

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: P299695

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2683.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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

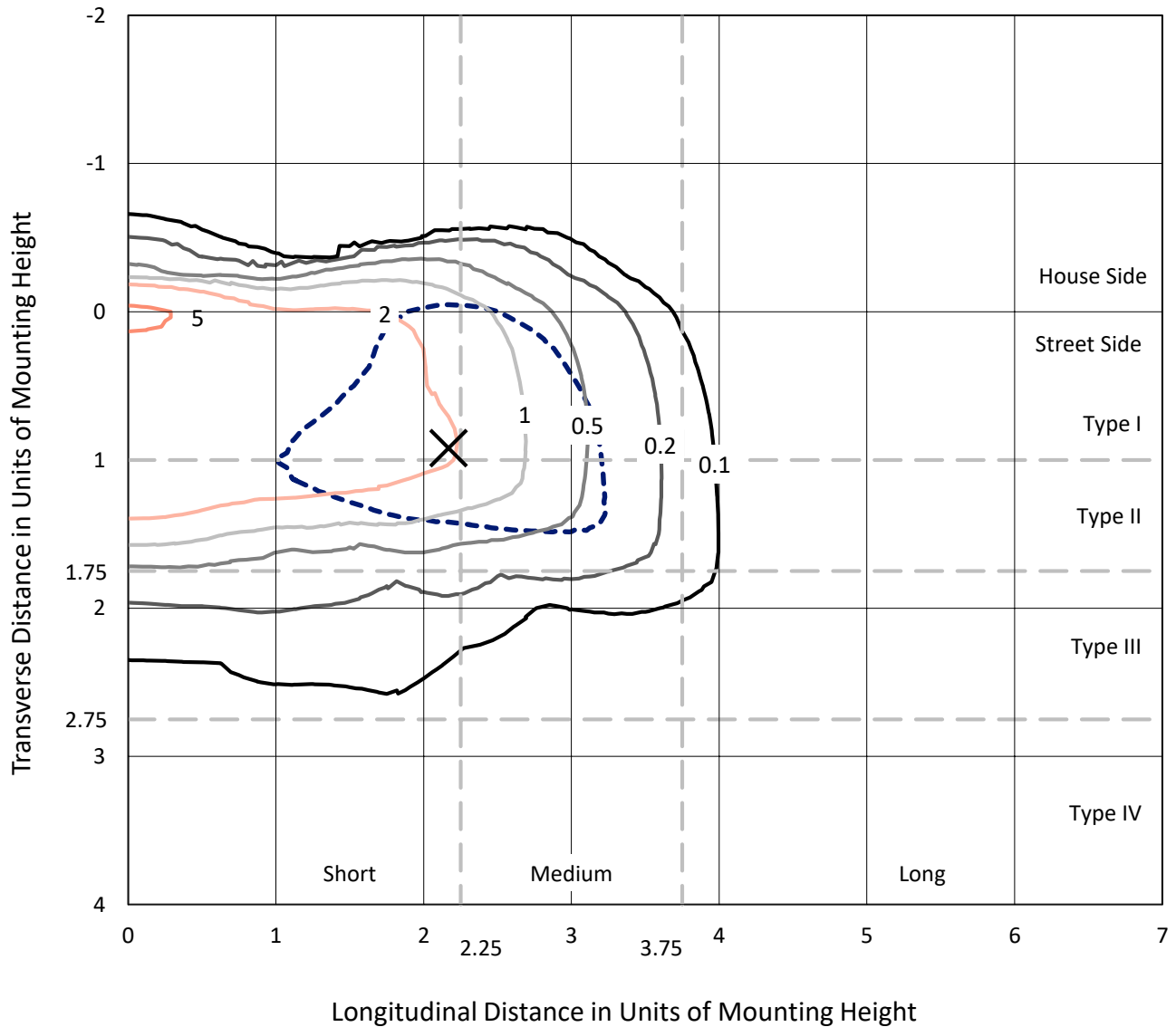


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

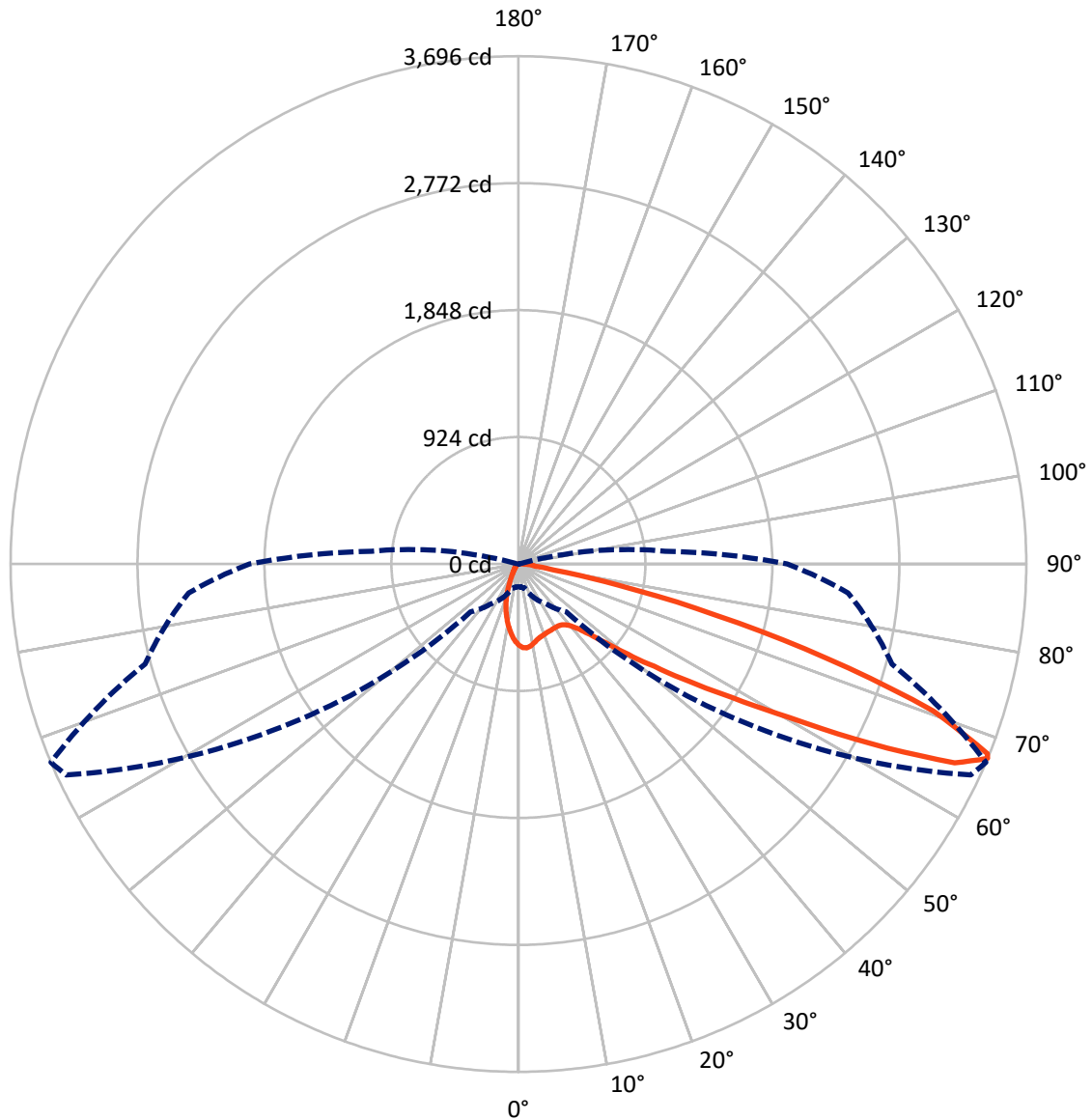


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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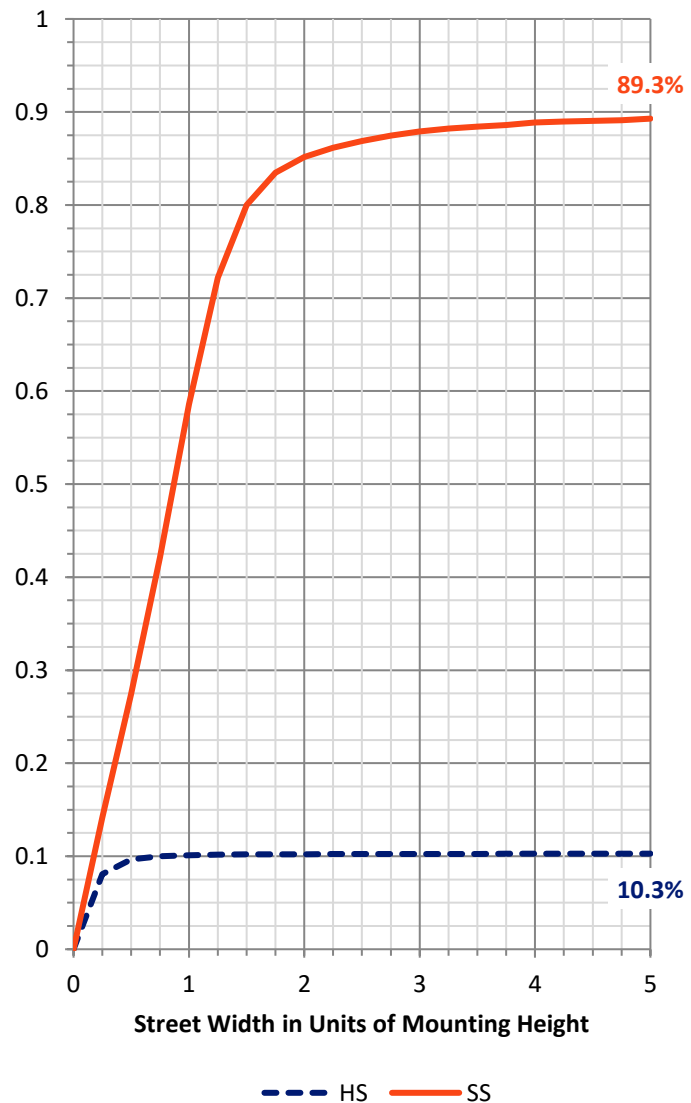
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	278.7	0.0	278.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2405.2	0.0	2405.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	2683.9	0.0	2683.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.8
10°-20°	102.5	3.8
20°-30°	149.0	5.6
30°-40°	232.5	8.7
40°-50°	411.9	15.3
50°-60°	651.7	24.3
60°-70°	746.5	27.8
70°-80°	309.6	11.5
80°-90°	32.0	1.2
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°	2683.9	100.0
0°-180°	2683.9	100.0



