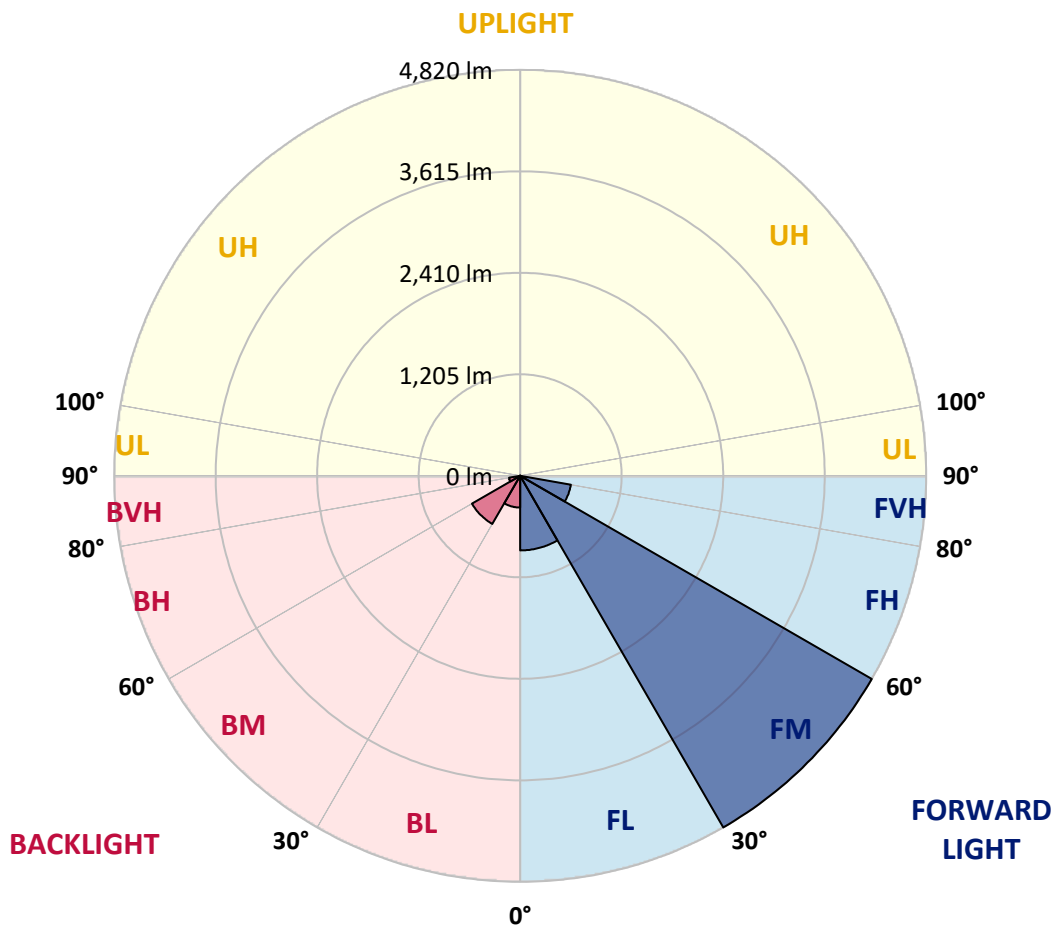


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.7	11.8			
FM (30°-60°)	4820.0	64.2			
FH (60°-80°)	611.5	8.2			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	377.0	5.0	B1/500		
BM (30°-60°)	660.5	8.8	B1/1000		
BH (60°-80°)	134.5	1.8	B1/500		G1/500
BVH (80°-90°)	6.6	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7
2.5°	1438.2	1405.0	1406.4	1403.6	1399.5	1384.2	1338.6	1331.7	1301.3	1293.0	1265.3
5°	1611.0	1582.0	1598.6	1573.7	1550.2	1536.4	1461.7	1427.1	1378.7	1360.7	1322.0
7.5°	1718.9	1705.1	1699.5	1700.9	1678.8	1644.2	1611.0	1535.0	1470.0	1456.1	1374.6
10°	1771.4	1763.1	1771.4	1767.3	1777.0	1781.1	1723.0	1677.4	1582.0	1558.5	1431.3
12.5°	1783.9	1800.5	1807.4	1825.4	1848.9	1889.0	1884.8	1822.6	1695.4	1680.2	1518.4
15°	1814.3	1828.1	1821.2	1850.3	1894.5	1962.3	1998.2	1988.5	1851.6	1824.0	1619.3
17.5°	1842.0	1817.1	1840.6	1898.7	1942.9	2046.6	2133.7	2173.8	2021.7	1989.9	1712.0
20°	1879.3	1872.4	1868.2	1897.3	1976.1	2114.4	2287.2	2360.5	2212.6	2179.4	1844.7
22.5°	1992.7	1994.1	1991.3	1948.4	2005.1	2161.4	2421.4	2602.5	2440.7	2413.1	1995.5
25°	2142.0	2124.1	2110.2	2075.7	2068.8	2204.3	2556.9	2898.5	2714.5	2695.2	2158.6
27.5°	2299.7	2299.7	2258.2	2226.4	2182.1	2310.8	2681.4	3186.1	3045.0	3018.8	2301.1
30°	2471.2	2480.8	2475.3	2407.6	2379.9	2426.9	2808.6	3553.9	3424.0	3390.8	2536.2
32.5°	2724.2	2703.5	2727.0	2670.3	2588.7	2630.2	3009.1	3883.1	3916.2	3869.2	2844.5
35°	3058.9	3046.4	3031.2	2938.6	2841.8	2875.0	3292.6	4288.2	4534.4	4510.9	3155.7
37.5°	3359.0	3352.0	3339.6	3276.0	3164.0	3204.1	3614.8	4710.0	5137.3	5059.9	3595.4
40°	3674.2	3711.6	3671.5	3614.8	3512.5	3601.0	3993.7	4960.3	5644.8	5550.8	3931.5
42.5°	4101.6	4072.5	4090.5	3986.8	3931.5	4028.3	4374.0	5210.6	6038.9	5926.9	4288.2
45°	4556.5	4557.9	4509.5	4476.3	4332.5	4437.6	4607.7	5348.9	6352.8	6265.7	4557.9
47.5°	4848.3	4846.9	4899.5	4952.0	4804.0	4700.3	4766.7	5480.3	6514.6	6474.5	4656.1
