

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: P268985

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5303.9 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

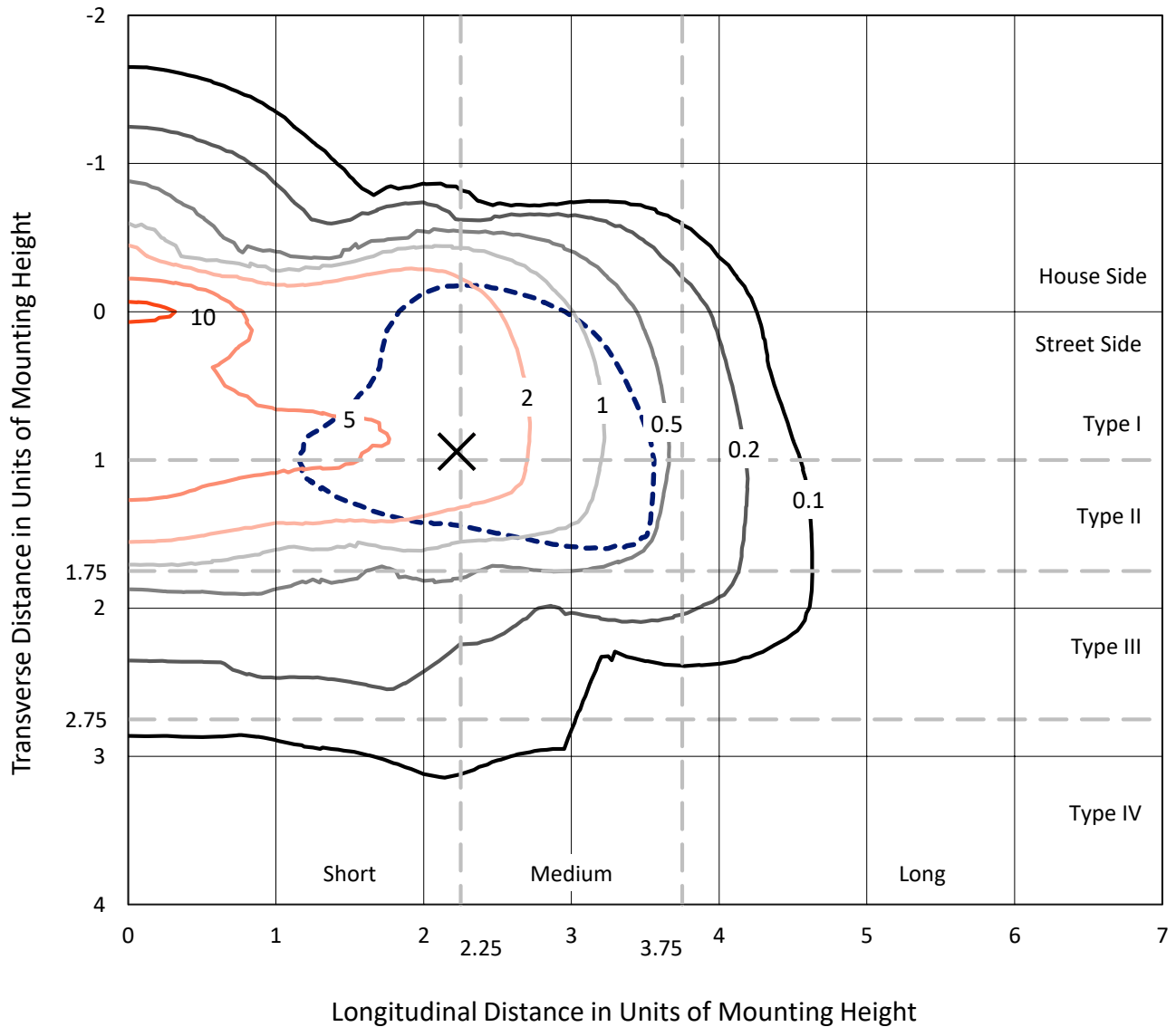
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

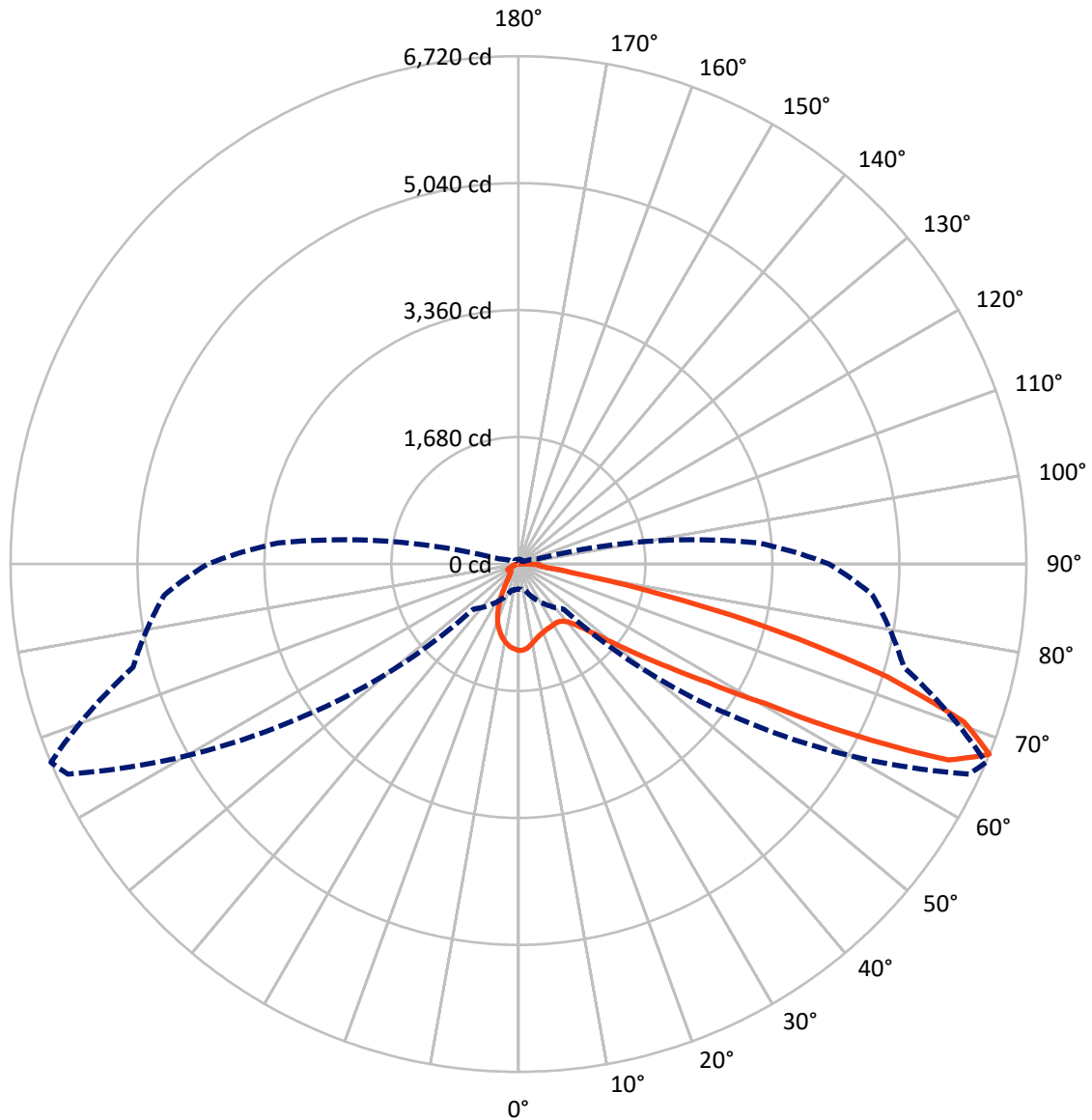
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.8	0.0	878.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	4425.1	0.0	4425.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	5303.9	0.0	5303.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.8
10°-20°	225.8	4.3
20°-30°	306.1	5.8
30°-40°	435.2	8.2
40°-50°	728.1	13.7
50°-60°	1151.9	21.7
60°-70°	1467.4	27.7
70°-80°	768.6	14.5
80°-90°	123.3	2.3
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°	5303.9	100.0
0°-180°	5303.9	100.0

Coefficient of Utilization



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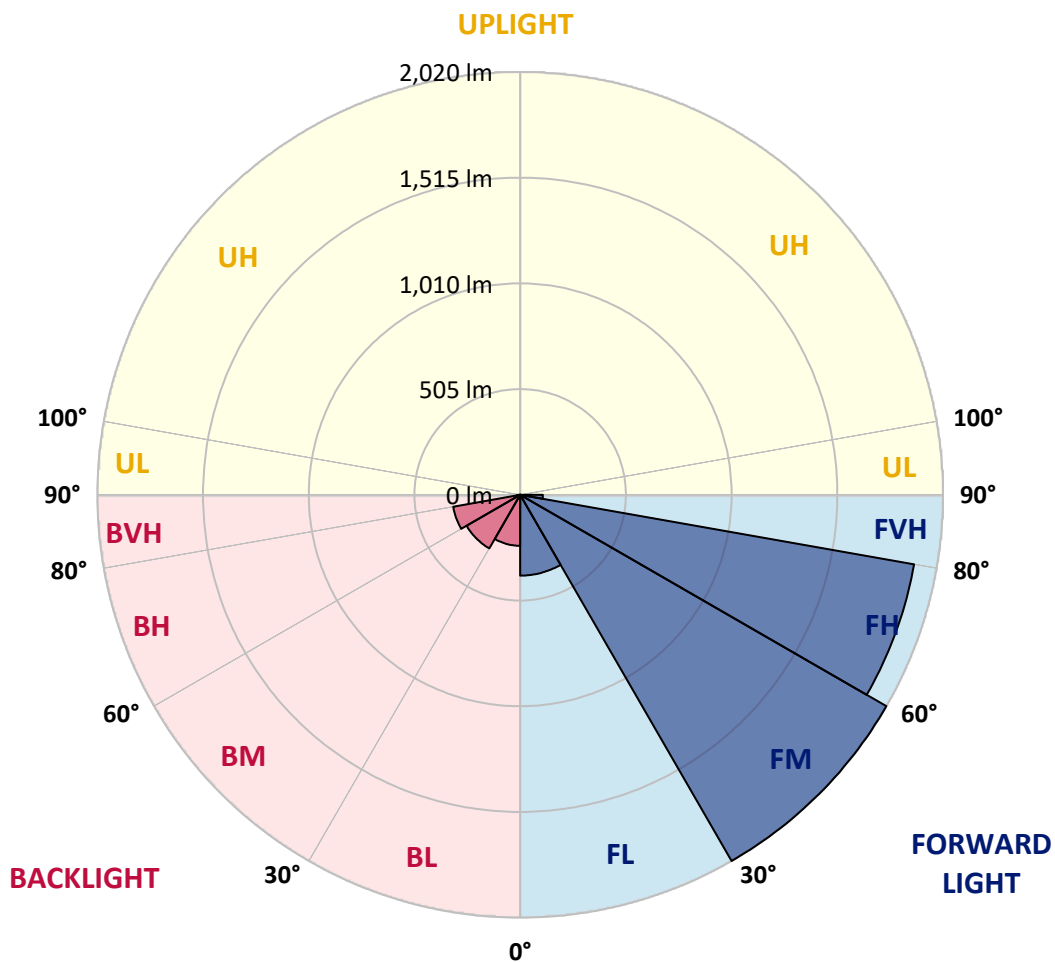
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.0	7.3			
FM (30°-60°)	2019.8	38.1			
FH (60°-80°)	1910.9	36.0			G2/5000
FVH (80°-90°)	108.4	2.0			G2/225
BL (0°-30°)	243.6	4.6	B1/500		
BM (30°-60°)	295.3	5.6	B1/1000		
BH (60°-80°)	325.0	6.1	B1/500		G1/500
BVH (80°-90°)	14.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1097.0	1098.7	1104.6	1108.1	1124.7	1131.8	1136.7	1141.7	1142.5	1144.8	1142.5
