

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: P300961

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300961  
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-SL4-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3760.4 lumens  
Efficiency: N/A  
Efficacy: 110.6 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 - G1

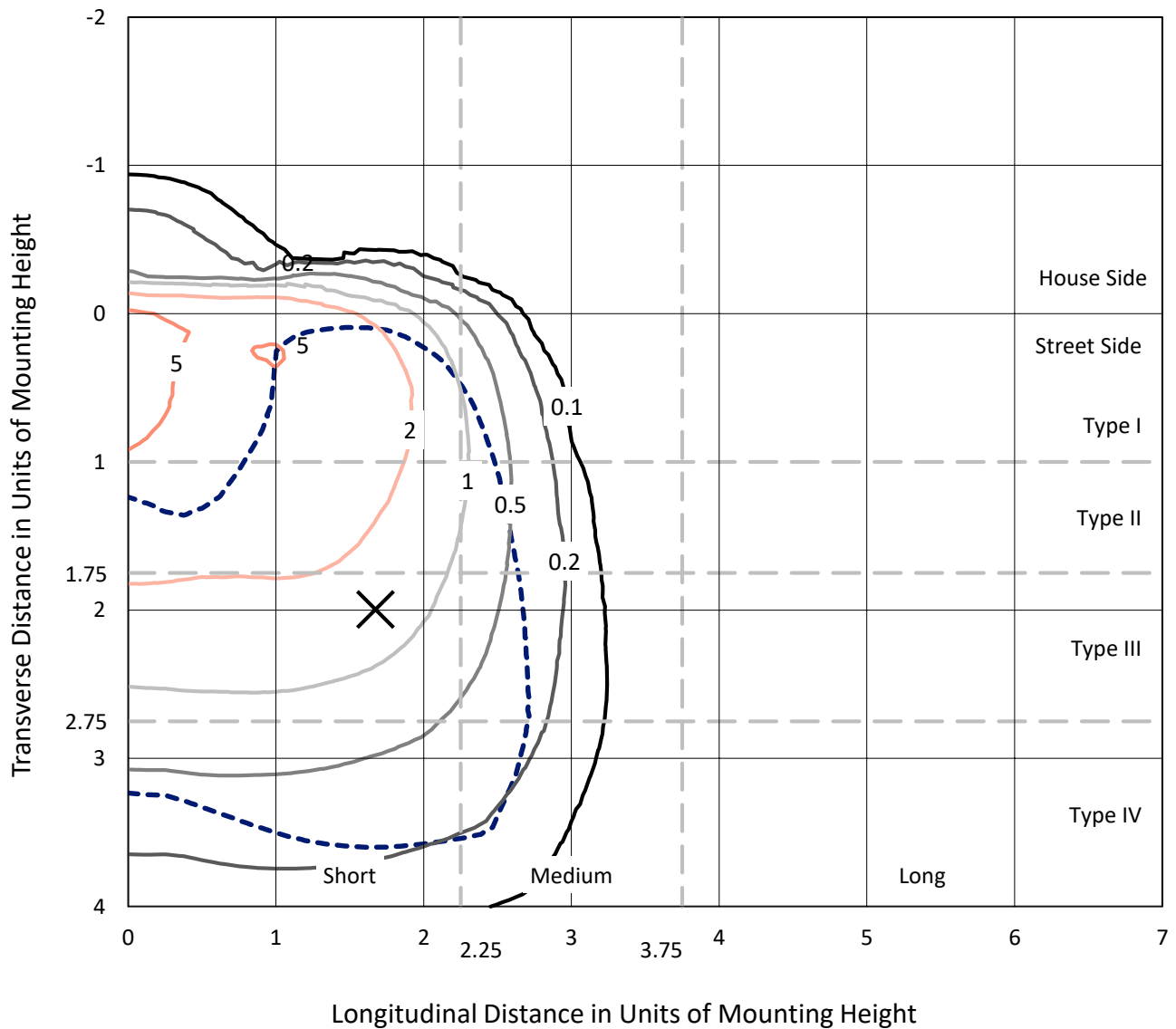
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P300961  
 CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-600

