

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: P526043

Luminaire Tested: **GALN-SA1A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2887 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

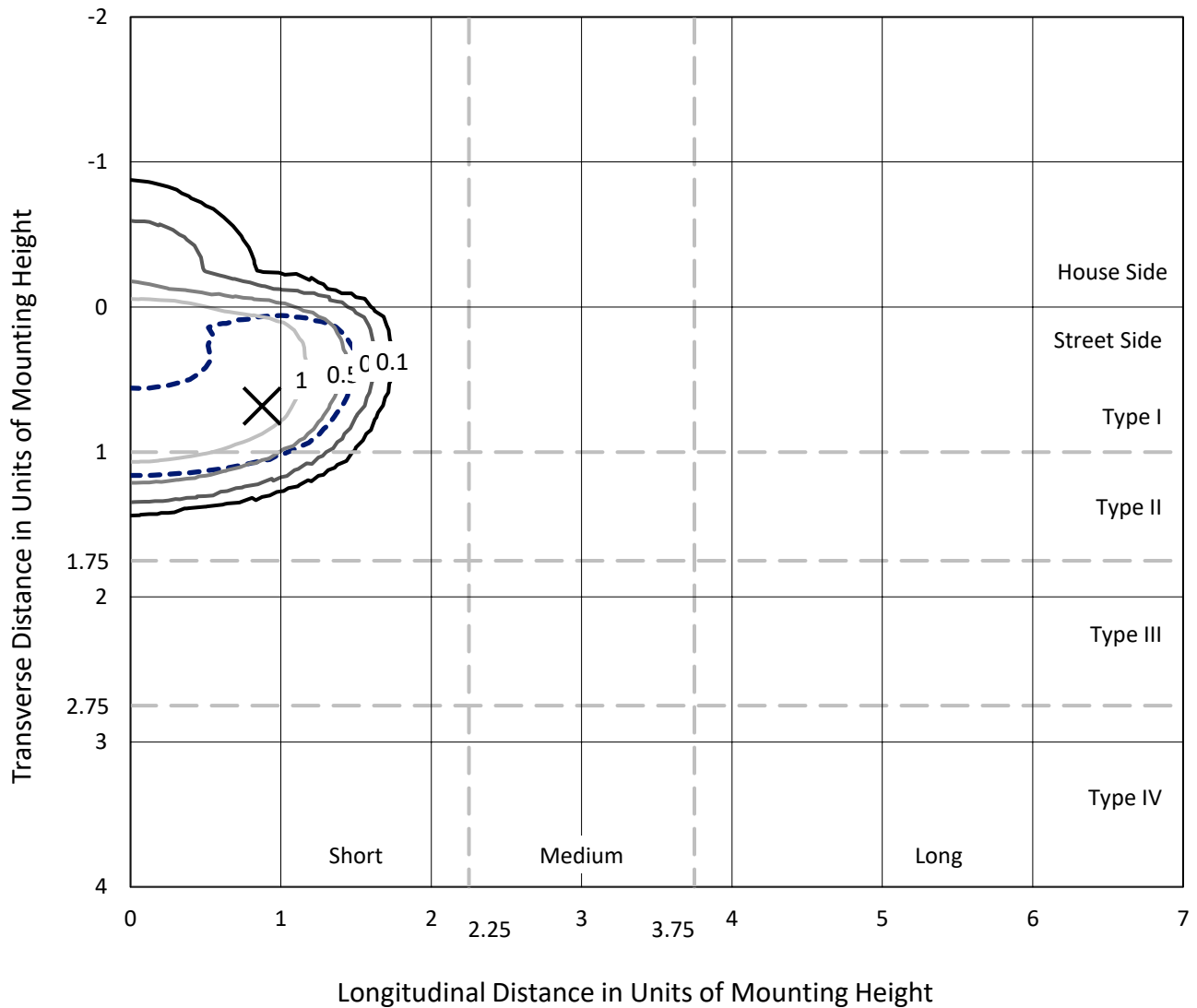
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

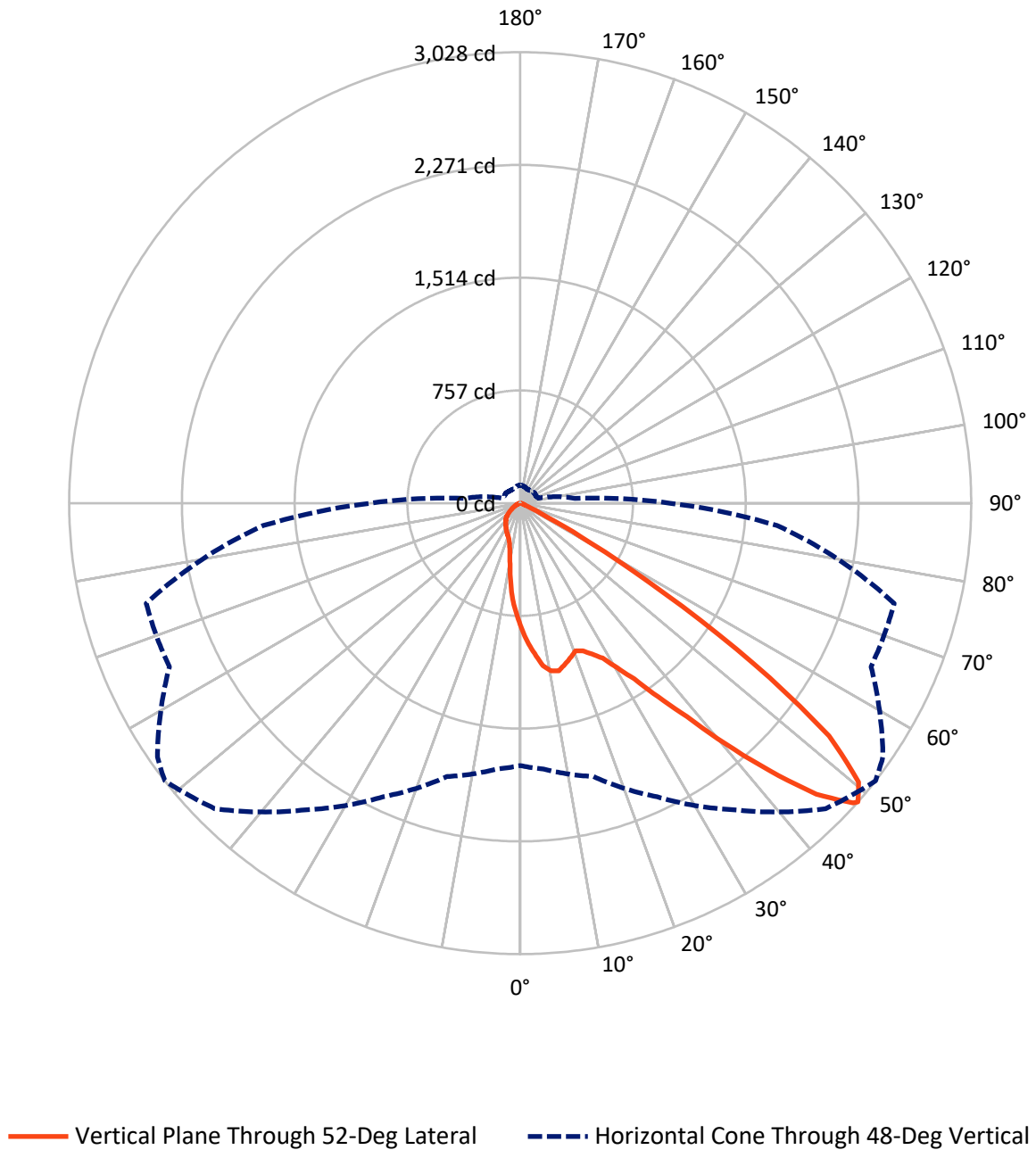
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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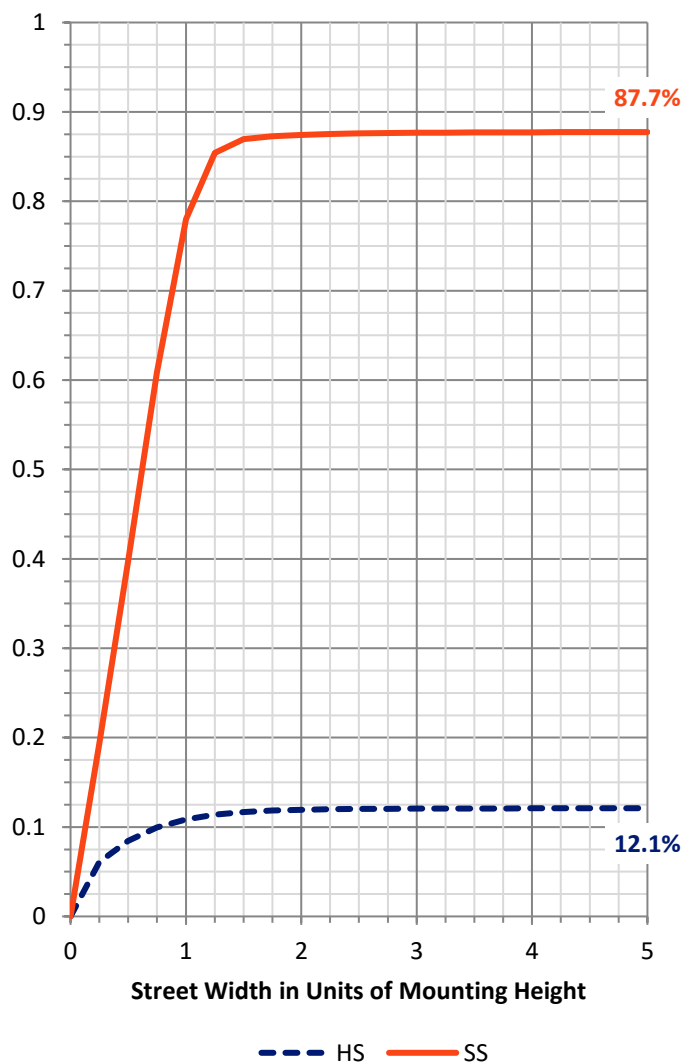
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.5	0.0	351.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2535.5	0.0	2535.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	2887.0	0.0	2887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	2.6
10°-20°	199.4	6.9
20°-30°	340.5	11.8
30°-40°	627.0	21.7
40°-50°	973.8	33.7
50°-60°	586.0	20.3
60°-70°	67.8	2.3
70°-80°	13.1	0.5
80°-90°	3.0	0.1
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°	2887.0	100.0
0°-180°	2887.0	100.0

Coefficient of Utilization



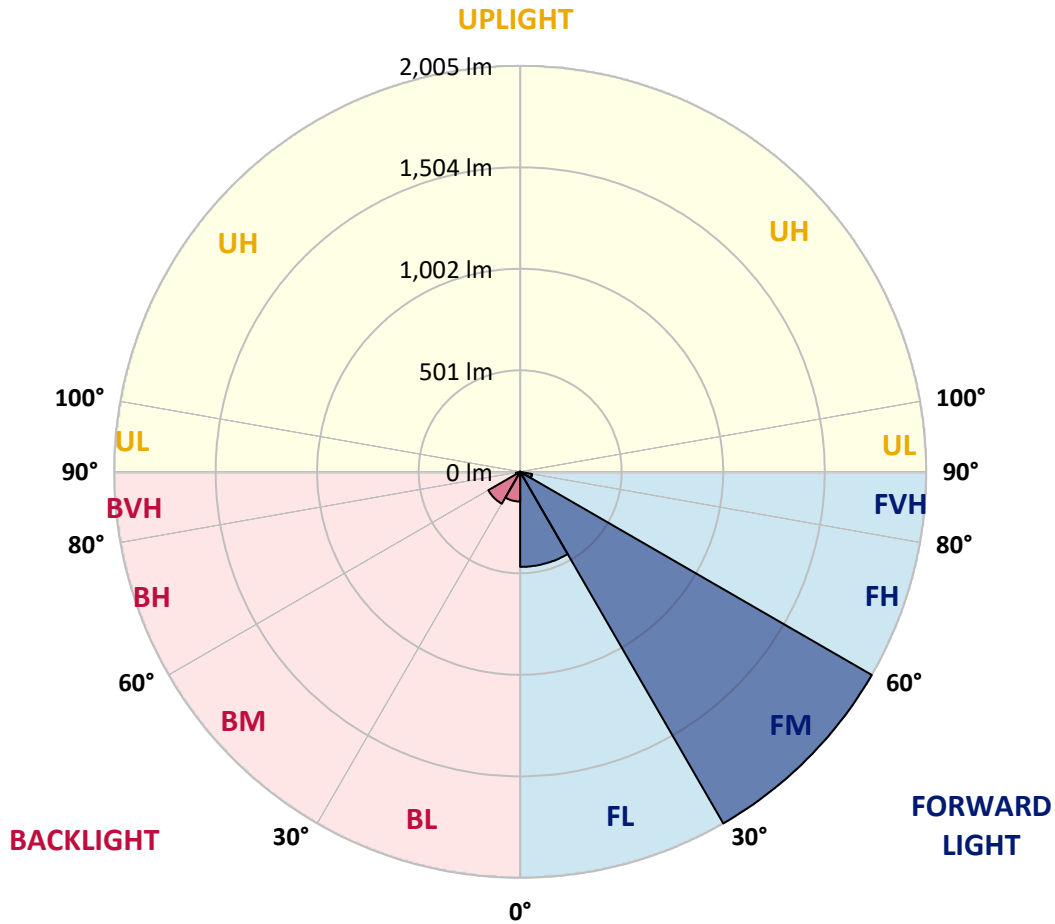