5°	981.8	985.8	996.5	1008.5	1040.4	1065.6	1092.0	1119.5	1124.4	1142.3	1147.1
7.5°	892.6	891.7	900.6	915.0	947.6	982.3	1028.6	1083.4	1094.0	1134.1	1153.5
10°	827.6	826.8	836.2	851.1	882.2	915.3	967.5	1042.4	1057.5	1121.3	1159.5
12.5°	779.4	779.6	789.2	805.6	837.2	870.5	923.5	1002.6	1021.9	1106.4	1165.7
15°	747.5	749.6	757.2	774.7	805.6	838.7	890.8	972.8	994.5	1094.7	1172.7
17.5°	736.8	740.3	742.8	755.7	782.1	815.3	866.2	950.8	973.8	1086.5	1179.0
20°	746.8	750.7	745.8	750.2	767.0	796.2	846.9	933.5	957.1	1077.3	1179.8
22.5°	789.4	793.1	778.4	765.5	764.5	782.3	830.9	919.9	944.2	1070.5	1180.2
25°	864.4	866.8	842.3	812.3	783.3	777.4	819.8	910.5	936.4	1064.5	1175.2
27.5°	956.5	958.3	930.0	886.2	827.8	789.2	815.8	905.0	931.9	1059.3	1166.8
30°	1068.4	1077.1	1039.2	983.7	898.8	823.8	823.7	902.1	927.0	1050.4	1150.3
32.5°	1183.0	1186.8	1160.5	1104.2	994.2	885.1	845.7	904.2	925.7	1039.7	1129.3
35°	1299.2	1303.9	1286.8	1241.5	1124.7	974.8	888.6	916.5	933.8	1036.0	1114.7
37.5°	1449.5	1455.9	1432.3	1379.9	1283.5	1096.4	959.8	947.4	958.6	1046.4	1110.3
40°	1687.2	1684.4	1615.6	1537.7	1457.1	1252.1	1061.9	999.6	1006.2	1080.2	1123.9
42.5°	1964.1	1957.0	1838.6	1716.0	1648.1	1440.4	1196.9	1090.5	1089.1	1146.6	1171.7
