

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: P199947

Luminaire Tested: **GWC-AF-01-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199947  
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: GWC-AF-01-LED-E1-SL2-7030-600-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3298.5 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - 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

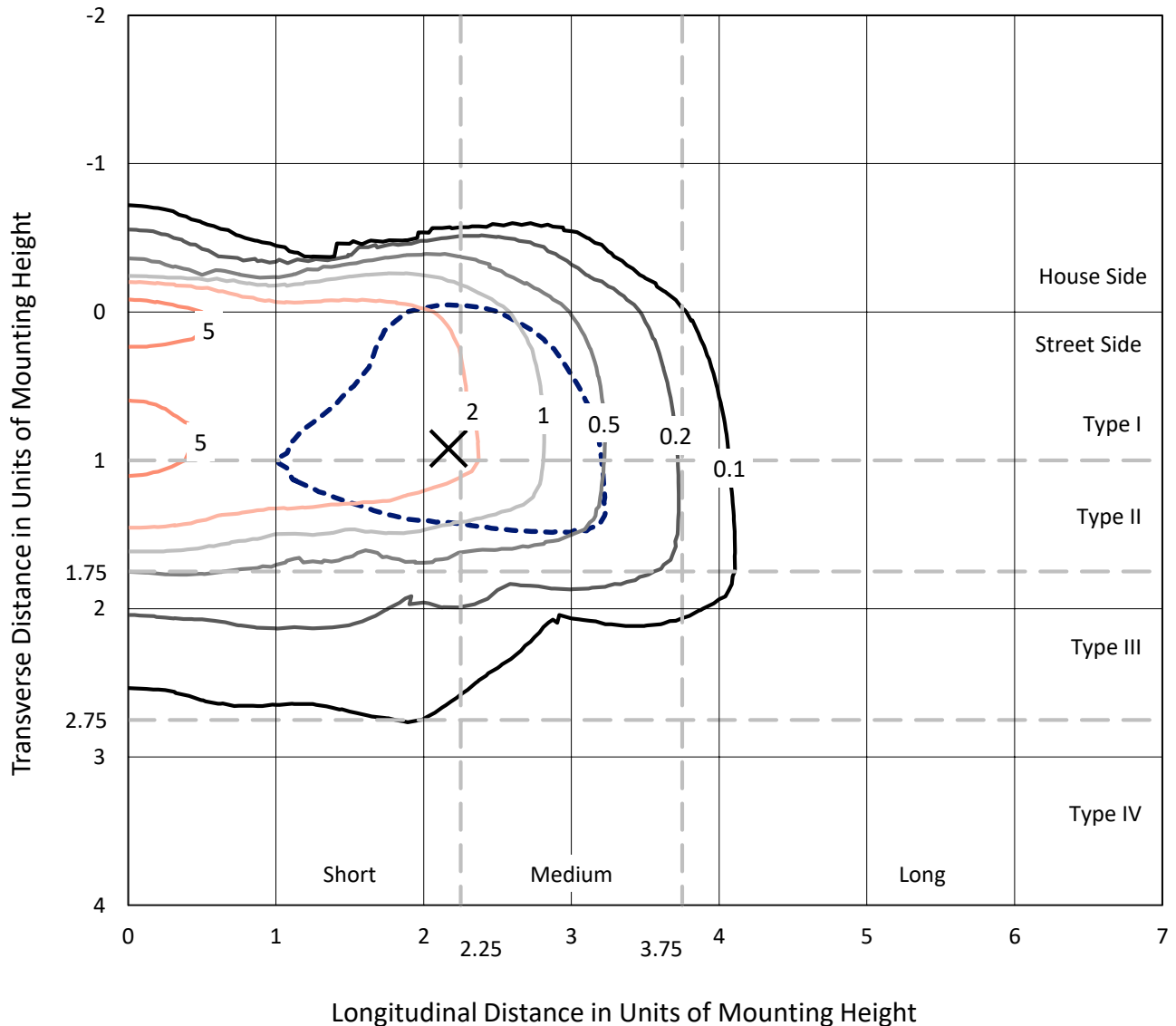


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### Iso-Footcandle Lines of Horizontal Illumination

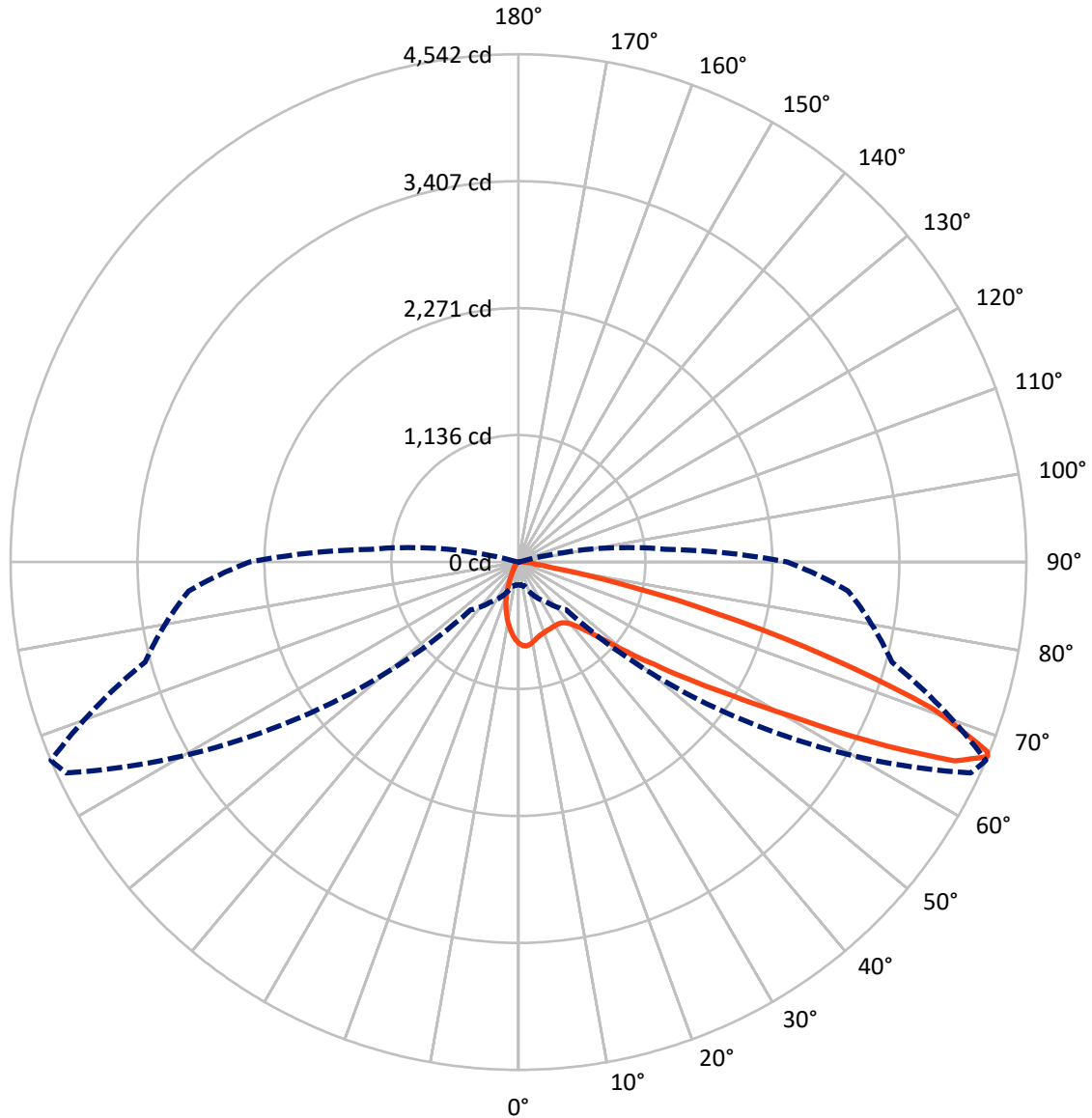
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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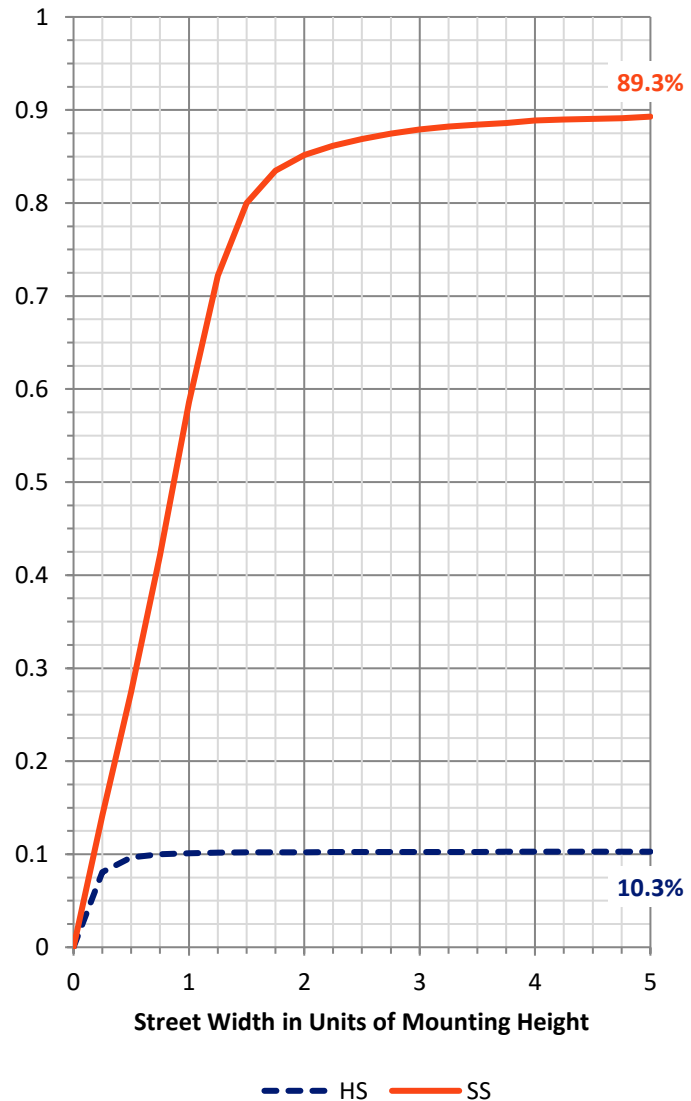
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	342.5	0.0	342.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	2956.0	0.0	2956.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	3298.5	0.0	3298.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	1.8
10°-20°	126.0	3.8
20°-30°	183.2	5.6
30°-40°	285.7	8.7
40°-50°	506.2	15.3
50°-60°	801.0	24.3