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.4	16.3			
FM (30°-60°)	2005.0	69.4			
FH (60°-80°)	59.7	2.1			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	146.8	5.1	B1/500		
BM (30°-60°)	181.9	6.3	B0/220		
BH (60°-80°)	21.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.6	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7
2.5°	1010.5	987.3	989.4	974.3	965.4	951.1	931.8	928.0	906.9	878.3	849.3
5°	1101.4	1095.9	1103.1	1081.2	1082.0	1058.5	1013.0	1013.8	965.4	918.7	873.7
7.5°	1107.3	1094.6	1101.8	1121.2	1132.5	1128.3	1102.6	1080.3	1034.5	965.9	900.2
10°	991.5	1015.5	1023.1	1055.1	1100.5	1148.5	1145.6	1146.8	1108.5	1018.9	922.9
12.5°	922.1	906.1	931.8	951.1	1019.7	1112.7	1155.3	1164.5	1167.5	1070.2	945.7
15°	890.5	890.5	894.7	900.2	949.9	1035.7	1122.4	1149.4	1212.9	1137.6	981.4
17.5°	910.3	909.5	915.4	904.0	922.5	988.6	1092.1	1122.8	1263.8	1203.7	1009.6
20°	970.5	973.4	969.7	936.8	938.1	987.8	1058.5	1106.9	1298.3	1260.9	1047.1
22.5°	1054.2	1055.9	1034.5	998.7	988.2	1012.6	1077.8	1114.9	1326.1	1329.5	1058.5
25°	1151.0	1144.3	1140.1	1089.6	1057.6	1078.7	1121.6	1143.0	1343.4	1388.4	1090.9
