

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: P200123

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-600-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

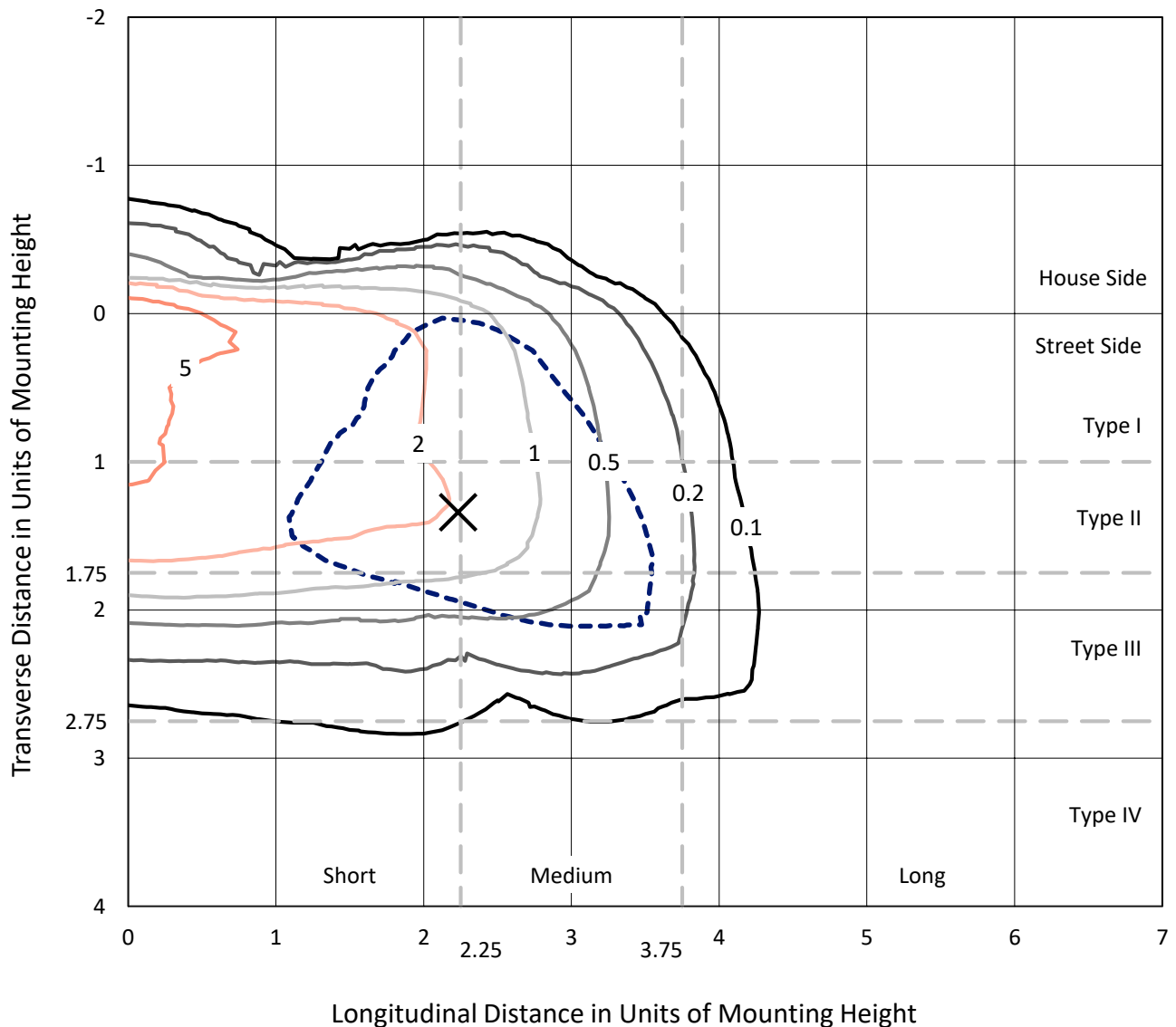
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

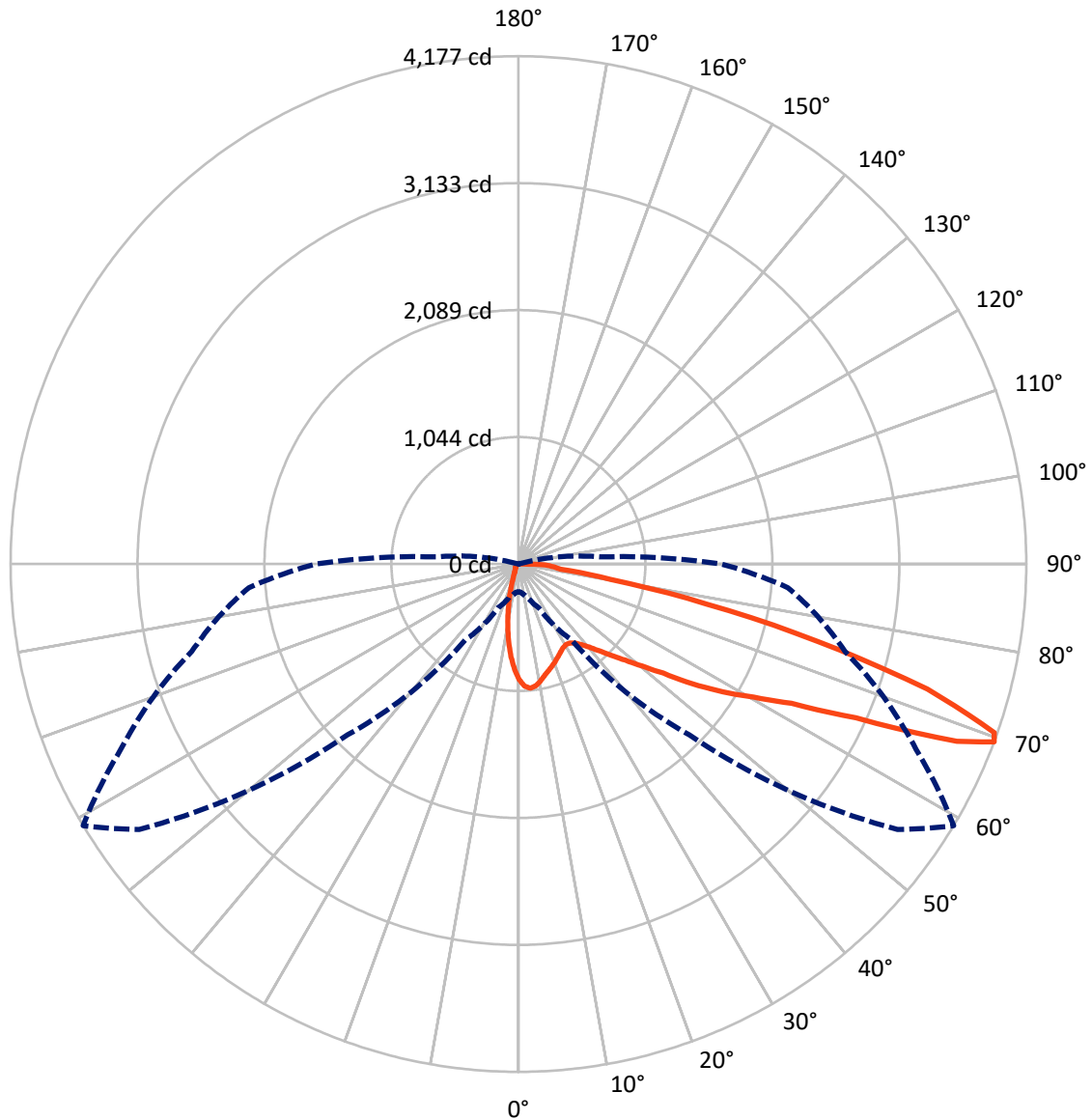
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.1	0.0	298.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3362.0	0.0	3362.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	3660.1	0.0	3660.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	2.1
10°-20°	159.8	4.4
20°-30°	215.0	5.9
30°-40°	312.2	8.5
40°-50°	519.8	14.2
50°-60°	810.9	22.2
60°-70°	1003.4	27.4
70°-80°	508.5	13.9
80°-90°	53.2	1.5
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°	3660.1	100.0
0°-180°	3660.1	100.0



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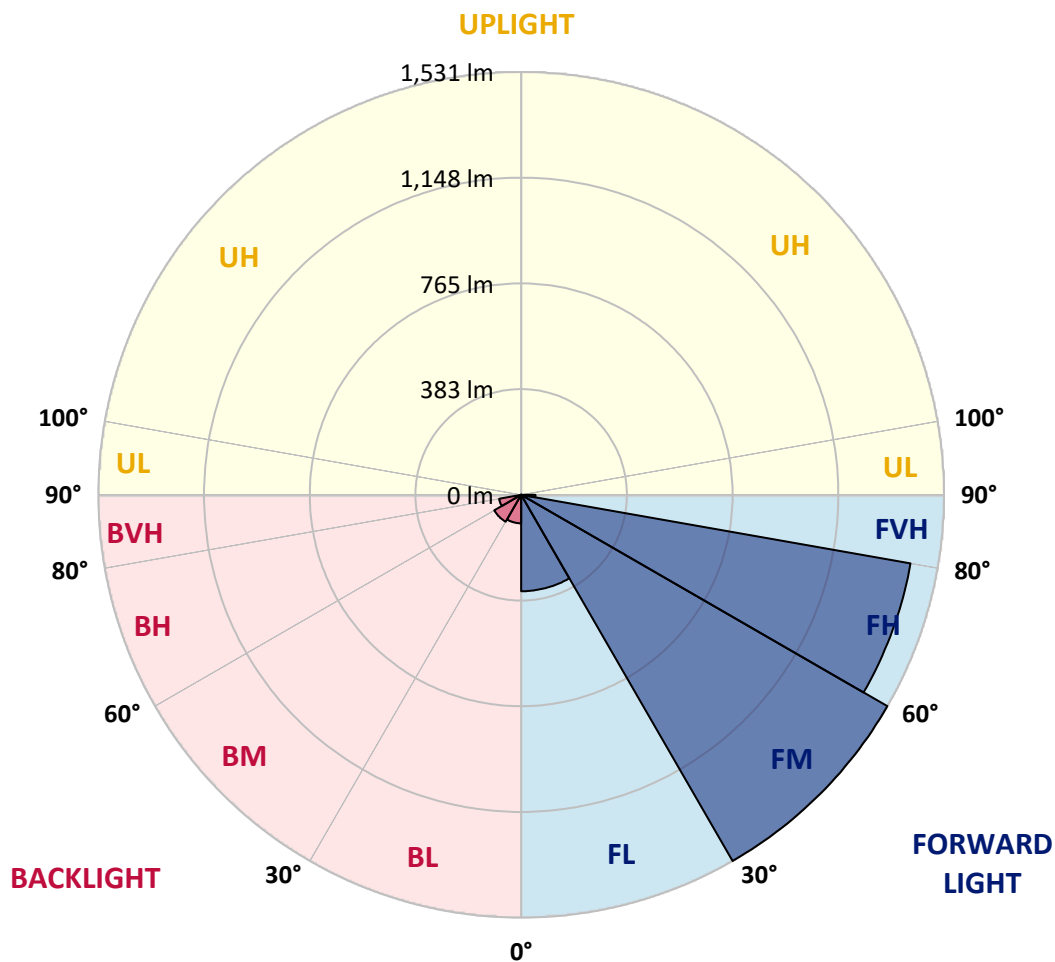
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.0	9.5			
FM	(30°-60°)	1530.6	41.8			
FH	(60°-80°)	1431.0	39.1			G1/1800
FVH	(80°-90°)	51.6	1.4			G1/100
BL	(0°-30°)	103.2	2.8	B0/110		
BM	(30°-60°)	112.3	3.1	B0/220		
BH	(60°-80°)	80.9	2.2	B0/110		G0/110
BVH	(80°-90°)	1.6	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7