50°	4802.7	4816.5	4884.2	5080.6	5158.1	5018.4	4916.1	5441.5	6587.9	6583.8	4740.4
52.5°	4177.6	4223.2	4336.6	4620.1	5010.1	5182.9	5072.3	5513.4	6623.9	6630.8	4866.3
55°	3180.6	3205.5	3421.2	3765.5	4197.0	4788.8	5010.1	5570.1	6651.5	6664.0	5018.4
56°	2758.8	2692.4	3003.6	3248.3	3764.1	4411.3	4852.4	5525.9	6634.9	6730.4	5094.4
57.5°	2082.6	2038.3	2290.0	2595.6	3092.1	3775.2	4362.9	5317.1	6522.9	6521.5	4985.2
60°	1266.7	1222.4	1416.0	1595.8	1873.8	2324.6	2948.2	4234.3	5514.8	5631.0	4036.6
62.5°	753.7	781.3	972.1	1081.4	1171.3	1218.3	1525.3	2516.8	3679.8	3762.8	2504.4
65°	502.0	511.7	655.5	835.2	875.3	697.0	620.9	1019.2	1595.8	1544.7	1033.0
67.5°	309.8	331.9	439.7	627.8	695.6	508.9	294.5	380.3	439.7	439.7	298.7
70°	188.1	199.1	293.2	427.3	477.1	327.7	214.3	214.3	211.6	207.4	178.4
72.5°	89.9	96.8	149.3	219.9	224.0	172.9	165.9	181.2	177.0	175.6	148.0
75°	38.7	41.5	52.5	69.1	78.8	73.3	100.9	130.0	134.1	130.0	106.5
77.5°	12.4	13.8	19.4	24.9	26.3	31.8	42.9	53.9	62.2	58.1	52.5
80°	1.4	2.8	5.5	12.4	19.4	24.9	31.8	36.0	40.1	40.1	37.3
82.5°	1.4	1.4	5.5	11.1	18.0	23.5	30.4	34.6	40.1	41.5	38.7
85°	0.0	1.4	4.1	9.7	15.2	15.2	13.8	13.8	9.7	9.7	9.7
87.5°	0.0	0.0	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7
2.5°	1259.8	1257.0	1219.7	1196.2	1183.7	1158.8	1143.6	1132.6	1124.3	1114.6	1116.0
5°	1276.4	1266.7	1204.5	1161.6	1110.4	1082.8	1059.3	1039.9	1027.5	1024.7	1019.2
7.5°	1323.4	1272.2	1178.2	1100.8	1035.8	1008.1	987.4	974.9	980.4	968.0	977.7
10°	1359.3	1283.3	1146.4	1034.4	969.4	948.6	937.6	947.3	961.1	955.6	948.6
12.5°	1403.6	1294.4	1095.2	970.8	909.9	894.7	914.1	932.0	959.7	970.8	956.9
15°	1453.4	1306.8	1030.2	897.5	858.8	871.2	904.4	936.2	963.9	977.7	986.0
17.5°	1514.2	1302.7	966.6	839.4	810.4	846.3	886.4	915.5	956.9	977.7	972.1
20°	1570.9	1288.8	896.1	781.3	782.7	815.9	849.1	896.1	918.2	945.9	936.2
22.5°	1624.9	1263.9	822.8	741.2	741.2	792.4	809.0	839.4	858.8	872.6	871.2
