

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: P270094

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270094
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-SL3-7027-800-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3747.5 lumens
Efficiency: N/A
Efficacy: 85.2 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): 44
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

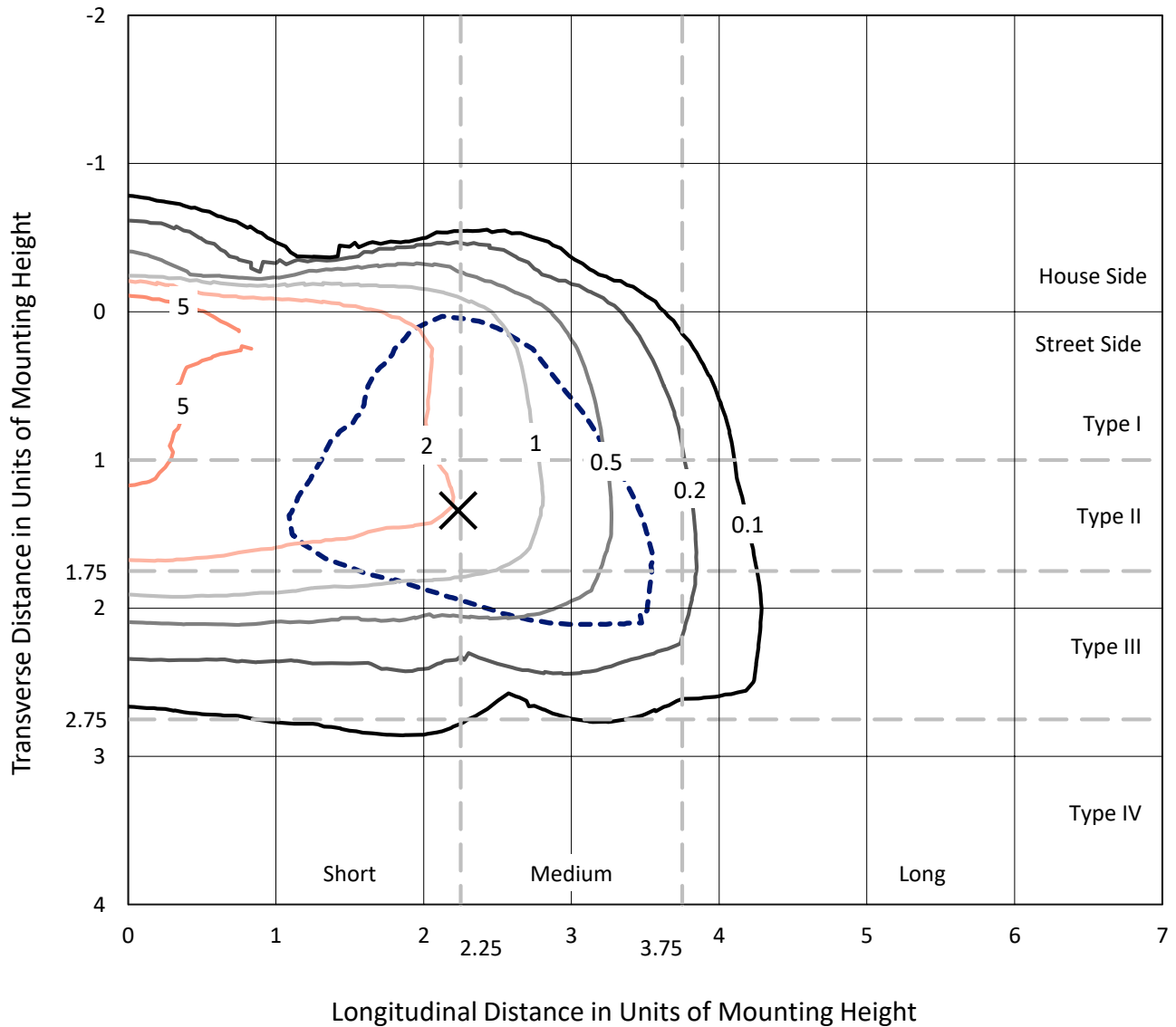


REPORT NUMBER: P270094

CATALOG NUMBER: GWC-AF-01-LED-E1-SL3-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

