

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: P300963

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300963
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-SL4-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K 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: 3887.6 lumens
Efficiency: N/A
Efficacy: 114.3 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

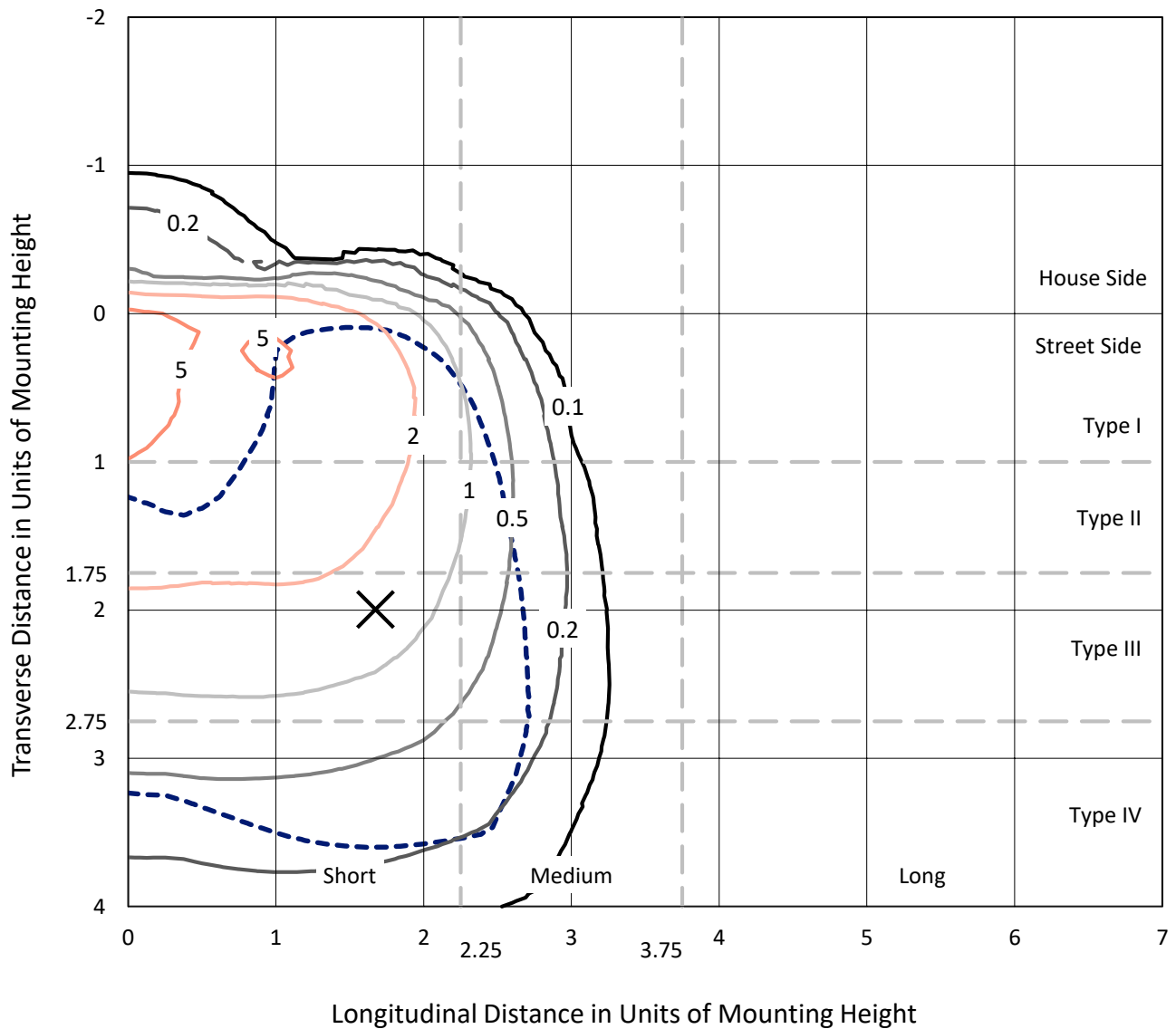
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

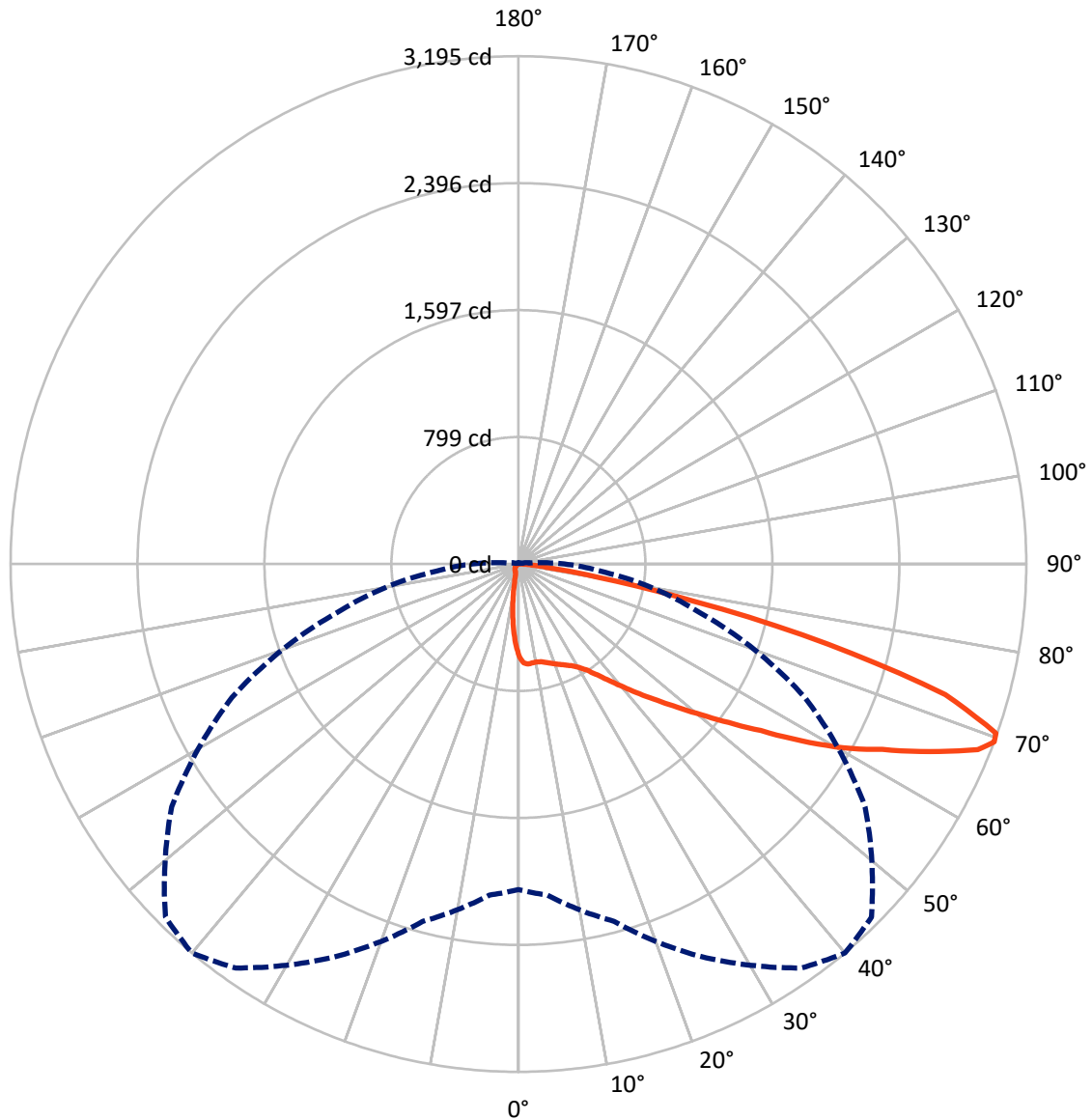
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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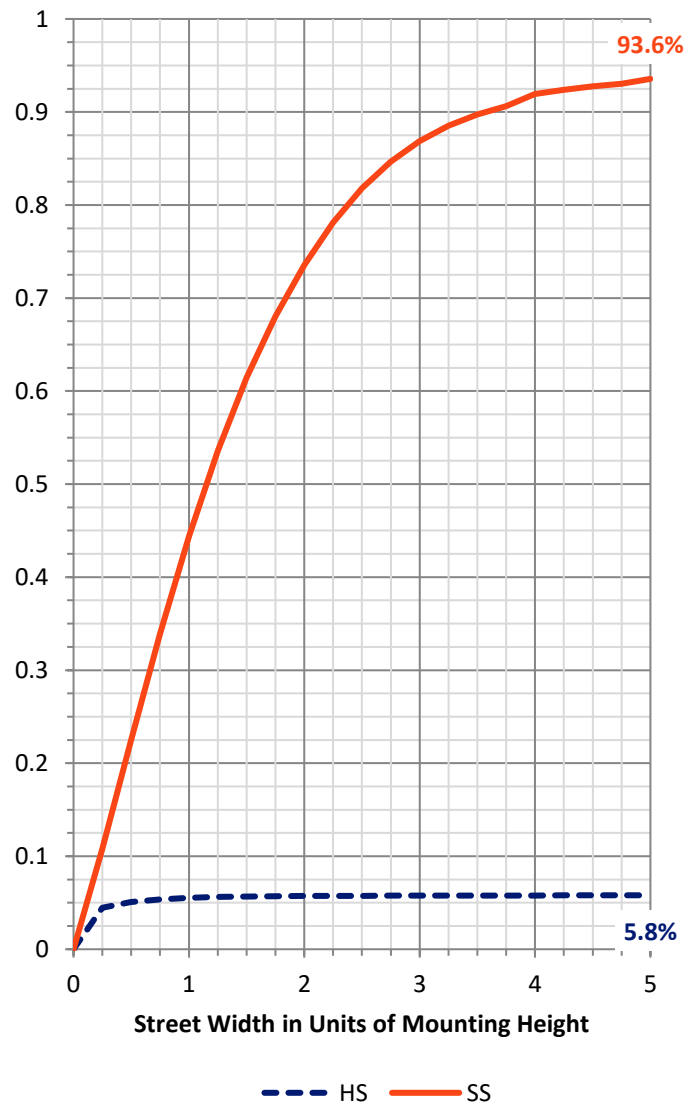
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	227.4	0.0	227.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3660.2	0.0	3660.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	3887.6	0.0	3887.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.2
10°-20°	115.8	3.0
20°-30°	195.1	5.0
30°-40°	319.3	8.2
40°-50°	552.9	14.2
50°-60°	870.9	22.4
60°-70°	1137.4	29.3
70°-80°	585.8	15.1