27.5°	1285.3	1271.8	1246.2	1201.1	1177.6	1147.7	1178.4	1213.8	1392.6	1470.9	1126.2
30°	1483.5	1471.7	1421.7	1363.6	1301.7	1272.3	1281.9	1301.3	1481.4	1566.4	1172.9
32.5°	1781.9	1757.1	1684.7	1574.0	1489.8	1408.6	1406.1	1426.7	1561.0	1698.6	1228.5
35°	2110.6	2103.0	1996.5	1882.5	1719.6	1594.2	1596.3	1607.3	1713.3	1872.0	1301.3
37.5°	2329.0	2370.7	2302.9	2180.5	2043.7	1864.4	1818.9	1822.7	1922.5	2077.3	1432.6
40°	2497.8	2462.4	2470.4	2441.8	2348.4	2226.3	2125.7	2106.0	2164.5	2304.6	1563.1
42.5°	2424.1	2425.8	2475.1	2542.8	2566.0	2557.1	2454.4	2417.0	2371.5	2490.6	1687.2
45°	2216.2	2259.6	2323.6	2502.8	2660.2	2808.0	2787.8	2725.5	2514.6	2637.9	1758.8
47.5°	1884.6	1882.9	1987.7	2220.9	2570.6	2916.5	3008.3	2964.5	2616.0	2621.5	1744.0
48°	1762.1	1792.4	1900.6	2175.0	2513.8	2900.5	3028.1	2972.9	2598.8	2599.6	1731.4
50°	1302.6	1297.1	1431.8	1768.4	2245.3	2725.5	2944.7	2987.7	2598.4	2488.9	1643.0
52.5°	688.1	711.7	809.7	1111.9	1587.5	2230.5	2597.5	2664.4	2506.6	2308.0	1515.9
55°	292.5	264.3	339.6	502.1	893.1	1490.3	1905.6	2054.6	2119.4	2042.4	1326.1
