

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: P299099

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299099
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: GLNA-AF-01-LED-E1-SL2-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6084.3 lumens
Efficiency: N/A
Efficacy: 103.1 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

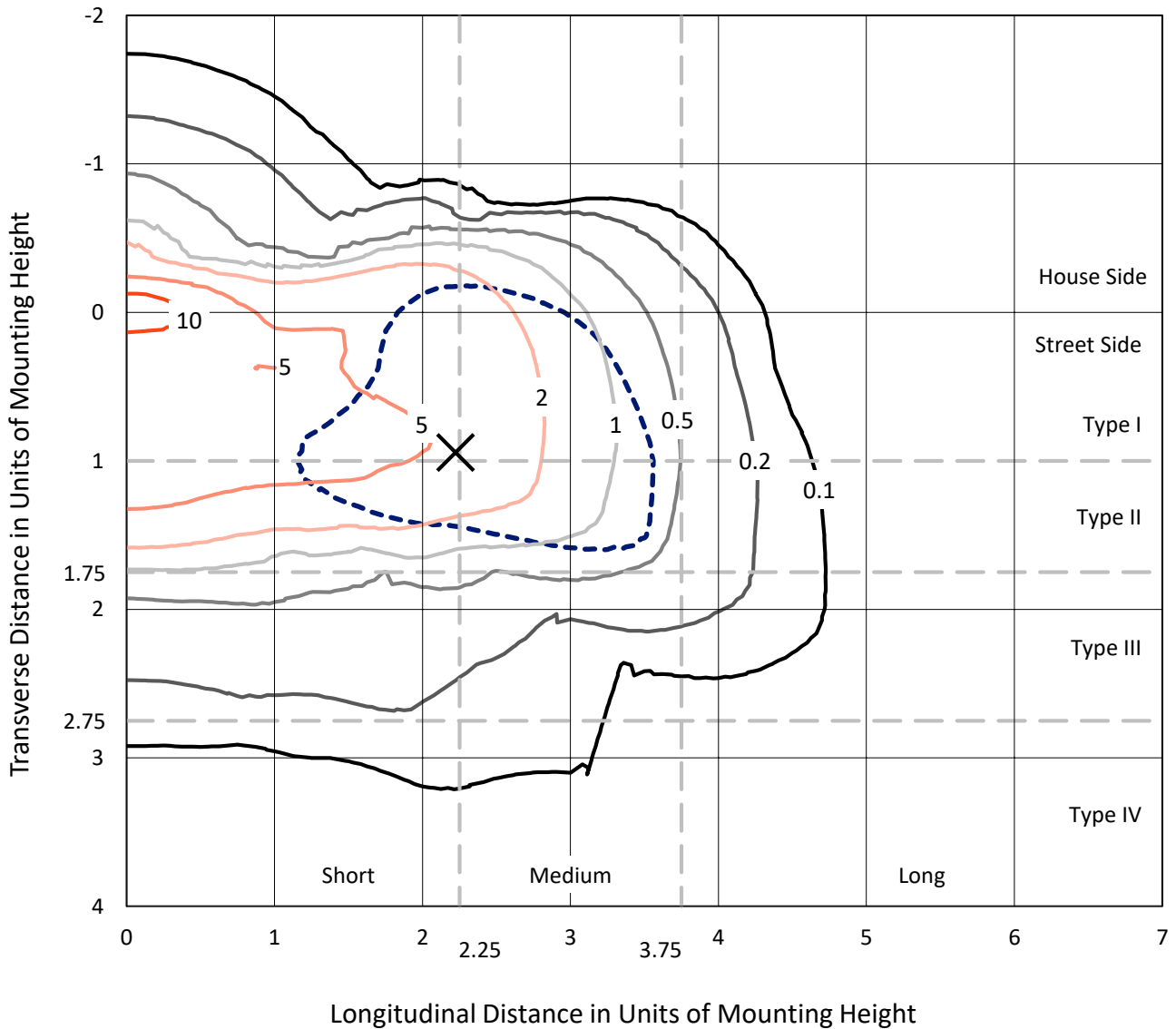
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