80°-90°	63.4	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°	3887.6	100.0
0°-180°	3887.6	100.0

Coefficient of Utilization



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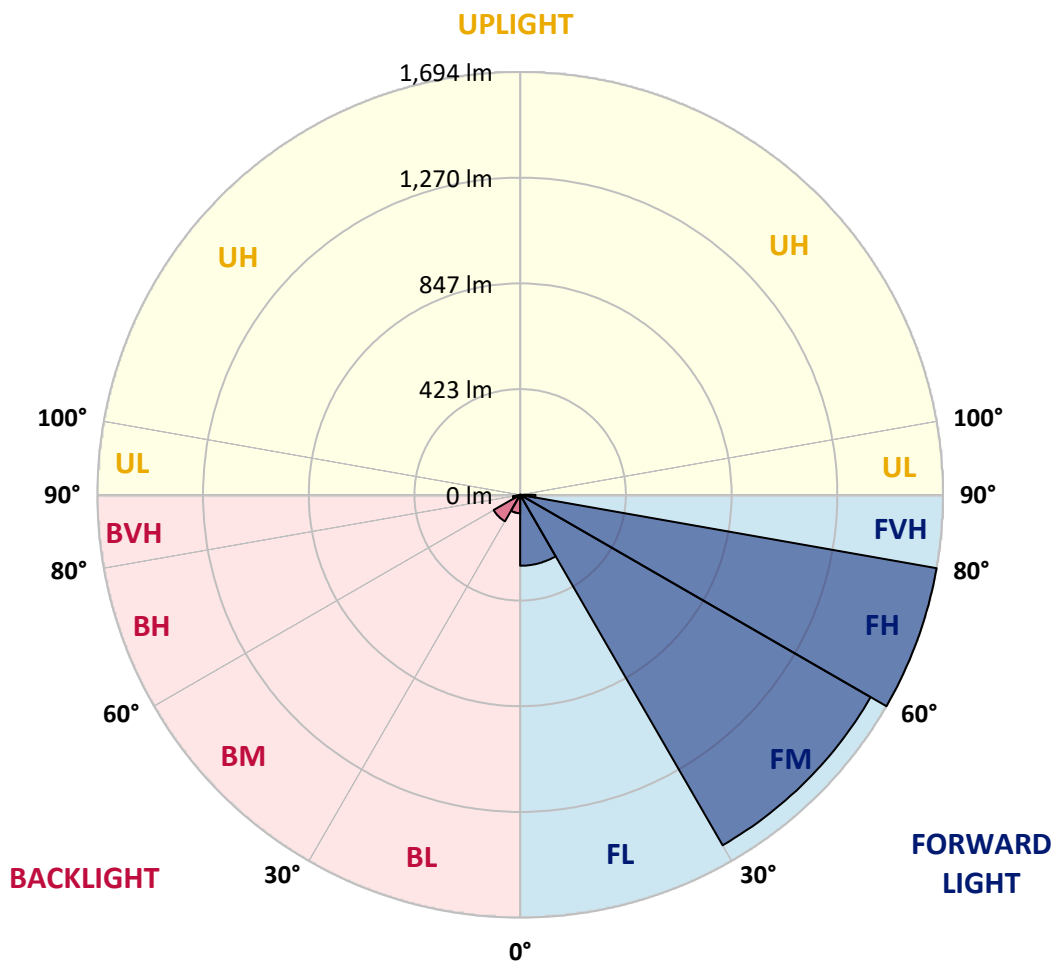
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.3	7.3			
FM	(30°-60°)	1620.9	41.7			
FH	(60°-80°)	1693.6	43.6			G1/1800
FVH	(80°-90°)	61.4	1.6			G1/100
BL	(0°-30°)	73.7	1.9	B0/110		
BM	(30°-60°)	122.2	3.1	B0/220		
BH	(60°-80°)	29.5	0.8	B0/110		G0/110
BVH	(80°-90°)	2.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	637.8	634.3	632.2	629.4	626.0	622.9	621.8	613.2	605.1	594.0	581.3
5°	649.6	648.4	644.7	641.0	636.8	632.2	629.7	619.5	607.9	591.7	569.5
7.5°	650.7	649.3	644.7	639.6	633.8	628.3	623.9	613.7	603.0	586.6	559.5
10°	648.9	647.2	643.8	638.2	631.0	625.7	621.3	611.6	602.6	587.8	557.7
12.5°	646.8	645.2	643.5	640.8	634.5	630.8	627.1	617.9	609.8	597.3	564.4
15°	648.9	647.9	649.8	648.6	645.2	641.9	638.2	629.9	622.5	612.1	576.7
17.5°	657.7	657.7	663.4	664.1	660.9	656.3	650.9	642.6	636.4	627.6	591.2
20°	678.3	677.6	685.0	686.3	678.5	671.3	663.4	653.3	648.4	642.8	605.6