### Iso-Footcandle Lines of Horizontal Illumination

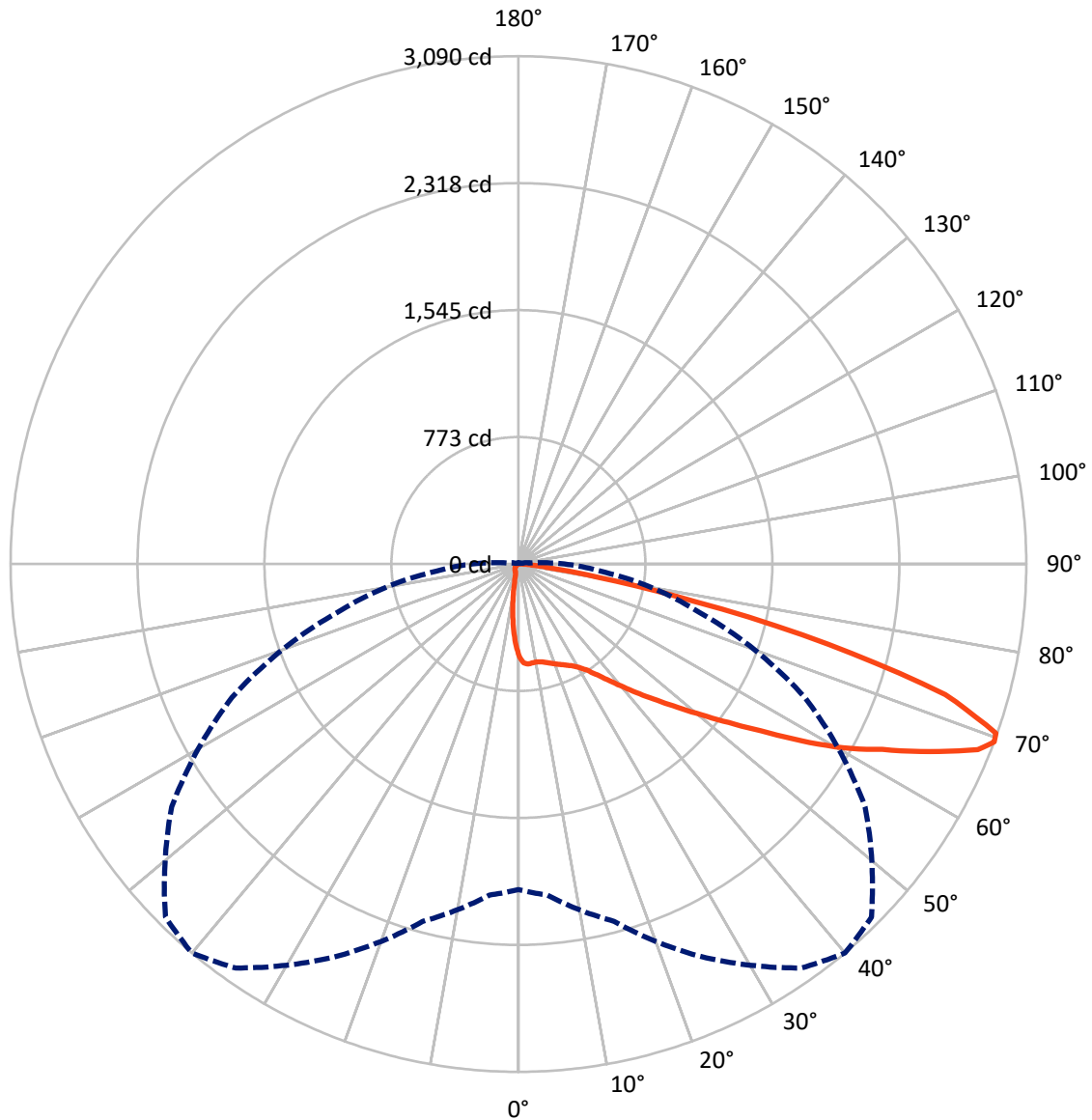
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300961  
CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300961