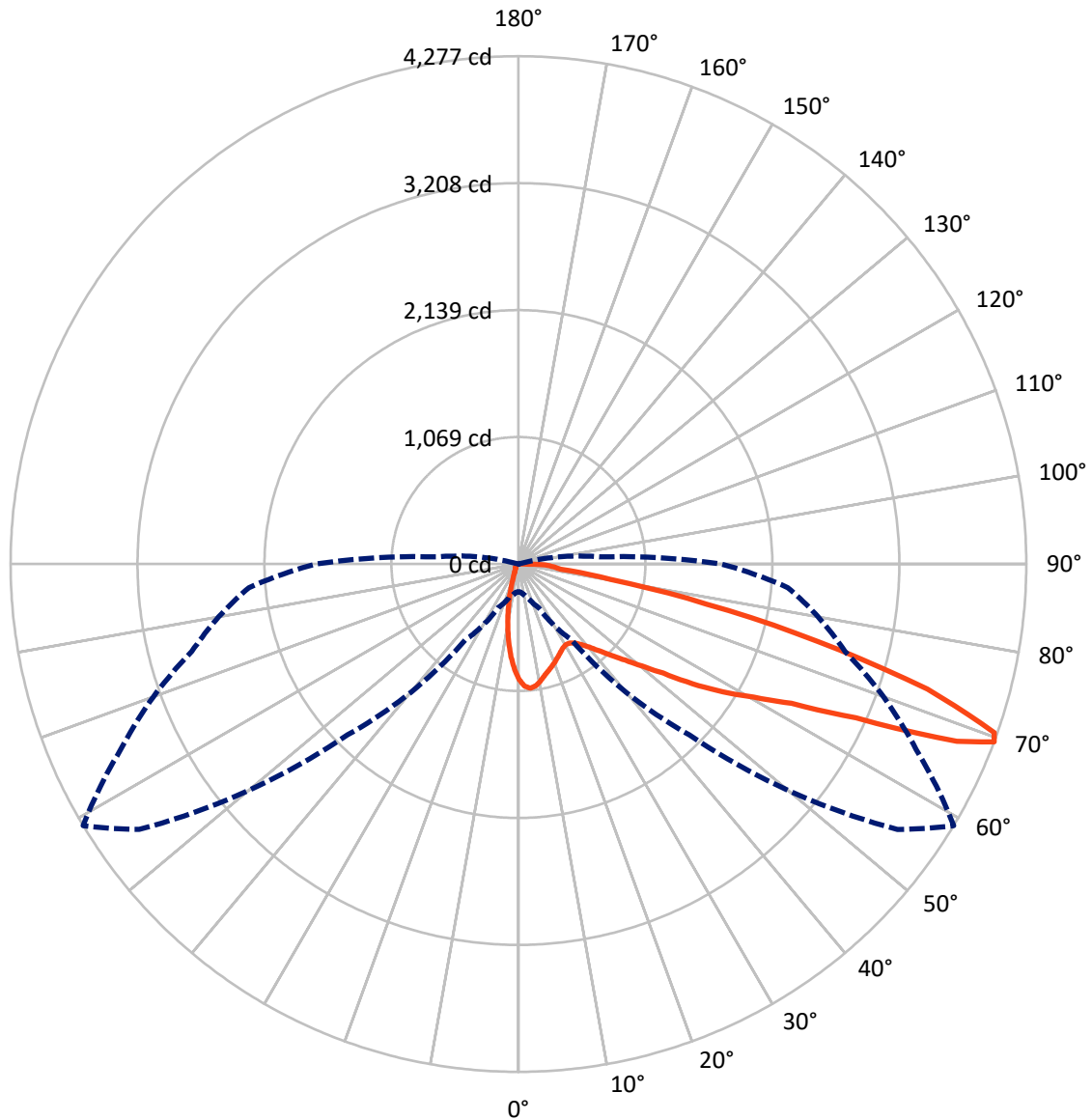


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P270094

CATALOG NUMBER: GWC-AF-01-LED-E1-SL3-7027-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270094

CATALOG NUMBER: GWC-AF-01-LED-E1-SL3-7027-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	305.2	0.0	305.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	3442.3	0.0	3442.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	3747.5	0.0	3747.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	2.1
10°-20°	163.6	4.4
20°-30°	220.1	5.9
30°-40°	319.6	8.5
40°-50°	532.2	14.2
50°-60°	830.2	22.2
60°-70°	1027.3	27.4
70°-80°	520.7	13.9
80°-90°	54.5	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°	3747.5	100.0
0°-180°	3747.5	100.0



