

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: P526813

Luminaire Tested: **GALN-SA1D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526813
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-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 4354 lumens
Efficiency: N/A
Efficacy: 67.0 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

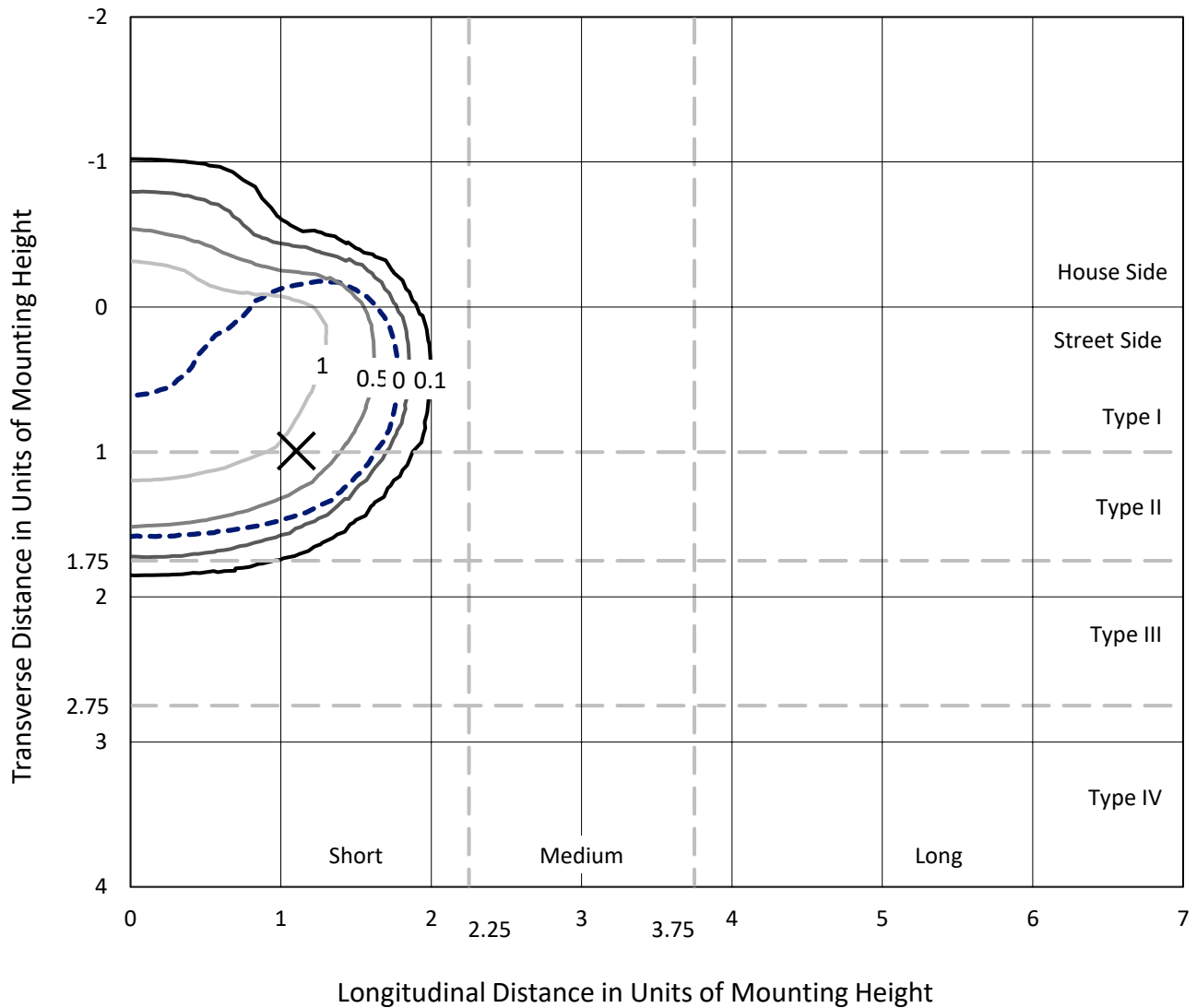
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526813
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Iso-Footcandle Lines of Horizontal Illumination