60°-70°	917.4	27.8
70°-80°	380.5	11.5
80°-90°	39.3	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°	3298.5	100.0
0°-180°	3298.5	100.0



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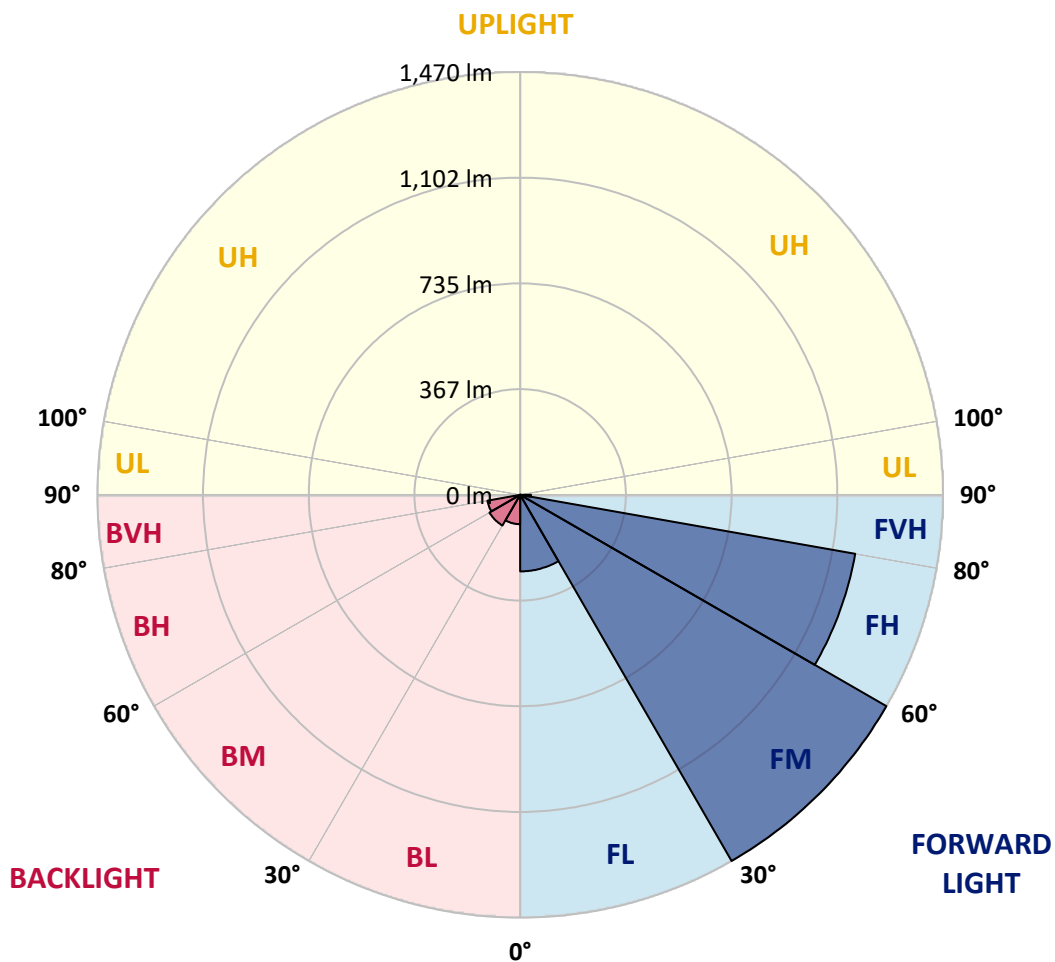
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.1	8.1			
FM	(30°-60°)	1469.8	44.6			
FH	(60°-80°)	1182.5	35.9			G1/1800
FVH	(80°-90°)	37.5	1.1			G1/100
BL	(0°-30°)	102.2	3.1	B0/110		
BM	(30°-60°)	123.1	3.7	B0/220		
BH	(60°-80°)	115.4	3.5	B1/500		G1/500
BVH	(80°-90°)	1.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5
2.5°	752.1	753.6	753.5	754.5	757.2	757.4	754.8	749.6	748.4	741.6	729.9
5°	693.5	698.0	700.7	711.7	723.9	738.7	749.9	754.0	753.5	748.6	730.9
7.5°	626.8	631.2	634.3	647.2	663.6	688.9	718.0	741.9	744.0	749.2	730.2
10°	582.4	583.1	587.4	599.7	616.8	642.8	677.4	719.2	725.5	744.5	728.2
12.5°	545.8	546.4	552.0	565.3	583.5	609.6	646.1	694.4	704.2	738.7	727.8
15°	519.9	522.0	526.9	540.8	560.2	586.2	623.5	676.0	687.8	736.7	731.3
17.5°	511.2	513.5	515.0	525.0	542.7	568.2	606.4	664.1	677.4	737.8	738.0
20°	520.3	522.0	518.5	521.0	532.0	554.7	592.0	653.9	669.7	739.2	746.7
