

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: P300840

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300840
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-SL4-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5127.3 lumens
Efficiency: N/A
Efficacy: 86.9 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

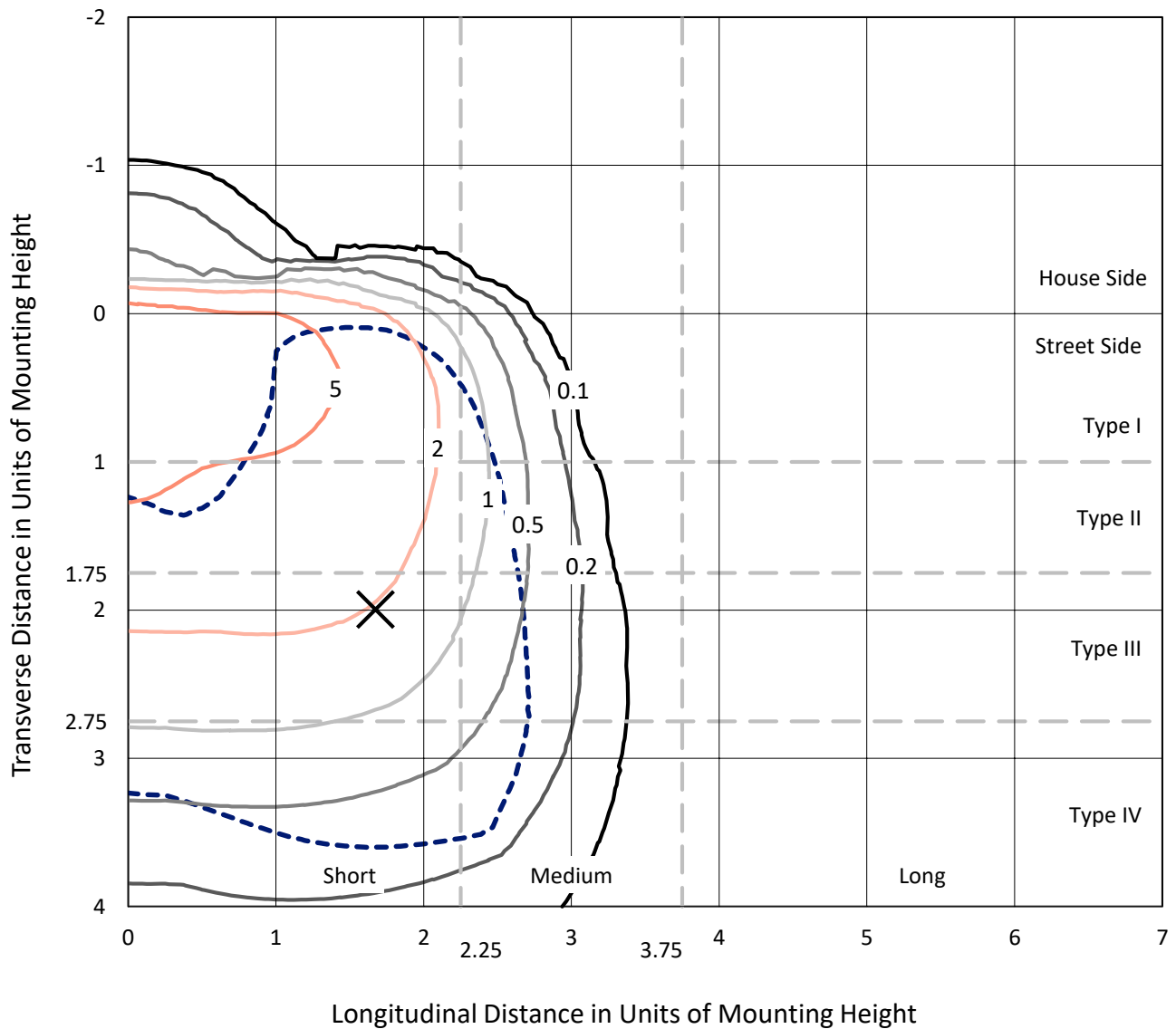
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

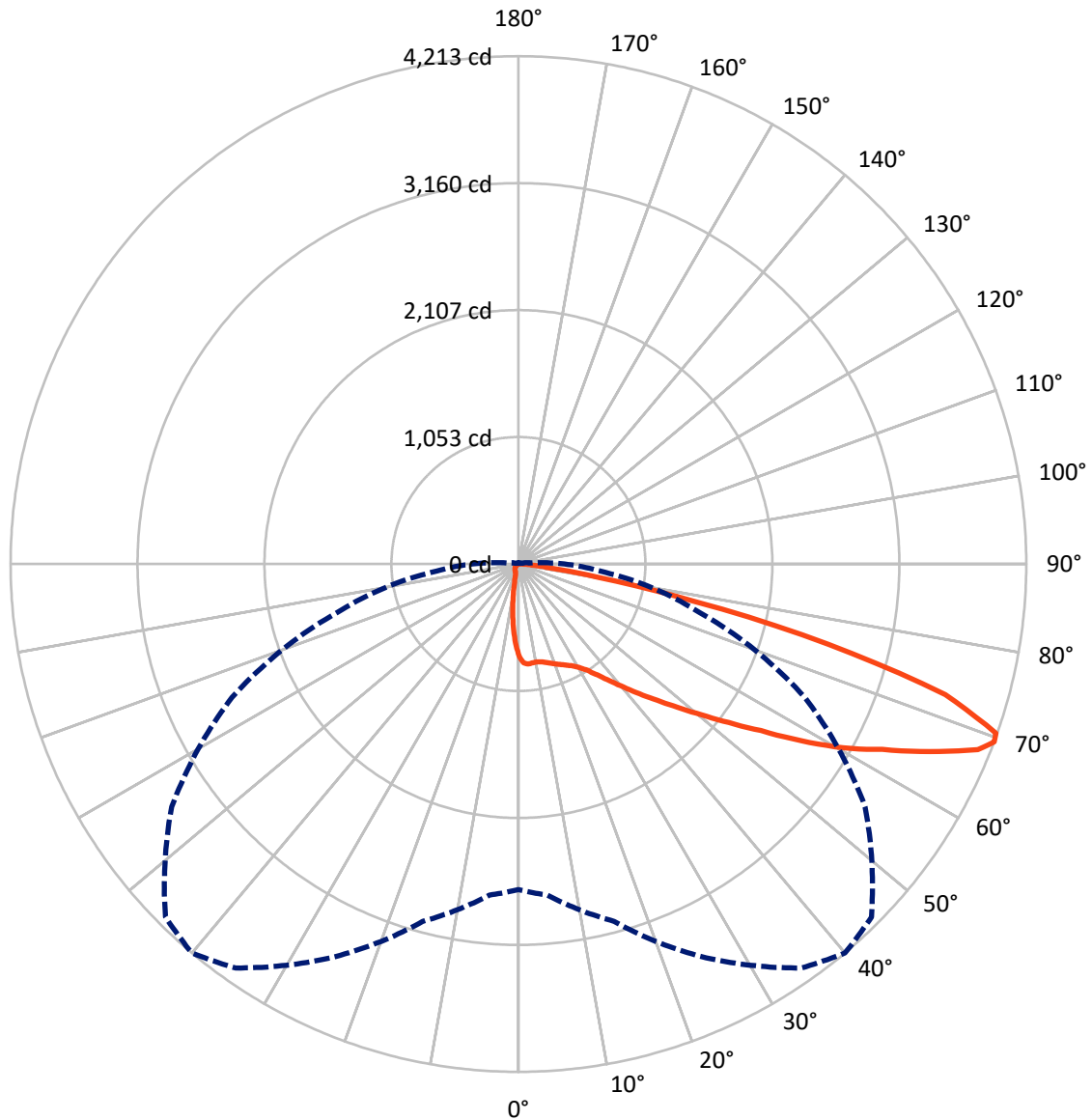
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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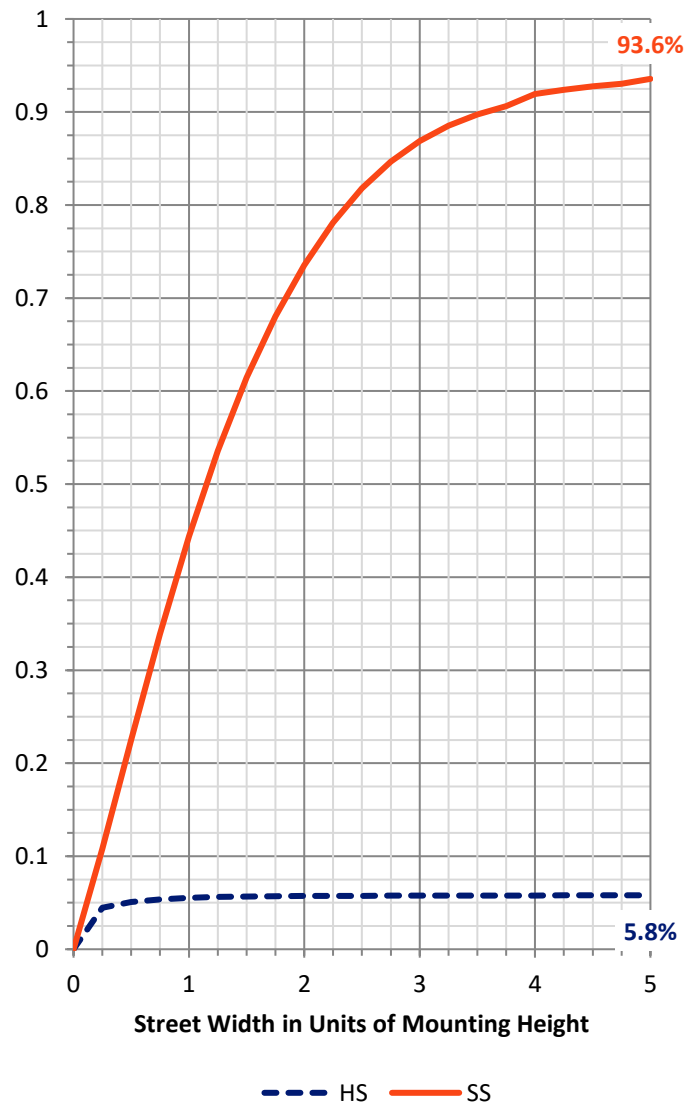
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.0	0.0	300.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4827.4	0.0	4827.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	5127.3	0.0	5127.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	1.2
10°-20°	152.7	3.0
20°-30°	257.3	5.0
30°-40°	421.2	8.2
40°-50°	729.2	14.2
50°-60°	1148.6	22.4
60°-70°	1500.0	29.3
70°-80°	772.6	15.1
80°-90°	83.6	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°	5127.3	100.0
0°-180°	5127.3	100.0