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-600

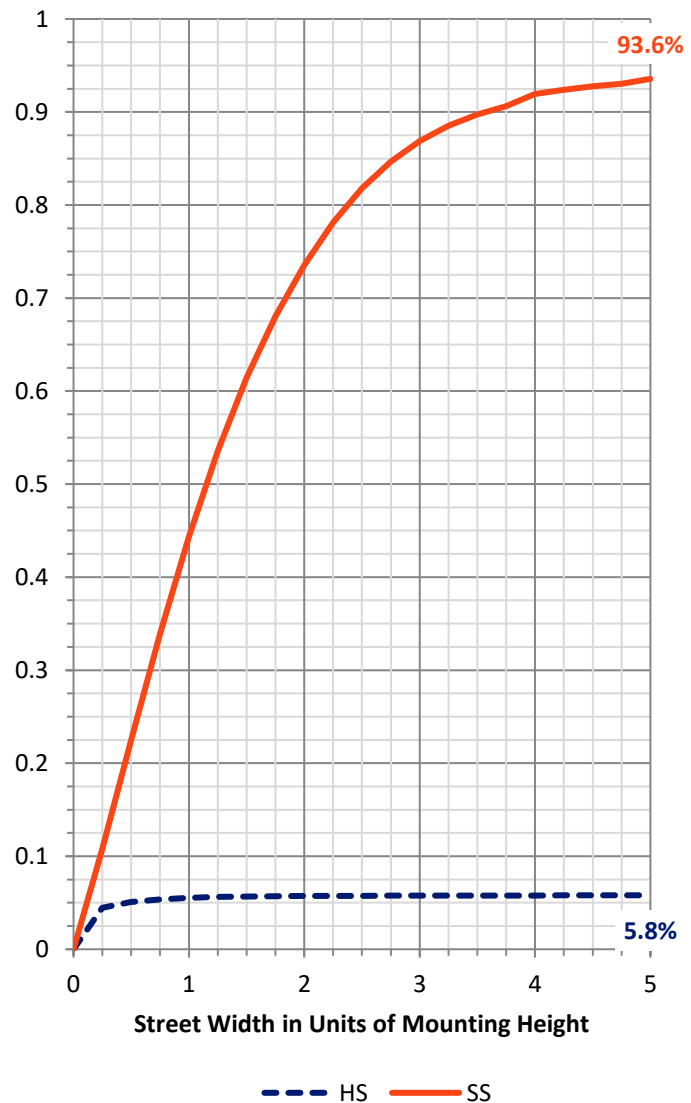
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	220.0	0.0	220.0
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	3540.4	0.0	3540.4
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	3760.4	0.0	3760.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	1.2
10°-20°	112.0	3.0
20°-30°	188.7	5.0
30°-40°	308.9	8.2
40°-50°	534.8	14.2
50°-60°	842.4	22.4
60°-70°	1100.1	29.3
70°-80°	566.6	15.1
80°-90°	61.3	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°	3760.4	100.0
0°-180°	3760.4	100.0