22.5°	713.7	710.4	714.8	713.4	697.9	686.8	677.1	664.6	662.1	659.5	621.6
25°	759.7	757.9	760.9	747.2	719.9	704.9	693.3	679.2	679.2	681.7	639.6
27.5°	826.6	819.6	809.5	785.4	744.4	725.2	712.7	697.7	701.6	711.1	663.4
30°	895.1	887.4	864.1	827.0	774.3	754.2	739.6	723.8	733.1	750.4	695.4
32.5°	962.6	954.1	921.0	874.3	817.1	797.0	782.8	765.5	781.0	810.2	742.1
35°	1028.1	1020.5	982.3	927.2	874.0	857.4	844.4	829.4	849.3	890.0	808.1
37.5°	1101.7	1093.4	1046.9	987.2	943.2	931.2	921.7	906.6	941.4	1001.1	899.9
40°	1192.2	1178.1	1115.4	1055.9	1023.3	1017.5	1011.0	1008.9	1062.8	1145.5	1022.4
42.5°	1295.9	1272.7	1187.1	1128.3	1111.2	1115.4	1113.8	1123.0	1214.9	1325.0	1171.4
45°	1399.5	1369.7	1266.9	1205.6	1207.9	1222.5	1231.5	1268.6	1405.3	1531.0	1331.7
47.5°	1487.5	1458.1	1343.5	1289.2	1316.9	1345.6	1370.2	1440.3	1601.1	1733.7	1456.5
50°	1562.7	1534.9	1424.8	1381.0	1443.5	1489.8	1529.6	1633.5	1811.7	1888.0	1543.9
52.5°	1624.2	1605.7	1509.0	1486.3	1588.1	1655.9	1714.3	1838.8	1998.2	2013.5	1612.0
55°	1684.2	1671.0	1599.5	1611.5	1758.0	1850.3	1924.1	2056.5	2158.8	2118.1	1677.2
57.5°	1753.1	1741.1	1702.7	1770.3	1981.3	2097.5	2178.0	2249.5	2300.2	2225.0	1738.8