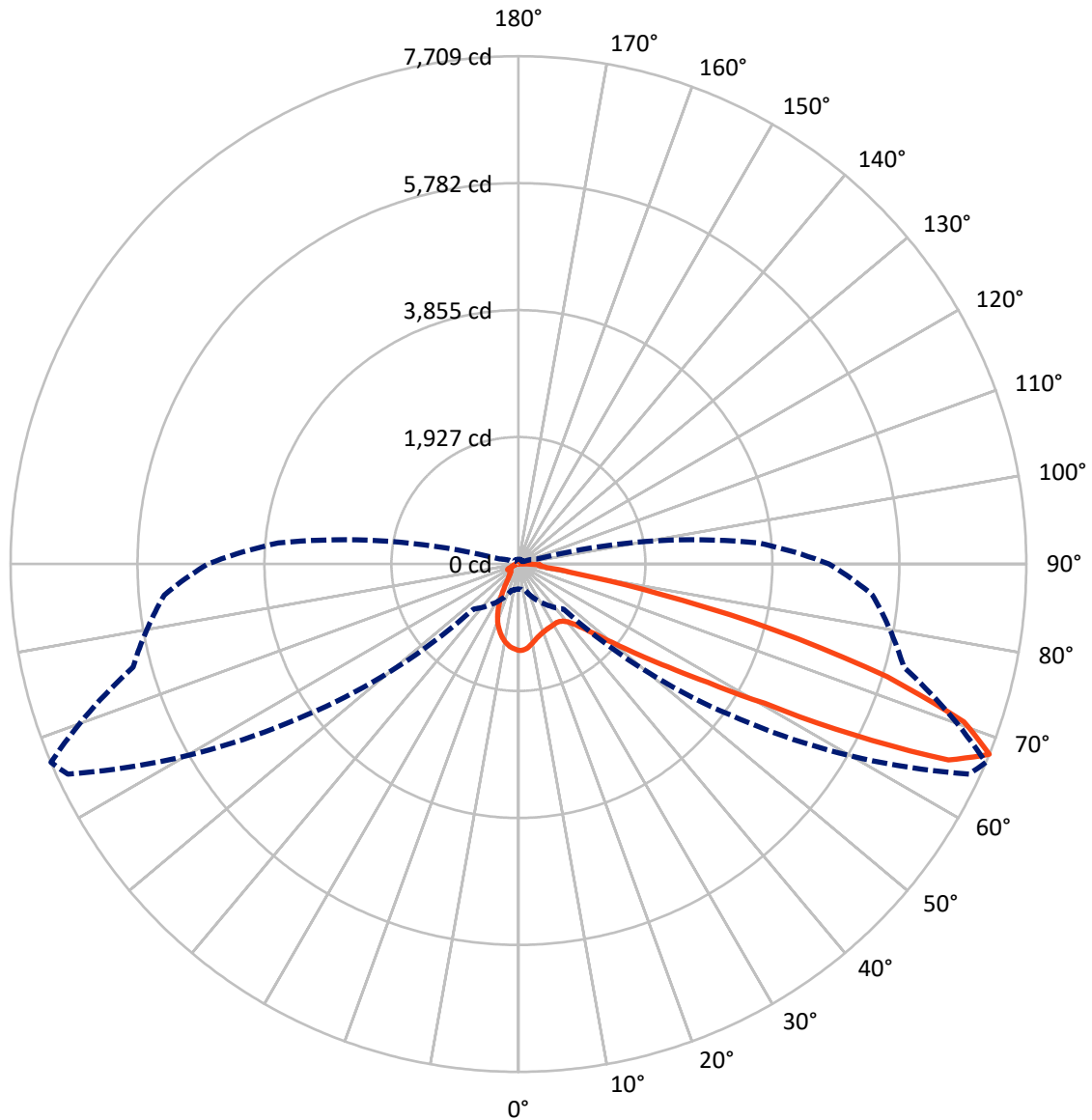
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	1008.1	0.0	1008.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	5076.2	0.0	5076.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	6084.3	0.0	6084.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.8
10°-20°	259.1	4.3
20°-30°	351.2	5.8
30°-40°	499.2	8.2
40°-50°	835.2	13.7
50°-60°	1321.3	21.7
60°-70°	1683.2	27.7
70°-80°	881.7	14.5
80°-90°	141.4	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°	6084.3	100.0
0°-180°	6084.3	100.0