2.5°	1044.1	1043.7	1039.2	1037.2	1033.4	1025.5	1013.3	1006.9	996.6	978.6	954.3
5°	1034.6	1039.6	1042.3	1042.5	1045.1	1042.3	1031.3	1025.9	1011.7	982.6	939.3
7.5°	970.1	971.9	979.6	986.2	999.0	1011.3	1015.2	1012.9	1004.4	973.3	915.6
10°	900.9	902.8	911.9	920.6	937.9	956.9	976.7	980.8	984.4	960.1	892.8
12.5°	841.4	843.2	852.5	863.9	884.1	907.4	938.1	945.0	960.6	947.5	874.6
15°	790.0	790.8	799.9	814.0	838.2	868.1	903.0	914.0	937.7	938.6	858.7
17.5°	746.3	748.4	754.0	767.4	793.9	830.7	871.6	887.3	915.2	931.2	843.2
20°	719.6	721.7	721.5	729.0	752.8	792.1	840.0	859.0	892.8	923.5	829.3
22.5°	714.4	714.4	709.1	708.1	722.1	755.0	807.4	830.3	872.8	920.1	819.6
25°	732.8	732.0	718.6	707.7	708.3	727.9	775.7	803.0	855.8	922.5	814.5
27.5°	771.8	770.8	753.8	732.8	716.1	715.9	751.7	781.1	842.4	933.2	816.5
30°	825.6	825.2	806.8	780.5	750.0	722.1	743.5	770.2	833.7	952.7	821.2
32.5°	884.3	883.7	869.9	842.2	803.6	750.0	752.2	774.5	836.2	978.6	832.9
35°	946.6	945.6	939.7	915.4	873.0	801.6	780.7	798.1	851.9	1017.2	855.6
37.5°	1014.2	1015.2	1019.6	996.4	951.9	873.8	828.5	840.3	883.5	1069.8	892.6
40°	1113.7	1113.5	1114.9	1084.5	1041.7	962.2	895.4	899.1	936.5	1139.6	949.0
42.5°	1294.3	1281.8	1243.5	1181.4	1138.3	1063.2	979.6	975.7	1001.4	1225.9	1027.8