22.5°	553.9	554.7	545.2	534.2	532.3	544.9	580.6	645.8	662.8	742.8	756.9
25°	611.6	610.3	594.9	571.2	548.9	543.2	573.9	640.9	659.4	746.7	767.4
27.5°	681.3	683.2	662.1	627.6	585.0	554.7	572.9	638.8	657.8	749.4	776.7
30°	765.9	768.6	744.3	701.0	640.0	583.1	581.8	638.3	656.8	747.7	777.4
32.5°	852.3	855.6	836.5	791.9	713.6	630.8	601.8	642.6	658.7	741.6	773.0
35°	942.7	947.3	934.7	896.3	813.3	699.8	637.0	655.5	667.8	741.1	768.6
37.5°	1067.6	1071.8	1048.0	1007.4	933.9	792.1	693.5	679.7	689.1	750.3	769.8
40°	1254.0	1253.4	1191.9	1129.7	1066.4	909.4	773.0	723.6	728.4	778.3	784.0
42.5°	1457.2	1456.2	1365.3	1270.7	1213.6	1053.9	877.5	799.4	796.1	829.6	820.9
45°	1613.8	1613.6	1539.4	1432.9	1390.8	1219.7	1012.5	904.8	899.9	913.1	889.0
47.5°	1680.6	1681.7	1644.4	1569.5	1587.3	1444.1	1182.9	1057.5	1050.1	1044.6	1008.1
50°	1628.6	1630.9	1634.0	1619.4	1731.3	1745.6	1411.2	1272.9	1269.2	1245.2	1188.0
52.5°	1458.9	1470.6	1506.8	1553.2	1781.4	2034.9	1769.2	1540.3	1520.7	1495.1	1432.2
55°	1173.0	1185.9	1254.6	1367.2	1706.9	2225.1	2271.0	1885.1	1852.3	1776.0	1685.1