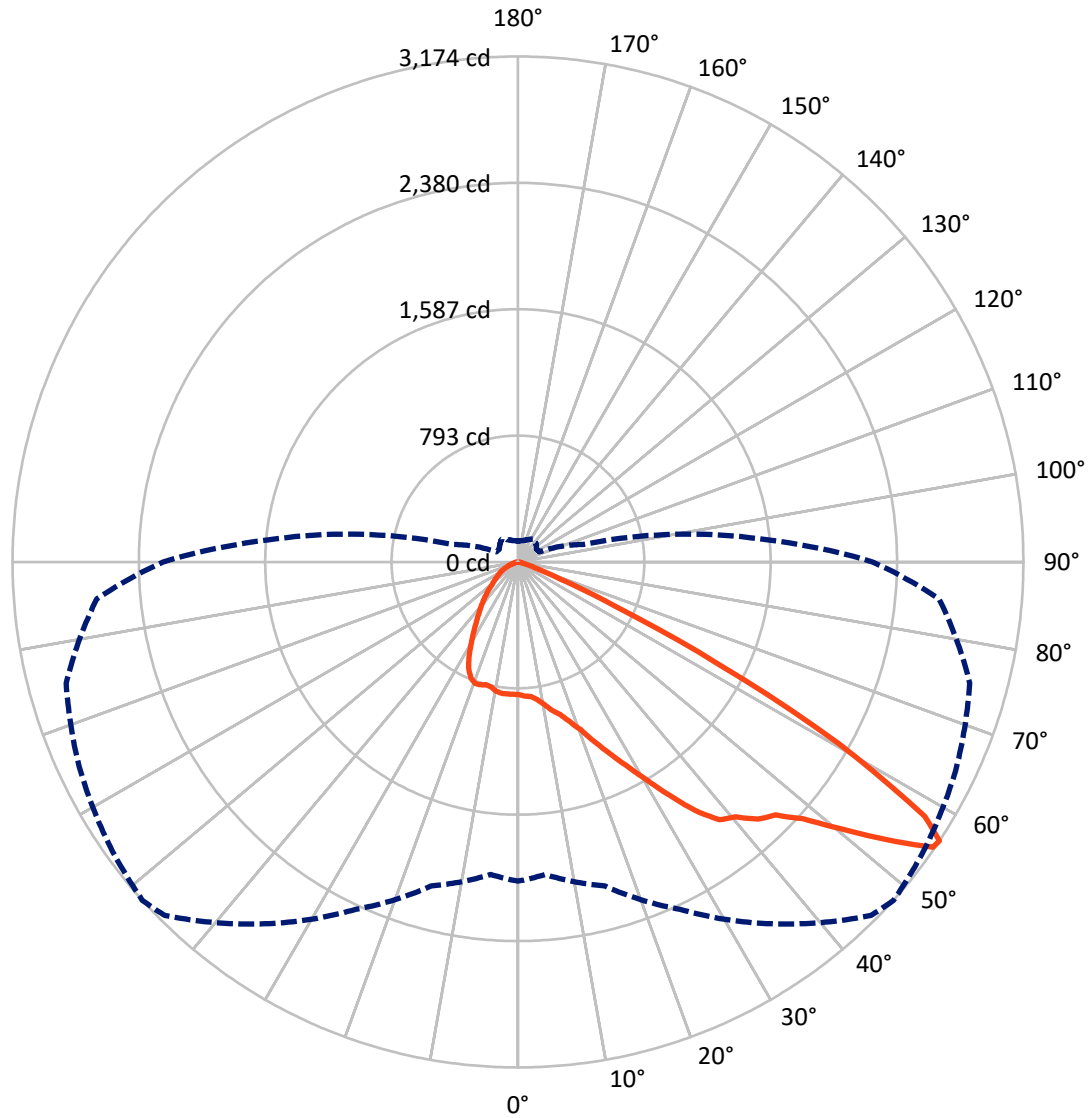
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