60°	1823.5	1816.5	1817.5	1946.6	2237.7	2349.2	2393.7	2412.2	2439.0	2325.6	1742.3
62.5°	1890.6	1903.8	1948.7	2142.8	2483.2	2568.8	2591.3	2609.6	2578.1	2341.6	1609.7
65°	2004.2	2025.7	2132.9	2405.5	2753.3	2844.9	2868.0	2805.3	2600.1	2135.2	1309.3
67.5°	2059.7	2099.1	2290.2	2650.3	3015.2	3117.0	3108.5	2818.1	2333.3	1628.2	840.2
69°	2048.2	2090.1	2326.6	2725.3	3102.2	3194.6	3140.2	2662.3	1987.8	1179.5	515.8
70°	2002.4	2044.7	2307.8	2722.5	3113.3	3186.5	3081.4	2470.0	1680.7	862.4	322.6
72.5°	1672.1	1708.7	2048.9	2460.8	2868.0	2808.6	2577.9	1711.2	818.9	234.9	72.7
75°	1029.3	1049.7	1470.1	1853.8	2166.2	2013.5	1717.5	851.3	244.1	66.4	40.3
77.5°	543.8	553.1	804.8	1092.7	1373.2	1136.2	880.3	332.1	112.5	41.7	29.2
80°	321.4	328.4	433.4	499.6	594.3	496.4	352.0	203.9	80.5	26.1	25.9
82.5°	184.0	188.4	314.2	277.7	234.2	199.9	175.2	193.2	48.4	17.6	26.8
85°	67.6	68.5	176.8	211.3	139.3	82.8	87.0	160.1	13.0	11.1	21.1
87.5°	31.5	30.8	90.9	129.4	81.5	52.5	67.8	35.2	5.1	7.2	5.8
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°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	573.9	565.3	549.8	533.9	517.7	505.2	492.9	483.2	479.9	473.9	474.4