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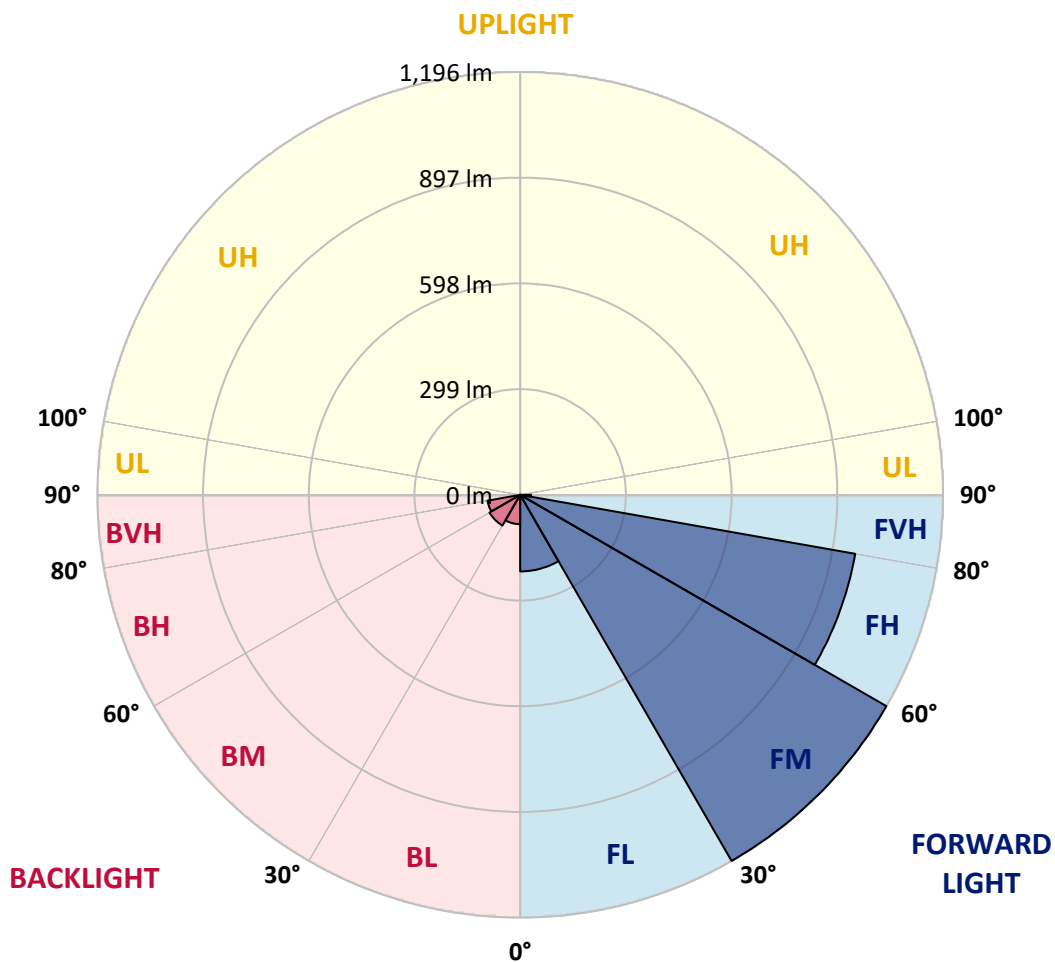
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.5	8.1			
FM (30°-60°)	1195.9	44.6			
FH (60°-80°)	962.2	35.9			G1/1800
FVH (80°-90°)	30.5	1.1			G1/100
BL (0°-30°)	83.2	3.1	B0/110		
BM (30°-60°)	100.2	3.7	B0/220		
BH (60°-80°)	93.9	3.5	B0/110		G0/110
BVH (80°-90°)	1.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	611.9	613.2	613.0	614.0	616.2	616.3	614.1	609.9	609.0	603.5	593.9
5°	564.3	567.9	570.1	579.1	589.1	601.1	610.2	613.5	613.0	609.1	594.7
7.5°	510.0	513.6	516.1	526.6	539.9	560.6	584.2	603.6	605.4	609.6	594.1
10°	473.9	474.5	477.9	487.9	501.9	523.0	551.2	585.2	590.3	605.8	592.5
12.5°	444.1	444.6	449.1	459.9	474.8	496.1	525.7	565.0	572.9	601.1	592.2
15°	423.0	424.7	428.8	440.0	455.9	477.0	507.4	550.1	559.6	599.4	595.0
17.5°	415.9	417.8	419.1	427.2	441.6	462.3	493.4	540.4	551.2	600.3	600.5
20°	423.3	424.7	421.9	423.9	432.8	451.3	481.7	532.1	544.9	601.4	607.5
22.5°	450.7	451.3	443.6	434.7	433.2	443.3	472.4	525.5	539.3	604.4	615.8
