

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: P300901

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL4-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4611.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

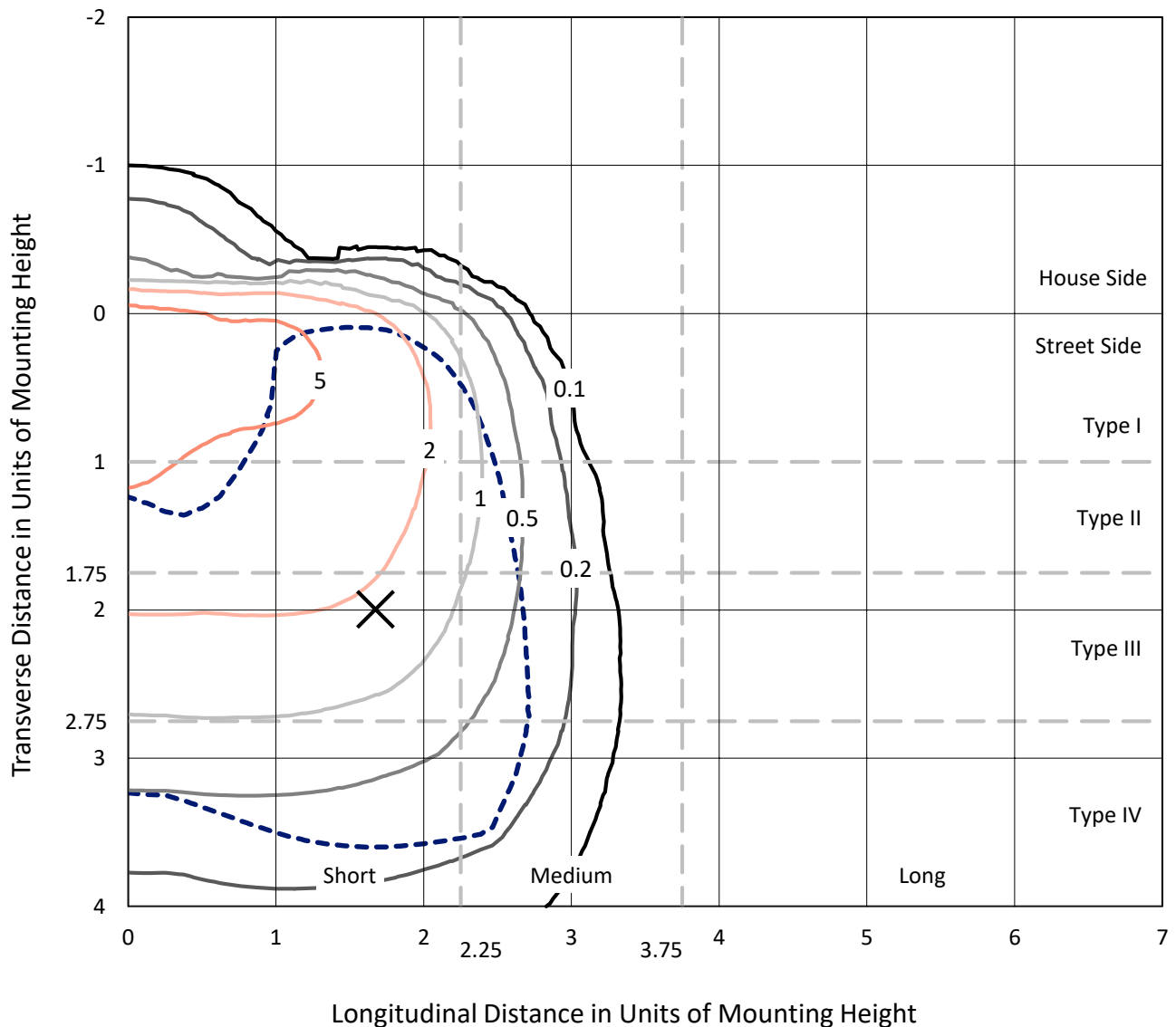
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300901
 CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-800