5°	556.3	540.6	508.2	475.3	441.1	412.8	386.2	364.7	354.3	343.6	343.6
7.5°	541.0	518.1	467.4	414.0	358.7	312.2	270.3	238.8	221.5	207.6	207.3
10°	535.2	504.2	433.4	356.8	279.8	216.4	166.6	134.7	118.2	107.6	107.1
12.5°	537.8	499.4	407.3	304.1	207.3	139.1	96.5	75.9	69.0	65.7	65.7
15°	545.2	498.0	381.1	252.5	146.5	87.0	64.1	58.5	58.1	58.1	58.1
17.5°	554.2	498.4	354.3	202.2	99.7	62.2	55.3	54.6	55.1	55.1	55.1
20°	563.5	498.7	325.4	155.7	70.3	54.1	52.1	51.8	52.3	52.3	52.5
22.5°	574.8	499.8	296.4	116.4	58.1	51.1	49.5	49.5	49.8	49.8	49.5
25°	587.8	502.2	266.3	86.3	53.0	49.1	47.7	47.4	47.7	47.4	47.2
27.5°	604.0	505.4	232.8	67.6	50.7	47.0	45.8	45.8	45.6	45.4	45.1
30°	624.3	509.1	195.1	57.4	48.4	45.1	44.0	43.7	43.5	43.0	43.0
32.5°	655.3	517.2	157.8	52.1	45.8	42.6	41.7	41.7	41.2	40.7	40.5
35°	703.0	533.2	124.5	48.8	43.0	39.8	38.6	38.6	38.2	38.0	37.7
37.5°	769.0	557.5	96.7	45.8	40.3	36.8	35.6	35.4	34.9	34.5	34.2
40°	856.7	587.5	76.1	43.0	37.5	33.8	32.9	32.4	31.5	30.8	30.8
42.5°	966.8	621.8	61.8	40.0	34.2	31.0	30.3	29.6	28.0	27.3	27.1