25°	497.7	496.6	484.0	464.8	446.6	441.9	467.0	521.4	536.5	607.5	624.5
27.5°	554.3	555.9	538.7	510.6	476.0	451.3	466.2	519.7	535.2	609.7	632.0
30°	623.2	625.4	605.7	570.4	520.8	474.5	473.4	519.4	534.4	608.3	632.6
32.5°	693.5	696.1	680.7	644.3	580.6	513.3	489.7	522.9	536.0	603.5	629.0
35°	767.1	770.8	760.5	729.3	661.7	569.3	518.3	533.3	543.4	603.0	625.4
37.5°	868.7	872.1	852.7	819.7	759.9	644.5	564.3	553.1	560.7	610.5	626.3
40°	1020.4	1019.9	969.8	919.2	867.7	740.0	629.0	588.8	592.7	633.2	637.9
42.5°	1185.7	1184.9	1110.8	1034.0	987.5	857.5	714.0	650.4	647.8	675.0	668.0
45°	1313.1	1312.9	1252.5	1165.9	1131.7	992.5	823.9	736.2	732.2	743.0	723.4
47.5°	1367.4	1368.3	1338.0	1277.1	1291.5	1175.0	962.4	860.5	854.4	850.0	820.3
50°	1325.1	1327.0	1329.5	1317.6	1408.7	1420.3	1148.2	1035.7	1032.7	1013.2	966.7
52.5°	1187.1	1196.6	1226.0	1263.8	1449.4	1655.8	1439.6	1253.3	1237.3	1216.5	1165.3
55°	954.4	964.9	1020.8	1112.4	1388.9	1810.4	1847.8	1533.8	1507.2	1445.1	1371.2
57.5°	631.7	647.9	729.0	845.5	1212.9	1835.3	2255.2	1923.1	1830.5	1660.3	1577.0
60°	348.0	363.7	451.6	557.1	876.0	1712.3	2529.1	2430.0	2266.3	1900.9	1827.0