REPORT NUMBER: P300961

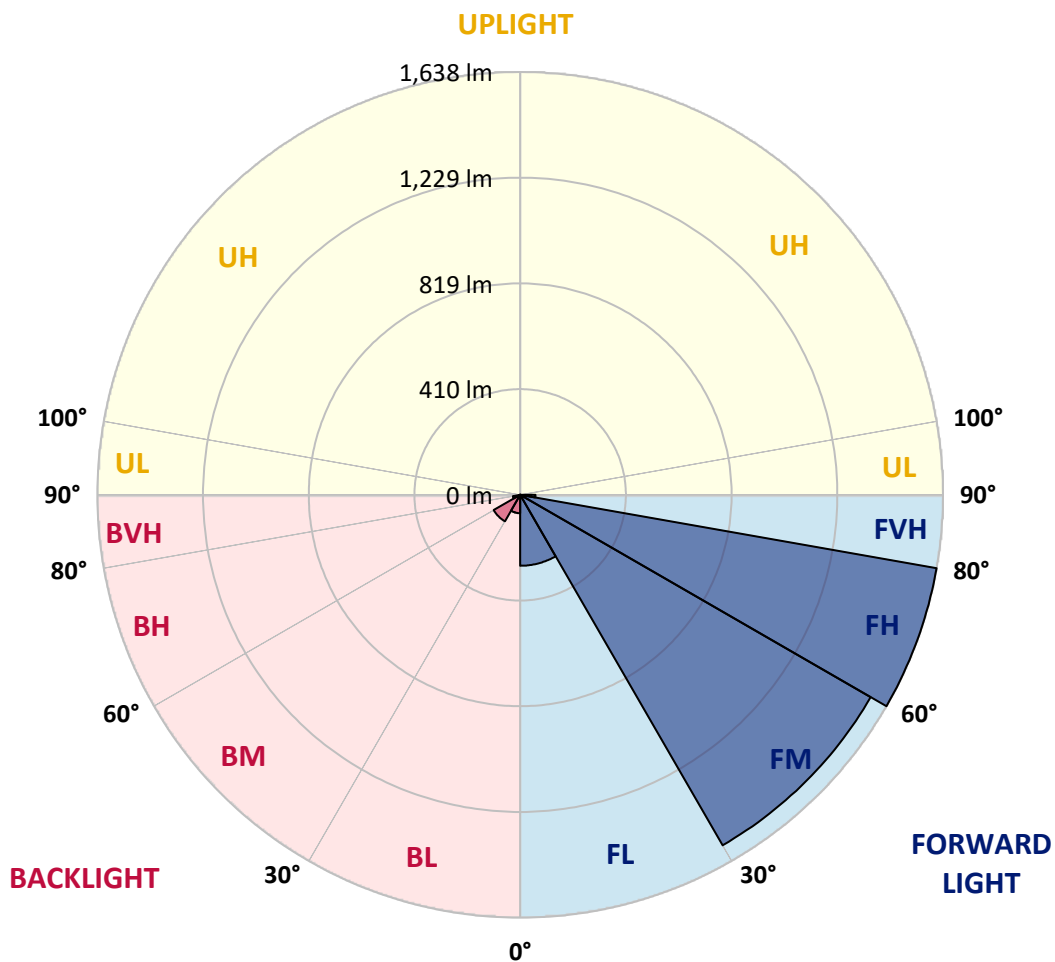
CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.0	7.3			
FM	(30°-60°)	1567.9	41.7			
FH	(60°-80°)	1638.2	43.6			G1/1800
FVH	(80°-90°)	59.4	1.6			G1/100
BL	(0°-30°)	71.3	1.9	B0/110		
BM	(30°-60°)	118.2	3.1	B0/220		
BH	(60°-80°)	28.6	0.8	B0/110		G0/110
BVH	(80°-90°)	1.9	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-G1**