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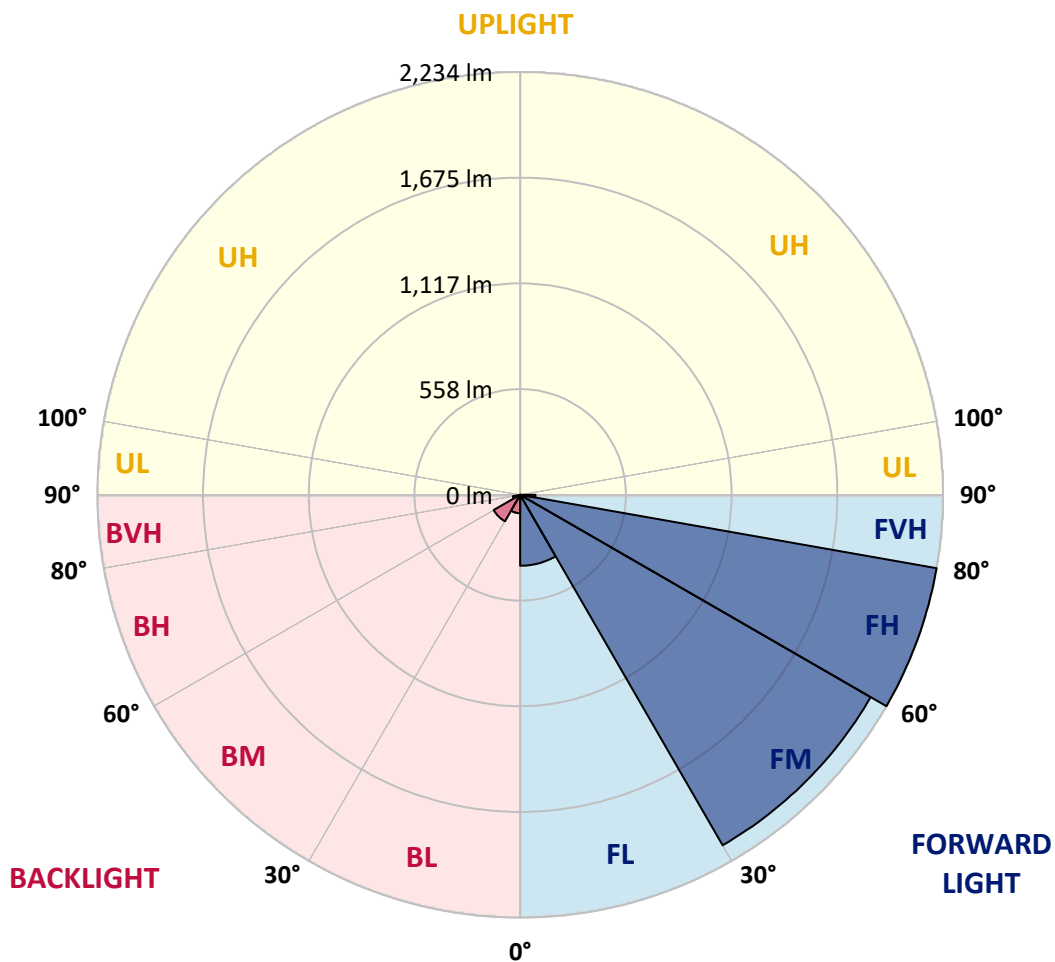
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.0	7.3			
FM	(30°-60°)	2137.8	41.7			
FH	(60°-80°)	2233.7	43.6			G2/5000
FVH	(80°-90°)	80.9	1.6			G1/100
BL	(0°-30°)	97.2	1.9	B0/110		
BM	(30°-60°)	161.2	3.1	B0/220		
BH	(60°-80°)	38.9	0.8	B0/110		G0/110
BVH	(80°-90°)	2.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1
2.5°	841.1	836.6	833.8	830.1	825.6	821.6	820.1	808.8	798.1	783.4	766.7
5°	856.7	855.2	850.3	845.4	839.9	833.8	830.4	817.0	801.8	780.4	751.1
7.5°	858.2	856.4	850.3	843.6	835.9	828.6	822.8	809.4	795.3	773.7	738.0
10°	855.8	853.6	849.1	841.7	832.3	825.3	819.5	806.6	794.7	775.2	735.5
12.5°	853.0	850.9	848.8	845.1	836.9	832.0	827.1	814.9	804.2	787.7	744.4
15°	855.8	854.6	857.0	855.5	850.9	846.6	841.7	830.8	821.0	807.3	760.6
17.5°	867.4	867.4	875.0	875.9	871.6	865.5	858.5	847.5	839.3	827.7	779.8
20°	894.5	893.6	903.4	905.2	894.8	885.4	875.0	861.6	855.2	847.8	798.7
22.5°	941.2	937.0	942.8	940.9	920.5	905.8	893.0	876.5	873.2	869.8	819.8
25°	1002.0	999.5	1003.5	985.5	949.5	929.6	914.4	895.8	895.8	899.1	843.6