25°	1700.9	1216.9	762.0	702.5	719.1	752.3	766.1	775.8	767.5	778.5	779.9
27.5°	1754.8	1168.5	712.2	667.9	698.3	723.2	719.1	713.6	694.2	679.0	688.7
30°	1812.9	1111.8	669.3	644.4	661.0	683.1	666.5	649.9	619.5	594.6	596.0
32.5°	1895.9	1085.5	632.0	616.8	638.9	641.6	623.7	598.8	568.4	544.8	543.5
35°	2050.8	1068.9	600.2	598.8	602.9	604.3	586.3	555.9	543.5	524.1	531.0
37.5°	2205.7	1060.7	578.0	572.5	571.1	572.5	551.8	522.7	546.2	544.8	547.6
40°	2403.4	1098.0	546.2	539.3	540.7	540.7	514.4	506.1	547.6	551.8	553.1
42.5°	2603.9	1145.0	525.5	503.4	508.9	508.9	495.1	485.4	514.4	486.8	482.6
45°	2778.2	1214.1	503.4	467.4	481.2	488.1	484.0	467.4	449.4	402.4	402.4
47.5°	2834.9	1275.0	477.1	432.8	443.9	474.3	461.9	427.3	395.5	356.8	354.0
50°	2934.4	1341.4	456.3	392.7	416.2	453.6	441.1	406.6	370.6	342.9	344.3
52.5°	3036.8	1417.4	417.6	345.7	374.8	437.0	437.0	398.3	342.9	323.6	320.8
55°	3190.2	1414.7	348.5	283.5	334.7	412.1	419.0	356.8	307.0	291.8	291.8
56°	3212.4	1351.1	313.9	265.5	316.7	405.2	406.6	345.7	293.2	276.6	276.6
57.5°	3046.4	1219.7	275.2	243.4	294.5	392.7	394.1	336.0	282.1	258.6	255.8
60°	2343.9	825.6	229.6	217.1	266.9	354.0	360.9	305.6	247.5	229.6	228.2
62.5°	1323.4	457.7	201.9	196.4	229.6	301.5	322.2	266.9	210.2	200.5	203.3
65°	604.3	251.7	170.1	159.0	185.3	232.3	260.0	219.9	172.9	161.8	161.8
67.5°	221.3	171.5	145.2	125.8	130.0	150.7	168.7	142.4	114.8	98.2	102.3
70°	157.6	143.8	127.2	109.2	100.9	98.2	96.8	80.2	56.7	44.3	47.0
72.5°	127.2	118.9	106.5	92.7	78.8	66.4	56.7	41.5	26.3	18.0	16.6
75°	91.3	87.1	77.4	66.4	55.3	47.0	38.7	26.3	13.8	6.9	6.9
77.5°	47.0	47.0	45.6	41.5	34.6	27.7	22.1	15.2	8.3	2.8	2.8
80°	36.0	38.7	40.1	36.0	31.8	24.9	18.0	11.1	5.5	1.4	1.4
82.5°	34.6	40.1	42.9	37.3	31.8	23.5	18.0	11.1	5.5	1.4	1.4
85°	8.3	8.3	12.4	13.8	18.0	19.4	15.2	9.7	4.1	1.4	1.4
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	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)