REPORT NUMBER: P526813
CATALOG NUMBER: GALN-SA1D-735-U-T3-GRSBK

Luminous Intensity Polar Plot



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

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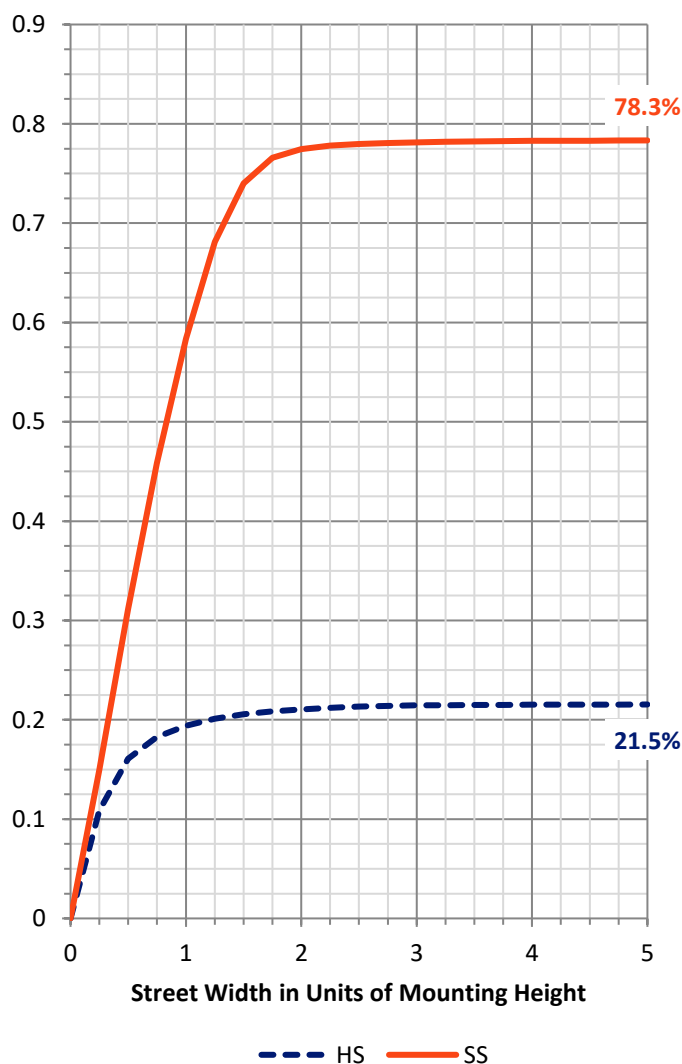
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.9	0.0	946.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3407.1	0.0	3407.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	4354.0	0.0	4354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.9
10°-20°	258.9	5.9
20°-30°	469.6	10.8
30°-40°	737.6	16.9
40°-50°	1076.0	24.7
50°-60°	1296.4	29.8
60°-70°	379.6	8.7
70°-80°	48.1	1.1
80°-90°	6.8	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°	4354.0	100.0
0°-180°	4354.0	100.0