27.5°	1090.2	1081.0	1067.6	1035.8	981.8	956.5	940.0	920.2	925.4	937.9	875.0
30°	1180.5	1170.4	1139.6	1090.8	1021.2	994.6	975.4	954.7	966.9	989.8	917.1
32.5°	1269.6	1258.3	1214.7	1153.0	1077.7	1051.1	1032.5	1009.6	1030.0	1068.5	978.8
35°	1356.0	1345.9	1295.6	1222.9	1152.7	1130.8	1113.7	1093.8	1120.1	1173.8	1065.8
37.5°	1453.1	1442.1	1380.7	1302.0	1244.0	1228.1	1215.6	1195.8	1241.6	1320.3	1186.9
40°	1572.4	1553.8	1471.1	1392.6	1349.6	1342.0	1333.4	1330.7	1401.8	1510.7	1348.4
42.5°	1709.1	1678.6	1565.7	1488.2	1465.6	1471.1	1468.9	1481.1	1602.3	1747.6	1544.9
45°	1845.8	1806.5	1671.0	1590.1	1593.1	1612.4	1624.3	1673.1	1853.5	2019.2	1756.4
47.5°	1961.8	1923.1	1772.0	1700.3	1736.9	1774.7	1807.1	1899.6	2111.7	2286.6	1920.9
50°	2061.0	2024.4	1879.1	1821.4	1903.8	1964.9	2017.4	2154.4	2389.4	2490.1	2036.3
52.5°	2142.2	2117.8	1990.2	1960.3	2094.6	2184.0	2260.9	2425.1	2635.4	2655.5	2126.0
55°	2221.2	2203.8	2109.5	2125.4	2318.6	2440.4	2537.7	2712.3	2847.2	2793.5	2212.1
57.5°	2312.2	2296.3	2245.7	2334.8	2613.1	2766.3	2872.5	2966.8	3033.7	2934.5	2293.3