Iso-Footcandle Lines of Horizontal Illumination

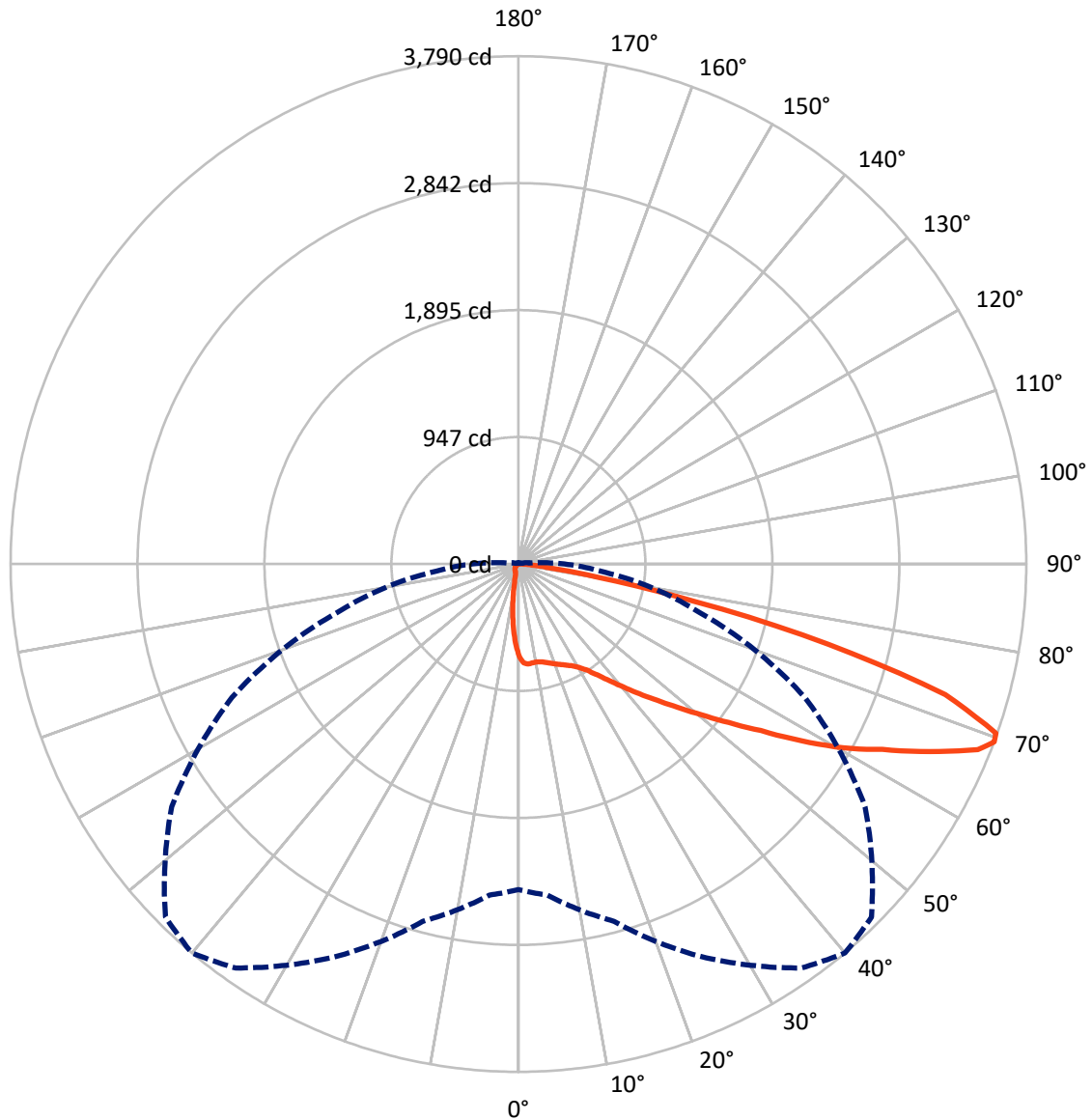
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300901
CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P300901