Coefficient of Utilization

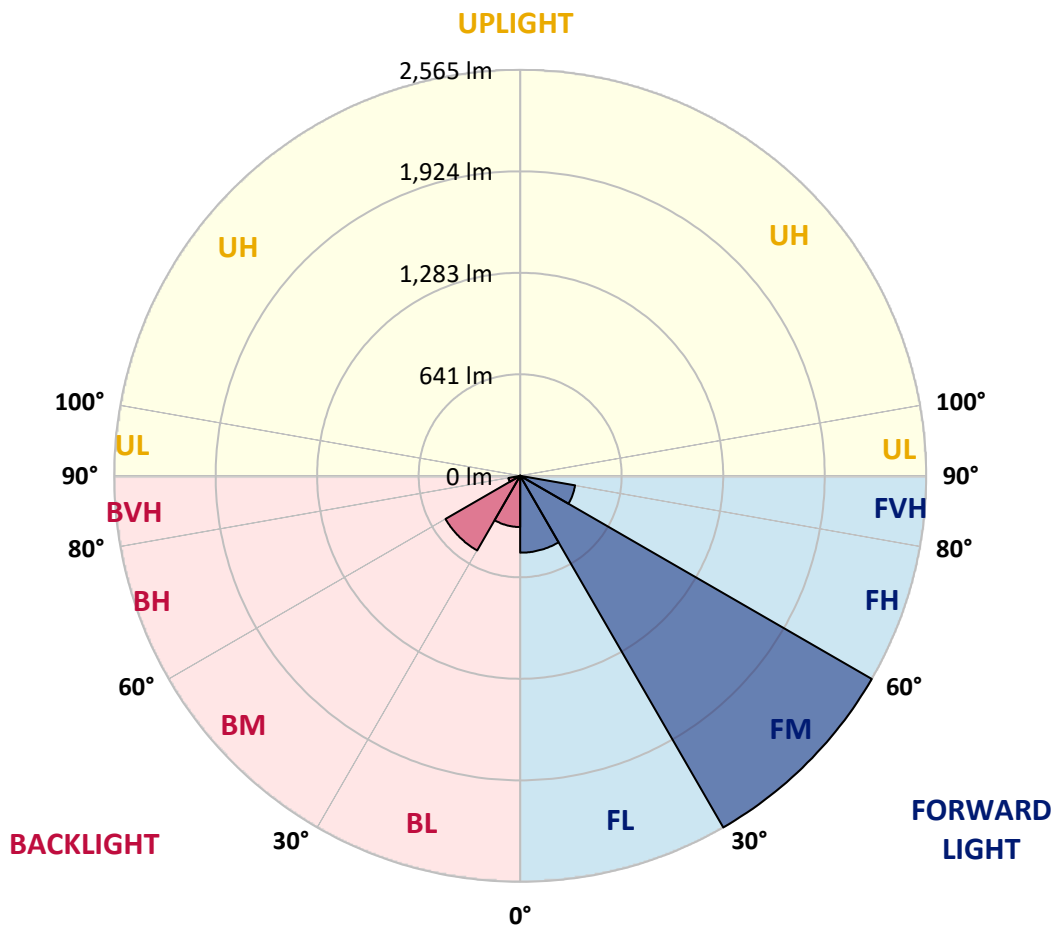


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.8	11.2			
FM (30°-60°)	2565.4	58.9			
FH (60°-80°)	352.5	8.1			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	323.6	7.4	B1/500		
BM (30°-60°)	544.7	12.5	B1/1000		
BH (60°-80°)	75.2	1.7	B0/110		G0/110
BVH (80°-90°)	3.4	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°	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
2.5°	846.7	842.7	842.7	836.4	843.5	840.3	842.7	834.8	842.7	830.8	840.3
5°	850.6	851.4	848.3	852.2	852.2	857.0	849.1	856.2	860.2	851.4	847.5
7.5°	871.3	872.8	872.0	868.9	875.2	874.4	873.6	868.1	869.7	866.5	861.7
10°	911.7	910.9	914.9	906.9	902.2	907.7	909.3	900.6	894.2	891.9	876.8
12.5°	970.4	960.8	955.3	947.4	949.7	941.8	956.1	941.0	937.8	923.6	908.5
15°	1017.9	1016.3	1017.1	1004.4	990.2	993.3	993.3	985.4	980.7	963.2	941.8
17.5°	1115.4	1082.1	1089.3	1073.4	1061.5	1060.7	1053.6	1055.2	1042.5	1006.0	973.5
20°	1191.5	1177.3	1166.2	1139.2	1121.0	1126.5	1123.4	1115.4	1111.5	1063.9	1017.9
22.5°	1259.7	1264.5	1246.2	1239.1	1213.7	1216.1	1222.5	1215.3	1185.2	1136.0	1067.9
25°	1355.6	1350.1	1325.5	1316.8	1293.0	1301.7	1326.3	1320.8	1301.7	1212.9	1106.7
27.5°	1469.0	1450.0	1454.7	1415.1	1392.1	1416.7	1446.0	1473.8	1419.9	1303.3	1152.7
30°	1549.1	1529.3	1527.7	1526.1	1520.5	1549.1	1583.2	1608.5	1564.9	1393.7	1228.8
32.5°	1588.7	1593.5	1606.9	1602.2	1650.5	1709.2	1744.9	1781.4	1726.7	1541.1	1329.5
35°	1694.1	1664.0	1694.1	1697.3	1747.3	1871.7	1916.9	2004.1	1990.6	1749.6	1452.4
37.5°	1756.0	1753.6	1757.6	1787.7	1836.1	1989.9	2054.1	2121.5	2096.1	1874.9	1605.4
40°	1858.3	1864.6	1863.8	1886.8	1939.9	2078.6	2104.8	2159.5	2161.9	2048.5	1830.5
42.5°	2022.4	1997.0	1980.3	2004.1	2078.6	2155.5	2207.9	2196.8	2275.3	2259.4	2119.9
45°	2169.8	2184.9	2160.3	2199.9	2226.9	2268.1	2266.5	2290.3	2390.2	2465.5	2337.9