57.5°	104.4	114.1	131.3	189.0	375.4	815.6	1136.3	1252.0	1468.4	1498.7	903.6
60°	66.9	68.2	73.6	86.7	141.0	314.4	539.1	631.3	729.3	752.9	421.7
62.5°	51.8	52.2	54.7	56.8	66.9	122.0	202.4	239.9	249.1	214.2	110.7
65°	43.3	43.8	44.6	44.6	47.6	57.2	70.7	77.9	75.8	74.9	62.7
67.5°	33.2	34.1	35.8	35.8	37.5	34.9	39.1	41.7	47.1	57.2	53.4
70°	26.1	26.5	27.8	28.6	28.6	25.3	28.2	30.7	34.5	42.5	42.1
72.5°	20.2	21.0	21.9	21.9	20.6	17.3	20.2	22.3	24.8	29.5	28.6
75°	15.6	15.6	16.0	13.0	10.1	8.8	12.2	14.7	18.5	19.4	16.0
77.5°	4.2	4.6	4.2	3.8	4.2	6.3	8.0	9.3	11.8	11.8	10.5
80°	0.0	0.4	1.3	2.5	4.2	5.9	7.2	8.0	9.3	10.1	9.7
82.5°	0.0	0.4	1.3	2.5	3.8	4.6	6.3	6.7	7.6	8.8	8.8
85°	0.0	0.4	0.8	1.7	2.5	2.9	2.9	2.5	2.5	2.1	1.7
87.5°	0.0	0.0	0.4	0.8	0.8	1.3	1.3	1.3	1.3	1.3	1.3
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°	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7	833.7
2.5°	837.9	824.9	805.1	774.0	744.1	724.7	706.2	685.6	674.2	673.4	667.1
5°	848.0	818.6	771.4	718.0	660.7	611.5	561.8	529.4	500.4	484.4	481.5
7.5°	853.5	815.2	739.0	649.4	551.7	471.4	415.8	375.0	359.0	347.2	346.8