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-800

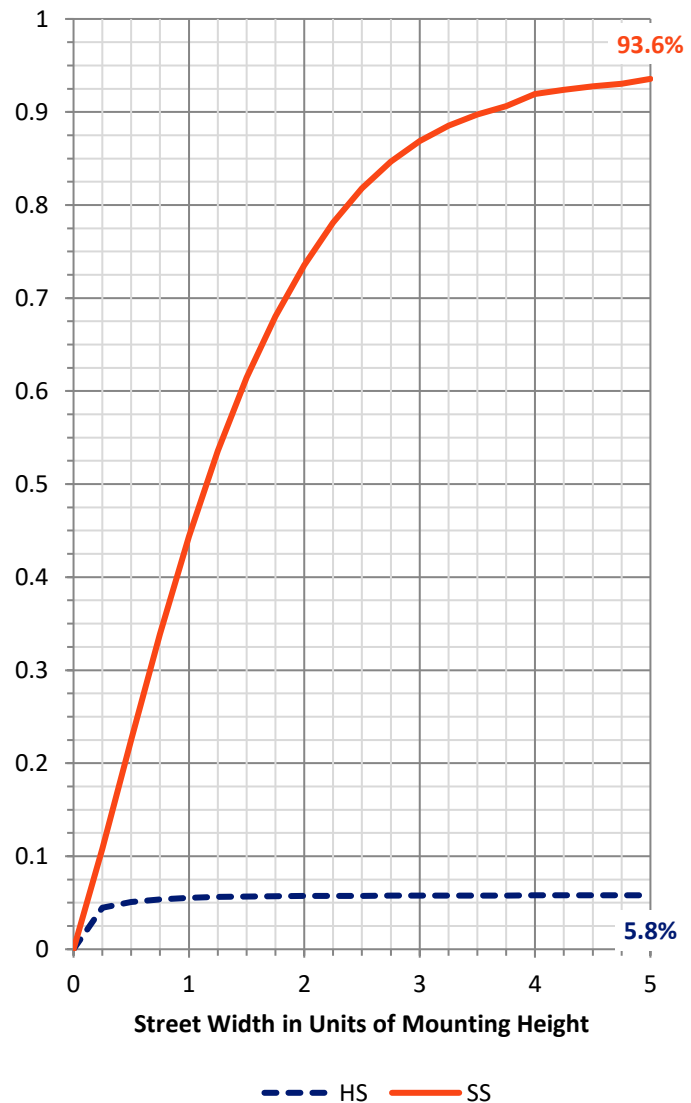
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	269.8	0.0	269.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4341.8	0.0	4341.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	4611.6	0.0	4611.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.2
10°-20°	137.4	3.0
20°-30°	231.4	5.0
30°-40°	378.8	8.2
40°-50°	655.9	14.2
50°-60°	1033.1	22.4
60°-70°	1349.2	29.3
70°-80°	694.9	15.1
80°-90°	75.2	1.6
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°	4611.6	100.0
0°-180°	4611.6	100.0