45°	1082.1	652.6	52.3	36.6	31.0	28.2	27.8	26.6	24.5	23.8	23.8
47.5°	1165.1	659.7	46.0	33.3	28.0	25.2	25.0	22.9	21.1	20.6	20.4
50°	1217.0	645.6	41.0	30.1	25.2	22.4	21.8	19.2	18.0	17.6	17.4
52.5°	1251.9	620.4	36.8	27.3	22.7	19.9	18.3	16.4	15.5	15.0	15.0
55°	1279.9	584.8	32.6	24.8	20.6	17.8	15.5	14.1	13.2	12.7	12.7
57.5°	1287.8	536.4	28.5	22.7	18.5	15.7	13.2	12.3	11.1	10.9	10.9
60°	1230.6	449.2	25.2	20.1	16.7	13.7	11.6	10.4	9.3	9.0	8.8
62.5°	1080.0	347.6	22.2	17.8	14.6	11.8	10.0	8.6	7.6	7.6	7.6
65°	823.8	233.0	19.4	15.5	12.7	10.0	8.6	6.9	6.5	6.5	6.7
67.5°	493.1	126.8	16.7	13.2	10.9	8.3	7.2	6.0	5.8	6.0	6.0
69°	289.0	74.5	15.0	11.8	9.5	7.4	6.2	5.3	5.8	6.0	6.0
70°	178.4	50.2	13.9	10.6	8.6	6.7	5.8	5.1	5.6	5.8	5.8
72.5°	49.8	25.9	11.1	8.3	6.9	5.6	4.6	4.6	5.3	5.6	5.6
75°	32.4	19.2	8.6	6.2	5.3	4.4	3.9	4.4	5.1	5.3	5.3
77.5°	26.8	15.7	6.9	5.1	4.4	4.2	3.7	3.9	4.6	4.9	4.9
80°	24.5	11.1	5.6	4.6	3.9	3.7	3.5	3.2	4.2	4.4	4.4
82.5°	23.4	8.8	4.9	4.2	3.7	3.2	3.0	3.2	3.7	3.9	4.2
85°	14.6	5.8	4.4	3.9	3.2	3.0	3.0	3.0	3.5	3.7	3.7
87.5°	5.3	4.6	3.9	3.2	2.8	2.8	2.8	2.8	3.0	3.5	3.5
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)