REPORT NUMBER: P270094

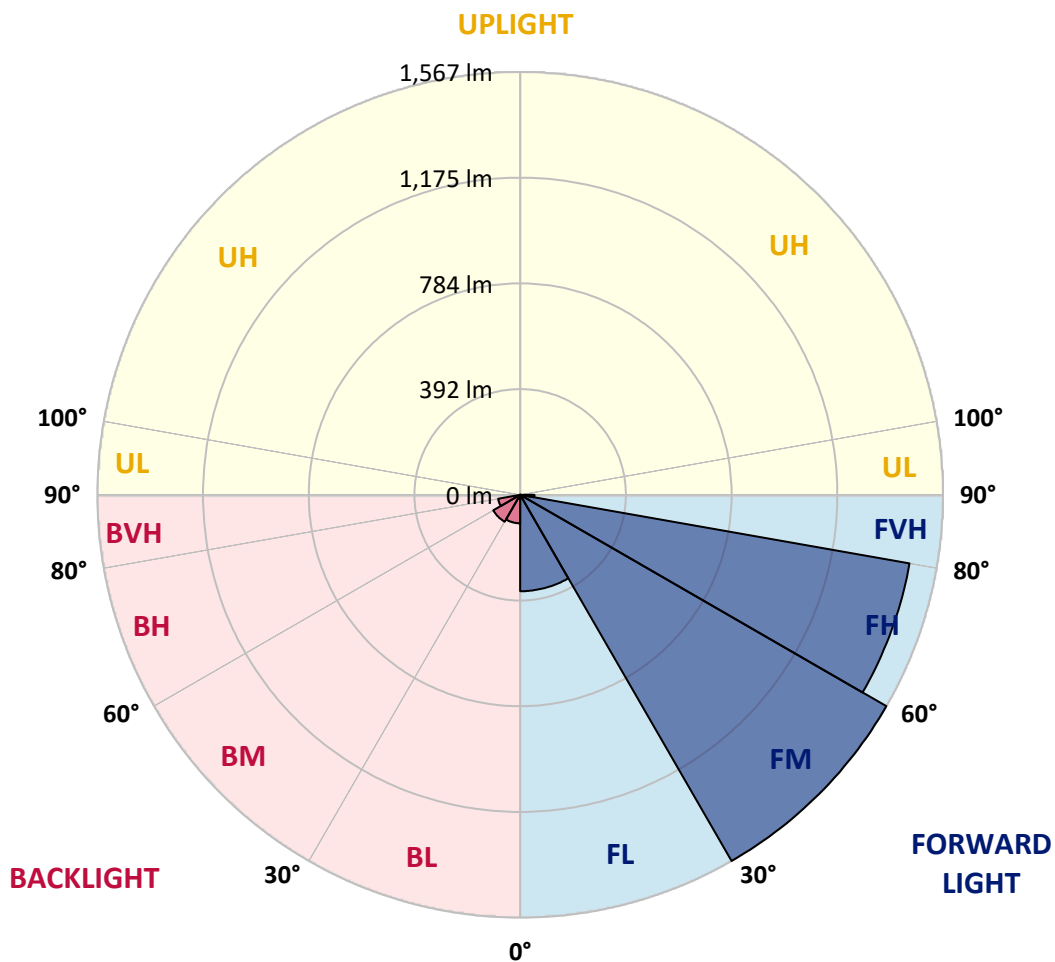
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.3	9.5			
FM	(30°-60°)	1567.1	41.8			
FH	(60°-80°)	1465.1	39.1			G1/1800
FVH	(80°-90°)	52.8	1.4			G1/100
BL	(0°-30°)	105.6	2.8	B0/110		
BM	(30°-60°)	115.0	3.1	B0/220		
BH	(60°-80°)	82.9	2.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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