REPORT NUMBER: P300901

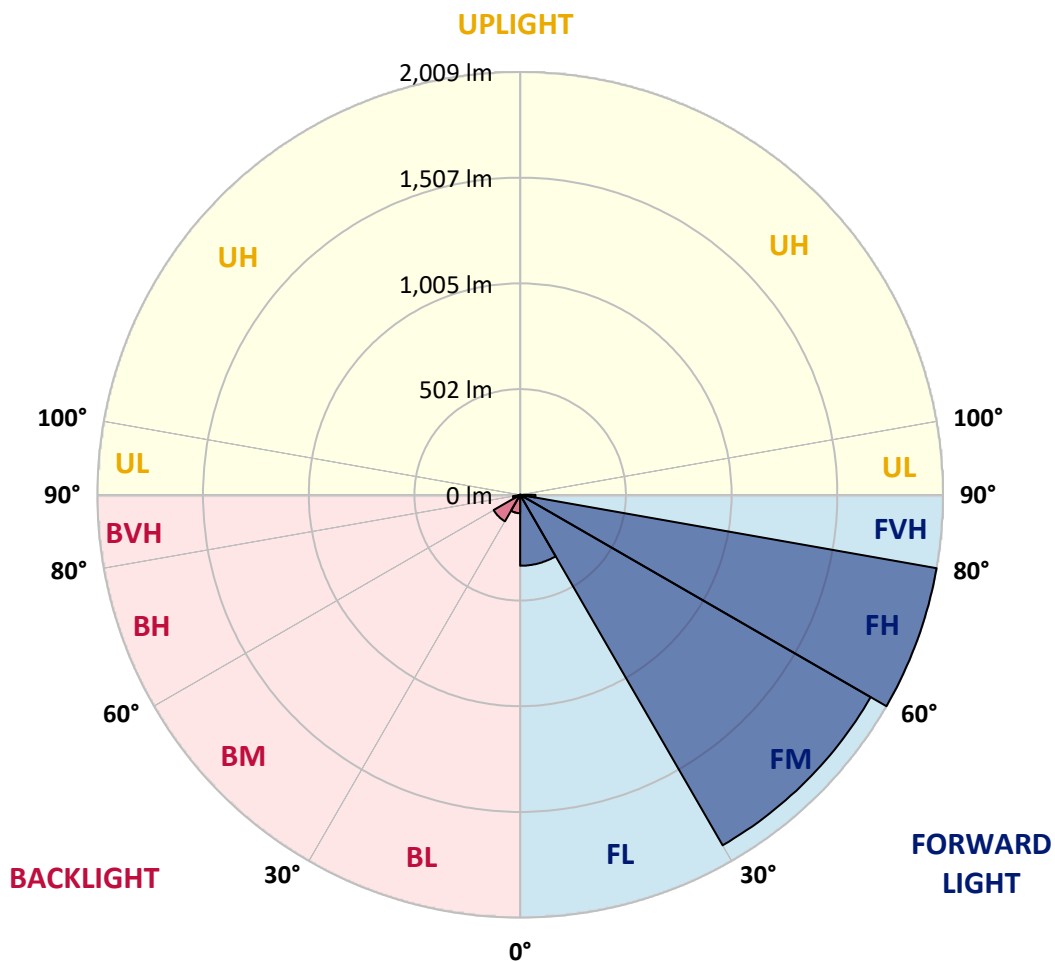
CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.2	7.3			
FM	(30°-60°)	1922.7	41.7			
FH	(60°-80°)	2009.0	43.6			G2/5000
FVH	(80°-90°)	72.8	1.6			G1/100
BL	(0°-30°)	87.4	1.9	B0/110		
BM	(30°-60°)	145.0	3.1	B0/220		
BH	(60°-80°)	35.0	0.8	B0/110		G0/110
BVH	(80°-90°)	2.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