45°	2184.8	2179.0	2072.3	1921.4	1866.9	1654.9	1371.4	1225.6	1215.9	1252.1	1260.2
47.5°	2304.3	2304.5	2243.1	2119.9	2118.7	1927.5	1595.5	1421.3	1404.6	1421.6	1412.9
50°	2262.4	2268.0	2261.5	2222.1	2348.3	2284.7	1888.1	1694.2	1660.3	1677.0	1643.9
52.5°	2060.1	2067.1	2105.7	2166.0	2444.7	2716.6	2318.2	2033.0	1993.9	1987.8	1950.9
55°	1701.2	1709.7	1788.7	1952.2	2364.5	3006.5	2996.7	2465.2	2402.6	2346.0	2330.3
57.5°	1172.6	1186.9	1314.0	1556.9	2104.6	3094.2	3804.6	3081.1	2953.9	2755.7	2759.5
60°	661.0	677.7	827.6	1048.1	1580.6	2999.0	4419.2	4014.0	3745.8	3235.8	3263.0
62.5°	420.3	438.4	552.2	728.2	948.4	2486.4	4671.1	5311.1	4970.3	3827.4	3854.0
65°	340.3	348.2	401.7	601.1	688.7	1498.0	4479.8	6379.7	6252.6	4578.3	4453.7
67.5°	332.2	334.8	362.6	504.6	660.4	841.9	3573.4	6579.5	6720.4	5279.5	4703.5
70°	328.2	337.5	408.5	481.5	632.4	710.1	2147.4	6031.7	6254.3	5462.9	4371.2
72.5°	159.3	158.8	205.6	435.5	712.4	736.5	1103.3	4880.3	5103.7	4732.8	3592.0
75°	128.4	117.5	112.2	159.5	685.0	760.7	703.1	3358.1	3519.7	3173.3	2208.0
77.5°	121.9	108.9	99.6	99.9	289.6	806.7	595.5	1858.7	1905.7	1433.3	605.0
80°	101.0	88.9	82.4	92.9	140.1	768.2	643.9	841.2	771.9	352.0	201.4
82.5°	70.1	63.8	62.1	78.0	112.2	547.4	748.8	451.9	378.9	176.2	124.2
85°	44.7	38.2	42.4	56.8	87.3	252.7	771.4	352.3	280.1	112.0	70.1
87.5°	20.8	16.8	20.9	31.4	57.0	87.0	733.9	395.8	288.4	59.1	44.1