47.5°	2307.8	2317.3	2329.2	2356.1	2414.8	2421.1	2407.6	2397.3	2535.3	2613.0	2506.7
50°	2390.2	2398.9	2454.4	2502.8	2612.2	2626.4	2634.4	2608.2	2701.8	2710.5	2666.1
52.5°	2368.0	2377.5	2455.2	2614.6	2789.0	2919.8	2896.0	2851.6	2846.0	2880.1	2813.5
55°	2171.4	2162.7	2269.7	2517.8	2844.5	3158.4	3161.6	3114.8	3025.2	3002.2	2791.3
56°	2004.1	1970.0	2106.4	2406.1	2773.1	3137.8	3173.5	3123.5	3039.5	2936.4	2654.2
57.5°	1641.8	1674.3	1809.9	2058.0	2526.6	2989.5	3010.1	2998.3	2934.8	2762.0	2335.5
60°	905.3	962.4	1082.1	1385.8	1798.8	2294.3	2310.9	2407.6	2419.5	2115.1	1606.9
62.5°	384.5	378.2	502.6	726.2	1024.3	1385.0	1415.9	1515.0	1533.2	1219.3	806.2
65°	156.2	164.9	227.5	365.5	541.5	631.0	674.6	707.2	767.4	503.4	297.3
67.5°	103.1	102.3	134.0	208.5	291.7	281.4	281.4	297.3	275.1	205.3	128.4
70°	73.7	76.1	95.9	144.3	181.5	134.8	129.2	123.7	140.3	135.6	103.9
72.5°	48.4	51.5	64.2	86.4	94.3	73.7	73.7	88.8	115.7	109.4	84.8
75°	31.7	32.5	39.6	49.9	46.8	38.1	42.0	59.5	84.0	80.9	60.3
77.5°	21.4	22.2	27.0	32.5	26.2	21.4	23.0	30.1	41.2	41.2	31.7
80°	7.9	8.7	11.1	10.3	11.9	15.1	16.6	20.6	24.6	24.6	21.4
82.5°	0.0	0.8	2.4	5.5	8.7	11.9	13.5	15.9	18.2	20.6	19.8
85°	0.0	0.8	2.4	4.0	6.3	7.1	7.9	5.5	4.8	4.8	4.0
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6	0.8	0.8
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°	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
2.5°	831.6	830.8	830.8	828.4	833.2	830.8	832.4	831.6	821.3	829.2	823.7
5°	840.3	845.9	837.2	835.6	829.2	831.6	831.6	823.7	830.8	830.0	828.4
7.5°	862.5	853.0	843.5	834.0	832.4	830.0	821.3	818.1	823.7	817.3	826.9
10°	872.0	873.6	859.4	846.7	834.8	818.1	806.2	799.1	790.4	799.9	805.5
12.5°	915.6	899.8	875.2	855.4	815.0	798.3	786.4	783.3	798.3	801.5	795.9
15°	930.7	928.3	896.6	852.2	810.2	790.4	792.8	786.4	788.0	780.1	781.7
17.5°	961.6	934.7	897.4	841.9	809.4	804.7	790.4	765.0	750.8	744.4	750.0
20°	995.7	969.6	915.6	845.9	816.6	803.9	757.1	726.2	696.8	681.0	681.8