57.5°	776.3	796.3	896.0	1039.2	1490.7	2255.7	2771.6	2363.5	2249.6	2040.5	1938.2
60°	427.7	446.9	555.1	684.7	1076.7	2104.4	3108.3	2986.5	2785.3	2336.2	2245.5
62.5°	263.4	273.8	353.6	474.2	645.6	1660.9	3178.0	3769.4	3536.4	2717.0	2616.6
65°	209.7	214.2	253.2	387.6	462.9	987.9	2953.1	4366.1	4288.5	3178.0	2948.8
67°	203.5	205.3	223.7	332.9	436.4	605.7	2474.0	4463.3	4542.2	3456.9	2959.2
67.5°	204.9	206.9	224.4	317.6	435.5	556.6	2308.9	4425.1	4524.6	3479.0	2913.2
70°	197.6	203.5	256.8	317.5	414.3	462.5	1382.8	3834.0	3937.7	3232.5	2471.9
72.5°	70.0	70.5	111.1	256.8	450.4	467.5	694.4	2810.6	2887.4	2472.8	1782.1
75°	41.6	35.4	36.9	73.1	430.4	454.0	400.5	1796.0	1824.6	1417.0	902.5
77.5°	28.7	25.0	25.8	32.3	163.9	447.7	318.2	936.6	906.0	497.0	192.2
80°	16.3	14.4	15.4	28.2	59.6	417.7	300.1	379.8	323.8	84.3	53.1
82.5°	8.7	7.3	8.8	23.3	41.6	260.4	300.7	183.6	145.4	28.5	36.2
85°	3.1	2.5	4.2	16.0	27.7	79.8	278.8	154.3	121.2	13.9	27.5
87.5°	0.5	0.5	1.7	6.6	11.2	24.4	164.9	91.6	61.3	8.3	18.9
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°	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5	727.5