REPORT NUMBER: P270094

CATALOG NUMBER: GWC-AF-01-LED-E1-SL3-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5
2.5°	1069.1	1068.6	1064.0	1061.9	1058.0	1050.0	1037.5	1030.9	1020.3	1001.9	977.1
5°	1059.3	1064.4	1067.2	1067.4	1070.2	1067.2	1056.0	1050.4	1035.7	1006.1	961.6
7.5°	993.3	995.1	1003.0	1009.7	1022.8	1035.4	1039.4	1037.1	1028.5	996.6	937.5
10°	922.4	924.4	933.7	942.6	960.4	979.6	1000.0	1004.2	1007.9	983.1	914.2
12.5°	861.4	863.4	872.9	884.5	905.3	929.0	960.6	967.6	983.5	970.2	895.6
15°	808.8	809.7	819.1	833.4	858.2	888.7	924.5	935.8	960.1	961.0	879.2
17.5°	764.2	766.3	772.0	785.7	812.9	850.6	892.4	908.4	937.0	953.4	863.4
20°	736.8	738.9	738.7	746.3	770.7	811.0	860.1	879.4	914.2	945.6	849.2
22.5°	731.6	731.6	725.9	725.0	739.4	773.0	826.7	850.2	893.6	942.1	839.1
25°	750.4	749.5	735.8	724.5	725.2	745.2	794.3	822.2	876.3	944.5	833.8
27.5°	790.2	789.2	771.8	750.4	733.2	733.0	769.7	799.8	862.5	955.5	836.0
30°	845.3	844.9	826.0	799.0	768.0	739.4	761.1	788.4	853.6	975.5	840.9
32.5°	905.5	904.9	890.7	862.3	822.8	768.0	770.0	793.0	856.1	1001.9	852.8
35°	969.3	968.2	962.1	937.3	893.8	820.7	799.3	817.1	872.3	1041.6	876.0
37.5°	1038.4	1039.4	1043.8	1020.1	974.6	894.7	848.3	860.4	904.7	1095.4	914.0
40°	1140.2	1140.0	1141.5	1110.5	1066.6	985.2	916.7	920.6	958.9	1166.8	971.6
42.5°	1325.3	1312.4	1273.1	1209.6	1165.6	1088.6	1003.0	998.9	1025.2	1255.2	1052.4
45°	1573.8	1546.3	1444.6	1322.7	1266.3	1205.1	1109.0	1096.2	1112.9	1361.3	1151.9
47.5°	1787.6	1759.0	1615.2	1440.5	1373.3	1315.7	1233.6	1210.2	1215.7	1480.1	1278.2
50°	1860.3	1846.3	1720.7	1543.1	1477.0	1455.0	1377.8	1349.4	1341.6	1617.7	1424.7
52.5°	1835.1	1834.1	1750.3	1609.7	1571.9	1599.1	1559.4	1526.6	1497.7	1762.7	1573.7
55°	1794.6	1799.9	1762.5	1668.0	1666.7	1730.7	1807.8	1780.4	1697.0	1920.1	1702.1
57.5°	1683.0	1705.6	1755.6	1778.1	1830.2	1895.7	2014.6	2030.7	1932.0	2040.7	1808.6
60°	1365.5	1415.4	1579.0	1794.0	2041.1	2204.3	2264.2	2278.0	2124.8	2140.9	1952.6
62.5°	969.3	1020.1	1227.5	1591.4	2044.3	2609.6	2636.2	2582.1	2337.1	2289.5	2200.6
65°	514.5	553.7	723.2	1148.8	1772.4	2703.7	3286.4	3125.4	2711.8	2581.6	2521.3
67.5°	263.2	275.1	342.4	562.2	1218.5	2401.6	3869.4	3982.8	3357.5	2871.6	2505.8
69°	232.9	239.8	284.7	406.4	780.3	2034.1	3897.9	4277.2	3695.4	2847.4	2277.1
70°	225.5	231.7	272.3	367.9	609.9	1705.9	3789.1	4251.3	3781.9	2755.4	2106.3
72.5°	191.3	196.6	242.5	325.1	495.7	846.7	3078.0	3602.5	3393.7	2295.3	1524.7
75°	128.0	145.4	232.8	304.7	461.1	481.0	2029.3	2603.3	2418.3	1548.2	794.3
77.5°	30.7	33.1	65.7	242.5	421.8	423.4	1043.7	1618.3	1320.0	551.8	187.7
80°	16.5	15.9	18.4	48.1	392.6	397.3	469.8	785.6	471.3	91.5	61.8
82.5°	11.7	11.0	11.9	20.1	123.5	361.9	339.9	355.5	195.4	35.2	27.8
85°	4.2	4.0	6.6	18.2	38.8	208.1	349.2	293.3	158.4	16.1	20.4
87.5°	1.4	1.3	2.5	10.0	11.9	88.6	215.5	221.6	62.3	9.7	9.5
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: P270094