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°	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1144.6	1139.6	1135.6	1128.4	1120.2	1112.5	1105.4	1096.4	1093.9	1091.5	1095.2
5°	1148.3	1143.3	1128.9	1106.4	1081.5	1058.3	1034.9	1015.1	1002.8	996.0	1000.0
7.5°	1153.8	1146.6	1116.9	1075.5	1030.7	990.0	947.9	914.1	889.3	877.6	880.9
10°	1158.8	1145.1	1096.4	1034.5	969.0	908.4	841.9	787.0	746.2	724.8	730.1
12.5°	1160.8	1139.1	1067.9	983.1	893.5	804.5	706.7	624.6	566.0	544.6	540.2
15°	1162.9	1132.3	1036.6	924.9	802.1	676.3	539.3	441.0	392.3	381.6	379.3
17.5°	1163.3	1120.5	1001.0	861.6	695.2	523.9	368.8	306.3	306.5	323.7	325.8
20°	1157.9	1102.9	957.9	782.9	567.1	362.2	253.2	242.5	282.0	325.0	330.3
22.5°	1145.3	1079.8	908.9	691.1	420.3	238.5	195.9	207.7	258.7	311.5	317.6
25°	1129.3	1051.5	851.1	584.5	278.3	170.6	164.3	178.7	213.2	248.6	251.9
27.5°	1107.7	1018.0	786.2	462.6	180.6	140.4	144.6	154.2	168.4	184.2	185.7
30°	1079.8	978.0	716.9	337.5	136.5	126.3	132.3	137.6	143.5	152.5	153.3
32.5°	1047.6	939.4	645.8	233.0	121.1	119.0	123.7	126.3	131.1	136.5	137.0
35°	1020.6	902.8	572.0	164.7	114.5	113.5	116.7	117.7	122.2	128.2	128.6
37.5°	1005.2	873.1	496.0	132.9	110.1	108.5	110.4	110.4	116.7	125.6	126.8
40°	1006.2	856.7	419.8	120.1	106.4	104.4	104.7	104.7	112.7	122.3	123.2