62.5°	214.3	222.8	287.7	385.9	525.4	1351.4	2585.8	3067.0	2877.4	2210.7	2129.0
65°	170.6	174.2	206.0	315.4	376.6	803.9	2402.8	3552.6	3489.4	2585.8	2399.3
67°	165.6	167.0	182.1	270.8	355.0	492.8	2013.0	3631.7	3695.8	2812.8	2407.8
67.5°	166.7	168.3	182.5	258.5	354.4	452.9	1878.7	3600.5	3681.6	2830.8	2370.4
70°	160.8	165.6	209.0	258.3	337.0	376.3	1125.1	3119.6	3204.0	2630.2	2011.3
72.5°	57.0	57.3	90.3	209.0	366.5	380.4	565.0	2286.9	2349.4	2012.1	1450.1
75°	33.8	28.8	30.1	59.5	350.2	369.4	325.9	1461.3	1484.7	1152.9	734.3
77.5°	23.3	20.4	21.0	26.3	133.4	364.3	258.9	762.1	737.2	404.4	156.4
80°	13.3	11.7	12.5	23.0	48.5	339.9	244.2	309.0	263.5	68.6	43.2
82.5°	7.0	5.9	7.2	18.9	33.8	211.8	244.7	149.3	118.3	23.2	29.4
85°	2.5	2.0	3.4	13.0	22.5	65.0	226.8	125.5	98.6	11.3	22.4
87.5°	0.5	0.5	1.4	5.3	9.1	19.9	134.2	74.5	49.9	6.7	15.3
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°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	590.0	583.3	574.2	563.1	549.9	538.4	529.7	520.8	518.9	515.8	515.3