10°	864.9	809.3	690.6	558.5	437.7	356.5	318.2	299.7	290.8	287.4	282.4
12.5°	873.3	798.4	641.0	465.0	345.9	295.4	278.6	274.4	274.8	276.5	274.4
15°	885.1	788.7	574.0	381.7	290.4	266.0	266.0	266.8	272.7	273.6	273.1
17.5°	884.2	769.7	505.0	314.4	256.7	253.4	254.6	262.6	266.4	267.7	264.7
20°	894.3	752.1	433.9	268.5	237.8	242.8	251.3	253.4	258.0	258.8	255.5
22.5°	891.4	707.9	367.8	232.3	223.5	233.2	241.6	244.1	242.8	240.3	239.9
25°	885.9	670.0	307.2	208.3	213.0	223.5	231.5	226.8	224.3	224.7	225.2
27.5°	876.2	622.0	257.1	191.5	198.6	214.2	213.8	212.1	214.6	212.5	214.6
30°	874.5	574.0	215.9	176.3	188.1	199.5	200.3	203.3	206.2	202.4	206.2
32.5°	877.1	521.4	186.4	167.1	181.8	182.2	191.5	194.4	192.3	183.9	184.8
35°	896.4	481.0	165.0	162.0	171.7	172.1	181.0	177.2	167.9	162.9	165.8
37.5°	937.2	447.4	154.9	157.4	158.2	163.7	164.1	156.6	157.4	157.0	158.7
40°	989.4	421.7	147.7	153.2	152.4	156.1	141.0	145.2	149.0	150.2	151.1
42.5°	1025.2	403.2	143.1	146.5	144.8	138.0	129.6	133.8	136.8	141.4	142.2
45°	1041.2	388.5	137.6	134.7	134.7	122.5	119.1	119.9	126.7	131.7	130.9
47.5°	1015.1	374.1	127.9	119.1	122.0	111.9	108.2	108.2	115.3	121.6	120.4