2.5°	725.1	716.8	705.7	692.0	675.9	661.6	651.1	640.0	637.8	633.9	633.4
5°	720.3	706.1	678.4	646.6	612.8	582.1	557.3	535.2	525.4	517.0	516.0
7.5°	713.2	691.8	644.7	593.5	540.6	492.6	451.8	422.9	396.3	383.7	381.7
10°	704.9	674.3	606.9	535.9	462.7	394.8	334.1	283.4	252.6	234.4	232.0
12.5°	697.2	657.2	568.2	476.0	378.8	288.0	210.1	161.6	129.3	116.2	114.7
15°	693.5	643.4	532.0	414.8	291.1	183.3	114.8	88.9	78.3	75.2	75.1
17.5°	693.2	631.7	496.5	351.5	204.0	106.5	74.9	68.3	66.2	65.4	65.4
20°	693.0	620.5	461.2	285.9	129.5	71.0	62.3	60.8	59.3	58.3	58.3
22.5°	695.1	610.5	424.3	218.9	81.5	57.6	54.9	53.3	51.3	50.1	49.8
25°	697.2	602.8	386.6	155.8	59.1	50.1	47.4	45.2	42.5	40.8	40.6
27.5°	697.6	593.1	346.1	104.3	49.4	43.7	40.2	36.9	33.8	32.1	31.9
30°	691.8	577.0	301.3	70.5	43.7	37.9	33.3	29.9	27.0	25.6	25.6
32.5°	680.5	557.0	252.1	53.1	38.9	32.5	27.5	24.3	22.3	21.7	21.6
35°	670.3	535.4	201.4	45.0	34.8	27.5	22.6	20.4	19.2	19.0	18.9
37.5°	664.3	518.1	153.9	40.8	30.9	23.1	19.0	17.5	17.0	16.5	16.8
40°	668.9	503.6	113.7	37.4	27.2	19.2	16.1	15.4	14.8	14.6	14.6
42.5°	689.1	501.2	84.4	34.3	23.5	16.0	14.1	13.4	13.1	12.9	13.1