5°	586.1	574.5	552.0	526.1	498.6	473.7	453.5	435.5	427.5	420.6	419.8
7.5°	580.3	562.9	524.6	482.9	439.9	400.8	367.6	344.1	322.5	312.1	310.6
10°	573.6	548.7	493.7	436.0	376.5	321.2	271.9	230.6	205.5	190.7	188.8
12.5°	567.3	534.8	462.3	387.3	308.2	234.3	170.9	131.5	105.2	94.6	93.3
15°	564.3	523.5	432.8	337.5	236.9	149.2	93.5	72.3	63.7	61.2	61.1
17.5°	564.0	513.9	404.0	286.0	165.9	86.7	60.9	55.6	53.9	53.2	53.2
20°	563.9	504.9	375.2	232.6	105.4	57.8	50.7	49.5	48.2	47.4	47.4
22.5°	565.6	496.7	345.2	178.1	66.4	46.8	44.6	43.4	41.8	40.7	40.5
25°	567.3	490.5	314.5	126.8	48.1	40.7	38.5	36.8	34.6	33.2	33.0
27.5°	567.6	482.6	281.6	84.8	40.2	35.5	32.7	30.1	27.6	26.1	26.0
30°	562.9	469.5	245.1	57.3	35.5	30.8	27.1	24.3	21.9	20.8	20.8
32.5°	553.7	453.2	205.1	43.2	31.6	26.5	22.4	19.7	18.2	17.7	17.5
35°	545.4	435.7	163.9	36.6	28.3	22.4	18.3	16.6	15.7	15.5	15.3
37.5°	540.5	421.6	125.2	33.2	25.2	18.8	15.5	14.2	13.8	13.5	13.6
40°	544.3	409.8	92.5	30.4	22.1	15.7	13.1	12.5	12.1	11.9	11.9
42.5°	560.7	407.8	68.7	27.9	19.1	13.0	11.4	11.0	10.6	10.5	10.6