48°	1005.0	368.2	128.4	115.7	117.8	110.3	106.5	105.6	113.6	119.5	119.5
50°	954.9	346.4	117.4	106.5	102.3	101.4	98.9	99.7	104.8	110.3	110.3
52.5°	857.3	299.2	99.3	91.3	83.8	88.8	90.1	88.4	90.9	96.0	95.5
55°	715.5	229.8	79.5	75.8	69.9	75.3	77.9	75.8	73.2	77.0	77.0
57.5°	458.3	123.7	63.5	64.4	58.5	64.0	66.1	61.0	56.4	59.3	58.9
60°	206.6	74.1	52.2	50.9	47.1	53.4	56.8	50.9	44.6	46.7	48.8
62.5°	77.4	52.6	39.6	38.7	37.9	43.8	45.5	40.8	34.5	35.8	36.2
65°	56.8	46.3	31.6	28.6	30.3	34.5	33.7	29.0	24.8	24.8	25.7
67.5°	48.4	40.4	25.7	22.3	22.3	22.7	21.0	18.5	17.3	18.1	18.9
70°	37.9	32.0	20.2	17.3	15.6	13.9	12.2	11.8	10.5	11.8	11.4
72.5°	24.4	21.5	15.6	13.0	11.8	9.7	8.0	7.6	6.3	5.9	5.9
75°	13.0	13.0	12.2	10.5	9.3	7.6	6.3	5.1	3.4	2.5	2.5
77.5°	9.3	10.1	10.9	10.1	8.4	6.3	5.1	3.4	1.7	0.8	0.8
80°	8.8	10.1	10.9	9.7	8.4	6.3	4.6	2.5	1.3	0.4	0.4
82.5°	8.0	9.3	10.1	8.8	7.6	5.5	4.2	2.5	1.3	0.4	0.4
85°	1.7	2.1	2.5	2.5	2.9	3.8	2.9	2.1	0.8	0.4	0.4
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.4	0.4	0.4
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)