45°	1537.2	1510.3	1411.0	1291.9	1236.8	1177.0	1083.3	1070.6	1087.0	1329.5	1125.0
47.5°	1746.0	1718.0	1577.5	1407.0	1341.4	1285.0	1204.7	1182.0	1187.3	1445.6	1248.4
50°	1817.0	1803.4	1680.6	1507.1	1442.6	1421.1	1345.7	1318.0	1310.3	1580.0	1391.4
52.5°	1792.3	1791.3	1709.6	1572.2	1535.3	1561.7	1523.1	1491.1	1462.8	1721.5	1537.0
55°	1752.8	1758.0	1721.3	1629.0	1627.8	1690.3	1765.6	1738.9	1657.4	1875.4	1662.4
57.5°	1643.8	1665.9	1714.8	1736.7	1787.6	1851.5	1967.6	1983.4	1886.9	1993.1	1766.4
60°	1333.7	1382.3	1542.1	1752.2	1993.5	2152.9	2211.4	2224.9	2075.3	2091.0	1907.0
62.5°	946.6	996.4	1199.0	1554.4	1996.6	2548.8	2574.7	2521.9	2282.6	2236.1	2149.3
65°	502.5	540.8	706.3	1122.0	1731.0	2640.7	3209.9	3052.6	2648.6	2521.5	2462.5
67.5°	257.1	268.6	334.5	549.1	1190.1	2345.6	3779.3	3890.0	3279.2	2804.6	2447.4
69°	227.5	234.3	277.9	397.0	762.1	1986.7	3807.0	4177.4	3609.4	2781.0	2224.1
70°	220.2	226.2	266.0	359.3	595.7	1666.1	3700.8	4152.3	3693.8	2691.2	2057.3
72.5°	186.9	192.1	236.8	317.5	484.1	827.1	3006.2	3518.4	3314.6	2241.9	1489.1
75°	125.0	142.0	227.3	297.6	450.4	469.8	1982.0	2542.6	2361.9	1512.1	775.7
77.5°	30.0	32.3	64.1	236.8	411.8	413.5	1019.4	1580.7	1289.2	539.0	183.4
80°	16.2	15.5	18.0	47.0	383.5	388.1	458.9	767.2	460.3	89.4	60.5