45°	603.9	420.3	53.4	25.5	16.1	11.0	9.7	9.5	9.4	9.4	9.4
47.5°	668.9	446.1	44.5	22.9	13.5	9.4	8.5	8.3	8.1	8.3	8.3
50°	779.0	493.4	39.8	20.2	11.1	8.0	7.2	7.2	7.2	7.2	7.4
52.5°	946.3	586.4	36.6	17.5	9.1	6.7	6.1	6.1	6.3	6.3	6.4
55°	1132.7	709.8	33.8	14.9	7.7	5.6	5.0	5.2	5.3	5.5	5.5
57.5°	1335.0	846.4	31.5	12.2	6.6	4.5	4.2	4.4	4.5	4.9	4.9
60°	1579.1	994.4	28.0	9.5	5.5	3.6	3.3	3.6	4.1	4.4	4.5
62.5°	1847.1	1137.4	23.6	7.5	4.5	2.8	2.7	3.3	3.9	4.2	4.4
65°	2030.2	1182.4	18.2	6.1	3.4	2.0	2.2	3.0	3.8	4.2	4.2
67°	1956.0	1072.0	14.9	5.2	2.8	1.6	2.0	3.0	3.8	4.1	4.2
67.5°	1904.5	1028.8	14.2	5.0	2.7	1.6	2.0	3.0	3.8	4.2	4.2
70°	1549.6	772.9	11.9	3.8	2.2	1.4	1.7	2.8	3.6	4.1	4.1
72.5°	1076.7	476.5	10.6	2.7	1.9	1.3	1.6	2.7	3.4	3.9	4.1
75°	511.9	172.5	9.1	2.0	1.7	1.1	1.4	2.7	3.4	3.9	3.9
77.5°	104.4	40.1	7.4	1.7	1.4	1.1	1.3	2.5	3.3	3.8	3.8
80°	34.3	15.5	5.5	1.6	1.4	1.1	1.3	2.3	3.3	3.6	3.8
82.5°	24.7	7.8	3.6	1.6	1.4	1.1	1.1	2.3	3.1	3.6	3.6
85°	18.9	5.5	2.3	1.6	1.4	1.1	1.1	2.2	3.0	3.4	3.4
87.5°	12.5	2.2	1.9	1.6	1.4	1.1	1.1	2.2	2.8	3.3	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)