Type IV Short





REPORT NUMBER: P300961

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	616.9	613.5	611.5	608.8	605.5	602.6	601.4	593.2	585.3	574.6	562.3
5°	628.3	627.2	623.6	620.0	616.0	611.5	609.1	599.2	588.0	572.3	550.9
7.5°	629.4	628.1	623.6	618.7	613.1	607.7	603.5	593.6	583.3	567.4	541.2
10°	627.6	626.1	622.7	617.3	610.4	605.2	601.0	591.6	582.9	568.5	539.4
12.5°	625.6	624.0	622.5	619.8	613.8	610.2	606.6	597.6	589.8	577.7	545.9
15°	627.6	626.7	628.5	627.4	624.0	620.9	617.3	609.3	602.1	592.0	557.8
17.5°	636.1	636.1	641.7	642.4	639.3	634.8	629.6	621.6	615.5	607.0	571.9
20°	656.1	655.4	662.5	663.9	656.3	649.3	641.7	631.9	627.2	621.8	585.8
22.5°	690.3	687.2	691.4	690.1	675.1	664.3	654.9	642.9	640.4	637.9	601.2
25°	734.8	733.1	736.0	722.8	696.3	681.8	670.6	657.0	657.0	659.4	618.7
27.5°	799.5	792.8	783.0	759.7	720.1	701.5	689.4	674.9	678.7	687.8	641.7
30°	865.8	858.4	835.8	800.0	748.9	729.5	715.4	700.2	709.1	725.9	672.6
32.5°	931.1	922.9	890.9	845.6	790.4	770.9	757.2	740.4	755.4	783.6	717.8
35°	994.5	987.1	950.2	896.9	845.4	829.3	816.8	802.2	821.5	860.9	781.6
37.5°	1065.7	1057.6	1012.6	954.9	912.3	900.7	891.5	877.0	910.6	968.3	870.5
40°	1153.2	1139.5	1078.9	1021.4	989.8	984.2	977.9	975.9	1028.1	1108.0	988.9
42.5°	1253.5	1231.1	1148.3	1091.4	1074.9	1078.9	1077.3	1086.3	1175.1	1281.7	1133.0
45°	1353.7	1324.9	1225.5	1166.2	1168.4	1182.5	1191.2	1227.1	1359.3	1480.9	1288.2
47.5°	1438.8	1410.4	1299.6	1247.0	1273.8	1301.6	1325.3	1393.1	1548.7	1677.0	1408.8
50°	1511.6	1484.7	1378.1	1335.8	1396.3	1441.0	1479.5	1580.0	1752.4	1826.3	1493.4
52.5°	1571.1	1553.2	1459.6	1437.7	1536.2	1601.8	1658.2	1778.6	1932.8	1947.6	1559.2
55°	1629.1	1616.3	1547.1	1558.8	1700.5	1789.8	1861.2	1989.2	2088.1	2048.8	1622.3
57.5°	1695.8	1684.1	1647.0	1712.3	1916.5	2028.8	2106.7	2175.9	2224.9	2152.2	1681.9
60°	1763.8	1757.1	1758.0	1882.9	2164.5	2272.4	2315.3	2333.2	2359.2	2249.5	1685.2
62.5°	1828.7	1841.5	1884.9	2072.7	2402.0	2484.8	2506.5	2524.2	2493.7	2265.0	1557.0
65°	1938.6	1959.4	2063.1	2326.8	2663.2	2751.8	2774.2	2713.5	2515.0	2065.3	1266.5
67.5°	1992.3	2030.4	2215.3	2563.6	2916.6	3015.0	3006.8	2725.9	2256.9	1574.9	812.7
69°	1981.2	2021.7	2250.4	2636.1	3000.7	3090.0	3037.4	2575.2	1922.7	1140.9	498.9
70°	1936.8	1977.8	2232.3	2633.4	3011.5	3082.2	2980.6	2389.2	1625.7	834.2	312.0
72.5°	1617.4	1652.8	1981.8	2380.3	2774.2	2716.7	2493.5	1655.3	792.1	227.2	70.3
75°	995.6	1015.3	1422.0	1793.1	2095.3	1947.6	1661.3	823.5	236.1	64.2	38.9
77.5°	526.0	535.0	778.5	1056.9	1328.2	1099.0	851.5	321.2	108.8	40.3	28.2
80°	310.9	317.6	419.2	483.3	574.8	480.1	340.5	197.2	77.9	25.3	25.1
82.5°	177.9	182.2	304.0	268.6	226.5	193.4	169.4	186.9	46.8	17.0	26.0
85°	65.4	66.3	171.0	204.4	134.7	80.1	84.2	154.9	12.5	10.7	20.4
87.5°	30.4	29.8	88.0	125.1	78.8	50.8	65.6	34.0	4.9	6.9	5.6
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: P300961