42.5°	1034.7	860.8	352.3	115.2	103.6	101.1	99.9	100.7	107.4	113.7	114.4
45°	1101.7	890.3	289.1	112.0	100.7	99.9	97.0	96.7	99.4	102.2	102.2
47.5°	1211.5	948.7	246.1	109.9	98.4	98.1	94.7	91.3	91.0	92.0	92.0
50°	1390.1	1049.1	217.4	107.4	96.7	94.7	90.8	85.5	83.7	84.5	84.5
52.5°	1658.0	1228.3	206.4	104.4	93.3	90.0	85.5	80.3	78.7	79.1	79.1
55°	2009.2	1503.5	204.9	100.7	89.7	84.3	80.6	76.6	74.7	75.3	75.3
57.5°	2438.4	1883.9	232.8	95.0	84.7	78.4	76.4	73.8	72.5	73.2	73.0
60°	2960.3	2381.9	345.3	88.9	79.8	73.2	73.2	71.1	70.1	70.8	70.6
62.5°	3561.3	2953.9	485.4	84.5	74.5	69.1	70.1	69.1	68.0	68.5	68.4
65°	4094.4	3326.8	454.6	81.0	69.3	65.1	67.0	66.5	65.7	66.1	65.9
67.5°	4109.8	3188.7	255.3	77.4	64.4	61.3	63.8	63.6	63.1	63.6	63.3
70°	3667.8	2692.5	143.9	70.6	59.1	56.6	60.1	59.8	59.4	60.5	60.1
72.5°	2938.5	1953.9	105.1	62.3	53.9	51.6	55.8	55.4	55.4	57.0	56.2
75°	1691.0	1005.5	83.9	53.4	48.4	46.5	50.2	50.5	51.1	53.1	51.6
77.5°	482.0	313.4	68.5	45.3	41.6	40.9	44.5	44.9	45.3	47.6	45.5
80°	179.1	144.4	56.6	37.9	34.0	34.2	37.6	38.4	38.6	41.1	38.4
82.5°	114.4	95.2	45.8	29.3	26.7	26.4	30.6	31.6	31.6	31.9	30.4
85°	66.7	57.0	34.6	21.2	18.9	18.1	22.7	24.7	23.9	23.3	22.3
87.5°	44.7	39.3	21.2	11.8	10.2	9.7	13.4	14.6	14.2	13.4	12.5
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)