45°	742.3	516.5	65.6	31.4	19.8	13.4	11.9	11.7	11.5	11.5	11.5
47.5°	822.1	548.3	54.7	28.1	16.5	11.5	10.4	10.2	10.0	10.2	10.2
50°	957.3	606.4	48.9	24.8	13.6	9.8	8.8	8.8	8.8	8.8	9.0
52.5°	1163.0	720.7	45.0	21.6	11.2	8.3	7.5	7.5	7.7	7.7	7.8
55°	1392.1	872.3	41.6	18.3	9.5	6.9	6.1	6.3	6.6	6.8	6.8
57.5°	1640.8	1040.2	38.7	15.0	8.1	5.6	5.2	5.4	5.6	6.0	6.0
60°	1940.6	1222.1	34.5	11.7	6.8	4.4	4.1	4.4	5.0	5.4	5.6
62.5°	2270.1	1397.9	29.0	9.2	5.6	3.4	3.2	4.1	4.8	5.2	5.4
65°	2495.2	1453.1	22.3	7.5	4.2	2.5	2.7	3.7	4.6	5.2	5.2
67°	2404.0	1317.5	18.3	6.3	3.4	1.9	2.5	3.7	4.6	5.0	5.2
67.5°	2340.6	1264.4	17.5	6.1	3.2	1.9	2.5	3.7	4.6	5.2	5.2
70°	1904.5	949.8	14.6	4.6	2.7	1.7	2.1	3.4	4.4	5.0	5.0
72.5°	1323.3	585.7	13.1	3.2	2.3	1.5	1.9	3.2	4.2	4.8	5.0
75°	629.1	212.0	11.2	2.5	2.1	1.4	1.7	3.2	4.2	4.8	4.8
77.5°	128.4	49.3	9.0	2.1	1.7	1.4	1.5	3.1	4.1	4.6	4.6
80°	42.1	19.0	6.8	1.9	1.7	1.4	1.5	2.9	4.1	4.4	4.6
82.5°	30.4	9.7	4.4	1.9	1.7	1.4	1.4	2.9	3.9	4.4	4.4
85°	23.3	6.8	2.9	1.9	1.7	1.4	1.4	2.7	3.7	4.2	4.2
87.5°	15.4	2.7	2.3	1.9	1.7	1.4	1.4	2.7	3.4	4.1	4.2
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)