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5	975.5
2.5°	966.7	953.6	929.5	904.7	881.8	854.2	840.4	826.9	821.1	819.1	809.0
5°	938.8	916.5	865.2	813.8	766.3	715.9	682.5	655.9	640.1	632.6	620.5
7.5°	902.9	866.5	788.8	709.3	635.3	562.4	508.4	466.8	438.2	424.4	412.0
10°	868.2	819.6	709.0	600.7	500.3	403.7	329.1	275.1	240.6	224.6	214.5
12.5°	837.0	774.1	632.1	495.1	368.9	255.7	179.9	136.9	115.5	108.1	104.5
15°	809.3	732.1	559.4	394.5	249.8	146.2	98.3	83.7	80.3	80.3	79.9
17.5°	783.0	691.1	489.3	300.3	156.8	89.5	74.7	72.9	72.9	73.8	73.8
20°	757.8	651.8	421.5	215.5	98.7	71.1	67.6	67.2	67.6	68.7	68.7
22.5°	736.2	616.2	358.2	148.0	73.3	64.0	62.3	61.6	61.8	62.5	62.9
25°	720.1	586.1	298.3	100.3	63.1	58.3	56.3	55.2	54.4	54.4	54.9
27.5°	709.9	560.6	240.6	72.9	56.9	53.0	49.9	48.3	46.4	45.4	45.7
30°	702.5	536.6	186.3	59.6	50.8	47.1	43.2	40.4	37.7	36.5	36.8
32.5°	699.7	517.1	139.2	52.6	45.5	41.3	36.7	33.1	30.1	29.0	29.2
35°	707.1	501.6	101.9	47.4	41.3	36.0	30.7	26.8	24.4	23.7	23.9
37.5°	726.6	493.3	76.4	43.2	37.5	31.5	25.7	21.8	20.4	20.4	20.6
40°	763.5	493.2	61.3	40.2	34.1	27.3	21.2	18.4	17.5	18.1	18.2
42.5°	817.3	504.3	53.4	37.5	31.2	23.4	17.5	15.7	15.5	15.9	16.1
45°	890.8	524.9	49.2	35.2	27.9	19.5	14.8	13.6	13.6	14.2	14.4
47.5°	980.9	555.0	45.5	32.8	24.8	16.3	12.8	11.9	12.0	12.8	12.9
50°	1089.4	592.9	42.0	30.3	22.5	13.6	11.0	10.4	10.6	11.5	11.7
52.5°	1213.0	644.0	39.0	27.9	19.5	11.2	9.3	8.9	9.3	10.2	10.4
55°	1319.0	689.8	35.4	26.1	15.7	9.3	7.6	7.6	8.0	9.1	9.3
57.5°	1420.8	737.6	32.2	22.5	12.2	7.5	6.4	6.6	7.3	8.3	8.5
60°	1570.5	818.8	28.4	18.8	9.3	5.9	5.3	5.5	6.4	7.5	7.6
62.5°	1824.5	942.3	24.6	15.7	7.3	4.7	4.2	4.7	5.7	6.9	7.3
65°	2053.8	992.5	20.1	13.1	5.5	3.6	3.6	4.2	5.5	6.7	6.9
67.5°	1926.1	835.5	15.7	10.4	4.2	2.8	3.0	4.0	5.3	6.7	6.9
69°	1703.4	683.3	13.3	8.3	3.6	2.5	2.8	4.0	5.3	6.6	6.7
70°	1529.7	576.8	11.9	6.9	3.1	2.5	2.8	3.9	5.3	6.6	6.7
72.5°	1024.6	311.5	9.5	5.1	3.0	2.3	2.3	3.9	5.1	6.4	6.6
75°	440.3	86.1	7.6	3.6	2.5	2.2	2.2	3.6	4.9	6.2	6.6
77.5°	80.6	21.8	6.2	3.1	2.5	2.2	1.9	3.4	4.7	5.9	6.2
80°	32.1	10.8	4.9	2.8	2.3	1.9	1.7	3.1	4.4	5.7	5.9
82.5°	19.3	6.2	4.0	2.5	2.3	1.7	1.4	2.8	4.2	5.5	5.7
85°	15.7	4.2	3.1	2.5	2.2	1.7	1.3	2.5	3.9	5.3	5.5
87.5°	7.6	3.0	3.0	2.3	2.2	1.7	1.3	2.3	3.6	5.1	5.3
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)