REPORT NUMBER: P300901

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
2.5°	756.5	752.4	749.9	746.6	742.5	739.0	737.6	727.4	717.8	704.6	689.5
5°	770.5	769.2	764.8	760.4	755.4	749.9	746.9	734.8	721.1	701.9	675.5
7.5°	771.9	770.2	764.8	758.7	751.9	745.3	740.1	728.0	715.3	695.9	663.7
10°	769.7	767.8	763.7	757.1	748.6	742.3	737.0	725.5	714.8	697.2	661.5
12.5°	767.2	765.3	763.4	760.1	752.7	748.3	743.9	732.9	723.3	708.5	669.5
15°	769.7	768.6	770.8	769.4	765.3	761.5	757.1	747.2	738.4	726.1	684.1
17.5°	780.1	780.1	787.0	787.8	784.0	778.5	772.2	762.3	754.9	744.4	701.3
20°	804.6	803.7	812.5	814.2	804.8	796.3	787.0	774.9	769.2	762.6	718.4
22.5°	846.6	842.7	847.9	846.3	827.9	814.7	803.2	788.4	785.3	782.3	737.3
25°	901.2	899.0	902.6	886.4	854.0	836.1	822.4	805.7	805.7	808.7	758.7
27.5°	980.5	972.3	960.2	931.7	883.1	860.3	845.5	827.6	832.3	843.5	787.0
30°	1061.8	1052.7	1025.0	981.1	918.5	894.6	877.3	858.6	869.6	890.2	824.9
32.5°	1141.9	1131.8	1092.5	1037.1	969.3	945.4	928.6	908.0	926.4	961.0	880.3
35°	1219.6	1210.5	1165.3	1099.9	1036.8	1017.0	1001.7	983.8	1007.4	1055.7	958.6
37.5°	1306.9	1297.0	1241.8	1171.0	1118.9	1104.6	1093.3	1075.5	1116.7	1187.5	1067.5
40°	1414.2	1397.5	1323.1	1252.5	1213.8	1207.0	1199.3	1196.8	1260.8	1358.8	1212.7
42.5°	1537.2	1509.8	1408.2	1338.5	1318.2	1323.1	1321.2	1332.2	1441.1	1571.8	1389.5
45°	1660.2	1624.8	1502.9	1430.2	1432.9	1450.2	1460.9	1504.8	1667.0	1816.1	1579.8
47.5°	1764.5	1729.6	1593.8	1529.2	1562.2	1596.2	1625.3	1708.5	1899.3	2056.6	1727.7
50°	1853.7	1820.8	1690.1	1638.2	1712.3	1767.2	1814.5	1937.7	2149.1	2239.7	1831.5
52.5°	1926.7	1904.8	1790.0	1763.1	1883.9	1964.3	2033.5	2181.2	2370.3	2388.4	1912.2
55°	1997.8	1982.2	1897.4	1911.6	2085.4	2194.9	2282.5	2439.5	2560.8	2512.5	1989.6
57.5°	2079.6	2065.3	2019.8	2099.9	2350.3	2488.1	2583.6	2668.4	2728.5	2639.3	2062.6
60°	2163.1	2154.8	2155.9	2309.1	2654.4	2786.7	2839.4	2861.4	2893.2	2758.7	2066.7
62.5°	2242.7	2258.3	2311.6	2541.9	2945.7	3047.2	3073.9	3095.5	3058.2	2777.7	1909.4
65°	2377.5	2403.0	2530.1	2853.4	3266.0	3374.7	3402.2	3327.8	3084.3	2532.8	1553.1
67.5°	2443.3	2490.0	2716.7	3143.9	3576.7	3697.5	3687.4	3342.9	2767.8	1931.4	996.7
69°	2429.6	2479.3	2759.8	3232.8	3680.0	3789.5	3725.0	3158.1	2358.0	1399.1	611.9
70°	2375.3	2425.5	2737.6	3229.5	3693.1	3779.9	3655.3	2930.0	1993.7	1023.1	382.7
72.5°	1983.5	2026.9	2430.4	2919.0	3402.2	3331.6	3057.9	2029.9	971.5	278.6	86.2
75°	1221.0	1245.1	1743.9	2199.0	2569.6	2388.4	2037.3	1009.9	289.6	78.8	47.8
77.5°	645.1	656.1	954.7	1296.2	1628.9	1347.8	1044.2	393.9	133.4	49.4	34.6
80°	381.3	389.5	514.1	592.6	704.9	588.8	417.5	241.8	95.5	31.0	30.7
82.5°	218.2	223.4	372.8	329.4	277.8	237.2	207.8	229.2	57.4	20.9	31.8
85°	80.2	81.3	209.7	250.6	165.2	98.3	103.2	190.0	15.4	13.2	25.0
87.5°	37.3	36.5	107.9	153.4	96.6	62.3	80.4	41.7	6.0	8.5	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300901