60°	2405.0	2395.8	2397.0	2567.3	2951.3	3098.4	3157.0	3181.4	3216.8	3067.3	2297.8
62.5°	2493.5	2510.9	2570.1	2826.1	3275.1	3388.0	3417.6	3441.7	3400.2	3088.3	2123.0
65°	2643.3	2671.7	2813.0	3172.5	3631.3	3752.1	3782.6	3699.9	3429.2	2816.1	1726.8
67.5°	2716.6	2768.5	3020.6	3495.4	3976.7	4111.0	4099.7	3716.7	3077.3	2147.4	1108.2
69°	2701.3	2756.6	3068.5	3594.3	4091.5	4213.3	4141.6	3511.3	2621.7	1555.6	680.3
70°	2640.9	2696.7	3043.8	3590.7	4106.2	4202.6	4064.0	3257.7	2216.7	1137.5	425.4
72.5°	2205.4	2253.6	2702.2	3245.5	3782.6	3704.2	3399.9	2257.0	1080.1	309.8	95.8
75°	1357.5	1384.4	1938.9	2445.0	2857.0	2655.5	2265.2	1122.8	322.0	87.6	53.1
77.5°	717.2	729.4	1061.5	1441.2	1811.1	1498.5	1161.0	438.0	148.3	54.9	38.5
80°	423.9	433.1	571.6	658.9	783.8	654.7	464.2	268.9	106.2	34.5	34.2
82.5°	242.6	248.4	414.5	366.2	308.9	263.7	231.0	254.8	63.8	23.2	35.4
85°	89.1	90.3	233.2	278.6	183.7	109.3	114.8	211.2	17.1	14.6	27.8
87.5°	41.5	40.6	119.9	170.6	107.4	69.3	89.4	46.4	6.7	9.5	7.6
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°	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1	766.1
2.5°	756.9	745.6	725.2	704.1	682.7	666.3	650.1	637.3	633.0	625.0	625.7