CATALOG NUMBER: GLNA-AF-01-LED-E1-SL4-7030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	555.1	546.8	531.8	516.4	500.7	488.6	476.8	467.4	464.2	458.4	458.9
5°	538.1	522.9	491.5	459.8	426.6	399.3	373.6	352.8	342.7	332.4	332.4
7.5°	523.3	501.2	452.1	400.4	346.9	302.0	261.4	231.0	214.2	200.8	200.6
10°	517.7	487.7	419.2	345.2	270.6	209.3	161.2	130.3	114.4	104.1	103.6
12.5°	520.2	483.0	393.9	294.1	200.6	134.5	93.3	73.4	66.7	63.6	63.6
15°	527.4	481.7	368.7	244.2	141.7	84.2	62.0	56.6	56.2	56.2	56.2
17.5°	536.1	482.1	342.7	195.6	96.5	60.2	53.5	52.8	53.3	53.3	53.3
20°	545.0	482.4	314.7	150.6	68.0	52.4	50.4	50.1	50.6	50.6	50.8
22.5°	556.0	483.5	286.7	112.6	56.2	49.5	47.9	47.9	48.1	48.1	47.9
25°	568.5	485.7	257.6	83.5	51.3	47.5	46.1	45.9	46.1	45.9	45.7
27.5°	584.2	488.9	225.2	65.4	49.0	45.4	44.3	44.3	44.1	43.9	43.6
30°	603.9	492.4	188.7	55.5	46.8	43.6	42.5	42.3	42.1	41.6	41.6
32.5°	633.9	500.3	152.7	50.4	44.3	41.2	40.3	40.3	39.8	39.4	39.2
35°	680.0	515.7	120.4	47.2	41.6	38.5	37.4	37.4	36.9	36.7	36.5
37.5°	743.8	539.2	93.6	44.3	38.9	35.6	34.5	34.2	33.8	33.4	33.1
40°	828.6	568.3	73.6	41.6	36.3	32.7	31.8	31.3	30.4	29.8	29.8
42.5°	935.2	601.4	59.8	38.7	33.1	30.0	29.3	28.7	27.1	26.4	26.2
45°	1046.6	631.2	50.6	35.4	30.0	27.3	26.9	25.7	23.7	23.1	23.1
47.5°	1127.0	638.2	44.5	32.2	27.1	24.4	24.2	22.2	20.4	19.9	19.7
50°	1177.1	624.5	39.6	29.1	24.4	21.7	21.0	18.6	17.5	17.0	16.8
52.5°	1210.9	600.1	35.6	26.4	21.9	19.2	17.7	15.9	15.0	14.5	14.5
55°	1238.0	565.6	31.6	24.0	19.9	17.2	15.0	13.7	12.8	12.3	12.3
57.5°	1245.6	518.8	27.5	21.9	17.9	15.2	12.8	11.9	10.7	10.5	10.5
60°	1190.3	434.5	24.4	19.5	16.1	13.2	11.2	10.1	9.0	8.7	8.5
62.5°	1044.6	336.2	21.5	17.2	14.1	11.4	9.6	8.3	7.4	7.4	7.4
65°	796.8	225.4	18.8	15.0	12.3	9.6	8.3	6.7	6.3	6.3	6.5
67.5°	477.0	122.7	16.1	12.8	10.5	8.1	6.9	5.8	5.6	5.8	5.8
69°	279.6	72.1	14.5	11.4	9.2	7.2	6.0	5.1	5.6	5.8	5.8
70°	172.6	48.6	13.4	10.3	8.3	6.5	5.6	4.9	5.4	5.6	5.6
72.5°	48.1	25.1	10.7	8.1	6.7	5.4	4.5	4.5	5.1	5.4	5.4
75°	31.3	18.6	8.3	6.0	5.1	4.3	3.8	4.3	4.9	5.1	5.1
77.5°	26.0	15.2	6.7	4.9	4.3	4.0	3.6	3.8	4.5	4.7	4.7
80°	23.7	10.7	5.4	4.5	3.8	3.6	3.4	3.1	4.0	4.3	4.3
82.5°	22.6	8.5	4.7	4.0	3.6	3.1	2.9	3.1	3.6	3.8	4.0
85°	14.1	5.6	4.3	3.8	3.1	2.9	2.9	2.9	3.4	3.6	3.6
87.5°	5.1	4.5	3.8	3.1	2.7	2.7	2.7	2.7	2.9	3.4	3.4
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)