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0	689.0
2.5°	680.8	670.6	652.2	633.3	614.1	599.2	584.7	573.2	569.3	562.2	562.7
5°	659.9	641.2	602.8	563.8	523.2	489.7	458.1	432.6	420.3	407.6	407.6
7.5°	641.8	614.6	554.5	491.1	425.5	370.3	320.6	283.3	262.7	246.2	246.0
10°	634.9	598.1	514.1	423.3	331.9	256.7	197.6	159.8	140.3	127.6	127.1
12.5°	637.9	592.4	483.1	360.7	246.0	165.0	114.5	90.0	81.8	78.0	78.0
15°	646.7	590.7	452.1	299.5	173.8	103.2	76.0	69.4	68.9	68.9	68.9
17.5°	657.4	591.3	420.3	239.9	118.3	73.8	65.6	64.8	65.3	65.3	65.3
20°	668.4	591.5	385.9	184.7	83.4	64.2	61.8	61.5	62.0	62.0	62.3
22.5°	681.9	592.9	351.6	138.1	68.9	60.7	58.7	58.7	59.0	59.0	58.7
25°	697.2	595.7	316.0	102.4	62.9	58.2	56.5	56.3	56.5	56.3	56.0
27.5°	716.4	599.5	276.1	80.2	60.1	55.7	54.4	54.4	54.1	53.8	53.5
30°	740.6	603.9	231.4	68.1	57.4	53.5	52.2	51.9	51.6	51.1	51.1
32.5°	777.4	613.5	187.2	61.8	54.4	50.5	49.4	49.4	48.9	48.3	48.0
35°	833.9	632.5	147.7	57.9	51.1	47.2	45.8	45.8	45.3	45.0	44.7
37.5°	912.2	661.3	114.7	54.4	47.8	43.6	42.3	42.0	41.4	40.9	40.6
40°	1016.2	697.0	90.3	51.1	44.5	40.1	39.0	38.4	37.3	36.5	36.5
42.5°	1146.9	737.6	73.3	47.5	40.6	36.8	36.0	35.1	33.2	32.4	32.1
45°	1283.6	774.1	62.0	43.4	36.8	33.5	32.9	31.6	29.1	28.3	28.3
47.5°	1382.1	782.6	54.6	39.5	33.2	29.9	29.6	27.2	25.0	24.4	24.2
50°	1443.6	765.9	48.6	35.7	29.9	26.6	25.8	22.8	21.4	20.9	20.6
52.5°	1485.1	735.9	43.6	32.4	26.9	23.6	21.7	19.5	18.4	17.8	17.8
55°	1518.3	693.7	38.7	29.4	24.4	21.1	18.4	16.7	15.6	15.1	15.1
57.5°	1527.6	636.3	33.8	26.9	22.0	18.7	15.6	14.5	13.2	12.9	12.9
60°	1459.8	532.8	29.9	23.9	19.8	16.2	13.7	12.4	11.0	10.7	10.4
62.5°	1281.1	412.3	26.4	21.1	17.3	14.0	11.8	10.2	9.1	9.1	9.1
65°	977.2	276.4	23.1	18.4	15.1	11.8	10.2	8.2	7.7	7.7	8.0
67.5°	585.0	150.4	19.8	15.6	12.9	9.9	8.5	7.1	6.9	7.1	7.1
69°	342.9	88.4	17.8	14.0	11.3	8.8	7.4	6.3	6.9	7.1	7.1
70°	211.6	59.6	16.5	12.6	10.2	8.0	6.9	6.0	6.6	6.9	6.9
72.5°	59.0	30.7	13.2	9.9	8.2	6.6	5.5	5.5	6.3	6.6	6.6
75°	38.4	22.8	10.2	7.4	6.3	5.2	4.7	5.2	6.0	6.3	6.3
77.5°	31.8	18.7	8.2	6.0	5.2	4.9	4.4	4.7	5.5	5.8	5.8
80°	29.1	13.2	6.6	5.5	4.7	4.4	4.1	3.8	4.9	5.2	5.2
82.5°	27.7	10.4	5.8	4.9	4.4	3.8	3.6	3.8	4.4	4.7	4.9
85°	17.3	6.9	5.2	4.7	3.8	3.6	3.6	3.6	4.1	4.4	4.4
87.5°	6.3	5.5	4.7	3.8	3.3	3.3	3.3	3.3	3.6	4.1	4.1
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)