82.5°	11.4	10.7	11.6	19.6	120.7	353.5	331.9	347.3	190.8	34.4	27.1
85°	4.1	3.9	6.4	17.8	37.8	203.3	341.1	286.4	154.6	15.8	19.8
87.5°	1.4	1.2	2.5	9.7	11.6	86.5	210.5	216.5	60.9	9.5	9.3
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°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7
2.5°	944.2	931.4	907.8	883.5	861.2	834.3	820.8	807.6	802.0	799.9	790.2
5°	916.9	895.2	845.1	794.7	748.4	699.2	666.7	640.6	625.2	617.8	606.0
7.5°	881.9	846.3	770.4	692.7	620.5	549.3	496.5	455.9	428.0	414.6	402.3
10°	847.9	800.6	692.5	586.8	488.7	394.2	321.4	268.6	234.9	219.4	209.5
12.5°	817.5	756.1	617.4	483.4	360.3	249.8	175.7	133.7	112.8	105.6	102.0
15°	790.4	715.0	546.4	385.3	244.0	142.8	96.1	81.7	78.5	78.5	78.1
17.5°	764.8	674.9	477.9	293.3	153.1	87.4	73.0	71.2	71.2	72.0	72.0
20°	740.1	636.7	411.6	210.5	96.5	69.4	66.0	65.6	66.0	67.1	67.1
22.5°	719.0	601.9	349.7	144.4	71.6	62.5	60.9	60.3	60.5	61.1	61.5
25°	703.3	572.4	291.4	97.9	61.7	56.9	55.0	54.0	53.2	53.2	53.6
27.5°	693.4	547.7	234.9	71.2	55.4	51.8	48.8	47.2	45.3	44.3	44.7
30°	686.1	524.1	181.9	58.2	49.7	45.9	42.2	39.5	36.8	35.6	36.0
32.5°	683.4	505.0	136.0	51.4	44.5	40.4	35.8	32.3	29.4	28.3	28.5
35°	690.7	489.9	99.5	46.3	40.4	35.2	30.0	26.1	23.8	23.2	23.4
37.5°	709.7	481.8	74.5	42.2	36.6	30.8	25.1	21.3	19.8	19.8	20.0