22.5°	1025.8	993.3	907.7	847.5	822.9	770.6	714.3	653.2	616.8	592.2	593.0
25°	1062.3	1016.3	910.9	850.6	806.2	717.5	636.6	577.1	533.5	516.9	522.4
27.5°	1082.9	1030.6	928.3	857.8	762.6	642.1	554.9	499.4	474.1	466.1	465.4
30°	1144.8	1062.3	949.7	843.5	689.7	561.3	480.4	446.3	421.8	414.6	416.2
32.5°	1236.7	1120.2	977.5	806.2	615.2	489.1	432.1	406.7	383.7	370.2	368.6
35°	1313.6	1219.3	1006.8	748.4	528.8	433.6	398.0	366.3	331.4	316.3	312.4
37.5°	1460.3	1331.1	1000.5	661.2	446.3	392.4	361.5	322.7	292.5	271.9	269.5
40°	1655.3	1461.9	969.6	554.9	385.3	356.0	322.7	285.4	248.1	230.7	229.1
42.5°	1892.3	1622.0	913.3	447.1	324.2	319.5	289.4	246.6	213.3	200.6	201.4
45°	2085.0	1759.2	856.2	359.1	279.1	283.8	257.7	217.2	194.2	183.9	183.9
47.5°	2256.2	1851.9	794.4	296.5	237.0	248.1	225.1	201.4	181.5	173.6	172.0
50°	2421.1	1946.3	732.5	240.2	202.2	213.3	210.9	191.9	176.0	166.5	167.3
52.5°	2524.2	1961.3	654.0	196.6	176.8	189.5	197.4	180.0	162.5	157.0	155.4
55°	2398.1	1767.1	507.4	161.7	149.8	166.5	181.5	161.7	148.2	138.7	137.9
56°	2228.5	1580.0	424.1	149.0	141.9	160.1	176.0	154.6	139.5	134.0	130.0
57.5°	1886.8	1293.0	313.1	132.4	131.6	149.0	167.3	147.5	130.0	125.3	125.3
60°	1176.5	727.8	189.5	111.0	114.2	132.4	150.6	131.6	115.7	115.7	118.1
62.5°	535.9	302.8	115.0	94.3	98.3	114.2	134.0	118.9	110.2	118.9	120.5
65°	182.3	130.8	83.2	75.3	77.7	94.3	115.0	120.5	119.7	125.3	128.4
67.5°	102.3	84.0	69.8	62.6	61.0	69.8	94.3	120.5	115.7	113.4	115.0
70°	86.4	71.3	61.8	55.5	53.1	56.3	72.9	91.2	81.7	79.3	77.7
72.5°	69.8	59.5	53.9	49.9	42.8	36.5	33.3	34.9	38.8	41.2	45.2
75°	49.2	45.2	45.2	40.4	30.9	23.0	18.2	15.1	10.3	7.1	7.9
77.5°	27.7	27.7	28.5	24.6	19.8	15.1	11.1	7.9	4.0	1.6	0.8
80°	19.0	20.6	22.2	19.8	16.6	13.5	9.5	5.5	2.4	0.0	0.0
82.5°	19.0	21.4	23.0	19.8	16.6	12.7	9.5	5.5	2.4	0.8	0.0
85°	4.0	4.8	5.5	6.3	9.5	9.5	7.1	4.8	2.4	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)