5°	733.7	712.9	670.2	626.9	581.7	544.5	509.4	481.0	467.3	453.2	453.2
7.5°	713.6	683.3	616.5	546.0	473.1	411.7	356.5	315.0	292.1	273.8	273.5
10°	705.9	665.0	571.6	470.6	369.0	285.4	219.7	177.6	156.0	141.9	141.3
12.5°	709.3	658.6	537.2	401.0	273.5	183.4	127.3	100.1	90.9	86.7	86.7
15°	719.1	656.8	502.7	333.0	193.2	114.8	84.5	77.2	76.6	76.6	76.6
17.5°	731.0	657.4	467.3	266.7	131.5	82.1	72.9	72.0	72.6	72.6	72.6
20°	743.2	657.7	429.1	205.4	92.8	71.4	68.7	68.4	69.0	69.0	69.3
22.5°	758.1	659.2	391.0	153.5	76.6	67.4	65.3	65.3	65.6	65.6	65.3
25°	775.2	662.3	351.3	113.8	69.9	64.7	62.9	62.6	62.9	62.6	62.3
27.5°	796.6	666.6	307.0	89.1	66.8	62.0	60.4	60.4	60.1	59.8	59.5
30°	823.4	671.4	257.3	75.7	63.8	59.5	58.0	57.7	57.4	56.8	56.8
32.5°	864.3	682.1	208.1	68.7	60.4	56.2	54.9	54.9	54.3	53.7	53.4
35°	927.2	703.2	164.2	64.4	56.8	52.5	51.0	51.0	50.4	50.1	49.7
37.5°	1014.2	735.2	127.6	60.4	53.1	48.5	47.0	46.7	46.1	45.5	45.2
40°	1129.8	774.9	100.4	56.8	49.4	44.6	43.3	42.7	41.5	40.6	40.6
42.5°	1275.1	820.1	81.5	52.8	45.2	40.9	40.0	39.1	36.9	36.0	35.7