40°	745.7	481.6	59.8	39.3	33.3	26.7	20.7	18.0	17.2	17.6	17.8
42.5°	798.3	492.6	52.2	36.6	30.4	22.8	17.2	15.3	15.1	15.5	15.8
45°	870.1	512.7	48.0	34.4	27.3	19.0	14.5	13.2	13.2	13.9	14.1
47.5°	958.1	542.1	44.5	32.1	24.2	16.0	12.4	11.6	11.8	12.4	12.6
50°	1064.1	579.1	41.0	29.6	21.9	13.2	10.7	10.1	10.3	11.2	11.4
52.5°	1184.7	629.0	38.1	27.3	19.0	10.9	9.1	8.7	9.1	9.9	10.1
55°	1288.2	673.7	34.6	25.5	15.3	9.1	7.5	7.5	7.9	8.9	9.1
57.5°	1387.7	720.5	31.5	21.9	12.0	7.3	6.2	6.4	7.1	8.1	8.3
60°	1533.8	799.7	27.7	18.4	9.1	5.8	5.2	5.4	6.2	7.3	7.5
62.5°	1782.0	920.3	24.0	15.3	7.1	4.6	4.1	4.6	5.6	6.9	7.1
65°	2005.9	969.5	19.6	12.8	5.4	3.5	3.5	4.1	5.4	6.6	6.9
67.5°	1881.1	816.1	15.3	10.1	4.1	2.7	2.9	3.9	5.2	6.6	6.9
69°	1663.6	667.3	13.0	8.1	3.5	2.5	2.7	3.9	5.2	6.4	6.6
70°	1494.1	563.3	11.6	6.9	3.1	2.5	2.7	3.7	5.2	6.4	6.6
72.5°	1000.7	304.2	9.3	5.0	2.9	2.3	2.3	3.7	5.0	6.2	6.4
75°	430.0	84.0	7.5	3.5	2.5	2.0	2.0	3.5	4.8	6.0	6.4
77.5°	78.7	21.3	6.0	3.1	2.5	2.0	1.8	3.3	4.6	5.8	6.0
80°	31.3	10.5	4.8	2.7	2.3	1.8	1.6	3.1	4.3	5.6	5.8
82.5°	18.8	6.0	3.9	2.5	2.3	1.6	1.4	2.7	4.1	5.4	5.6
85°	15.3	4.1	3.1	2.5	2.0	1.6	1.2	2.5	3.7	5.2	5.4
87.5°	7.5	2.9	2.9	2.3	2.0	1.6	1.2	2.3	3.5	5.0	5.2
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)