45°	1427.1	860.7	69.0	48.2	40.9	37.2	36.6	35.1	32.4	31.4	31.4
47.5°	1536.7	870.1	60.7	43.9	36.9	33.3	33.0	30.2	27.8	27.2	26.9
50°	1605.0	851.5	54.0	39.7	33.3	29.6	28.7	25.3	23.8	23.2	22.9
52.5°	1651.1	818.2	48.5	36.0	29.9	26.2	24.1	21.7	20.4	19.8	19.8
55°	1688.1	771.2	43.0	32.7	27.2	23.5	20.4	18.6	17.4	16.8	16.8
57.5°	1698.4	707.5	37.5	29.9	24.4	20.8	17.4	16.2	14.6	14.3	14.3
60°	1623.1	592.4	33.3	26.6	22.0	18.0	15.3	13.7	12.2	11.9	11.6
62.5°	1424.4	458.4	29.3	23.5	19.2	15.6	13.1	11.3	10.1	10.1	10.1
65°	1086.5	307.3	25.6	20.4	16.8	13.1	11.3	9.2	8.5	8.5	8.9
67.5°	650.4	167.2	22.0	17.4	14.3	11.0	9.5	7.9	7.6	7.9	7.9
69°	381.2	98.3	19.8	15.6	12.5	9.8	8.2	7.0	7.6	7.9	7.9
70°	235.3	66.2	18.3	14.0	11.3	8.9	7.6	6.7	7.3	7.6	7.6
72.5°	65.6	34.2	14.6	11.0	9.2	7.3	6.1	6.1	7.0	7.3	7.3
75°	42.7	25.3	11.3	8.2	7.0	5.8	5.2	5.8	6.7	7.0	7.0
77.5°	35.4	20.8	9.2	6.7	5.8	5.5	4.9	5.2	6.1	6.4	6.4
80°	32.4	14.6	7.3	6.1	5.2	4.9	4.6	4.3	5.5	5.8	5.8
82.5°	30.8	11.6	6.4	5.5	4.9	4.3	4.0	4.3	4.9	5.2	5.5
85°	19.2	7.6	5.8	5.2	4.3	4.0	4.0	4.0	4.6	4.9	4.9
87.5°	7.0	6.1	5.2	4.3	3.7	3.7	3.7	3.7	4.0	4.6	4.6
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)