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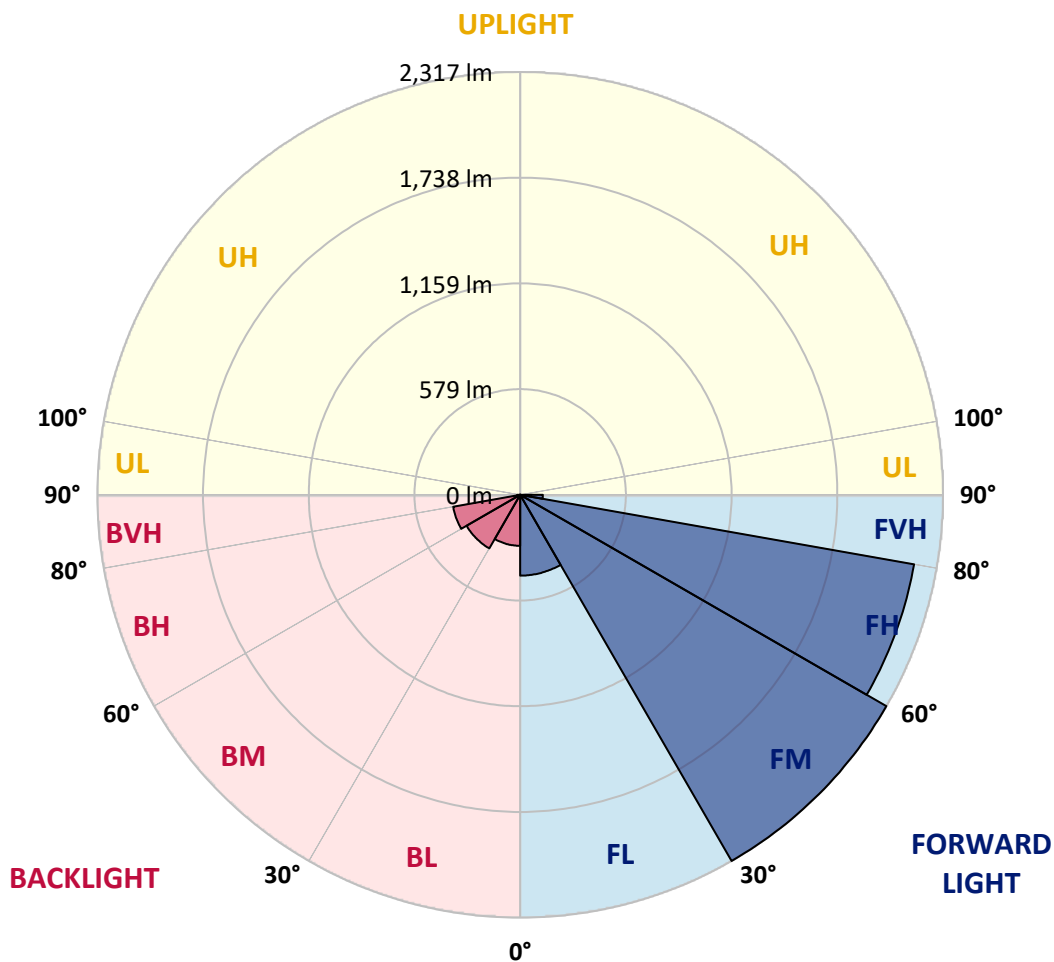
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.8	7.3			
FM (30°-60°)	2317.0	38.1			
FH (60°-80°)	2192.1	36.0			G2/5000
FVH (80°-90°)	124.3	2.0			G2/225
BL (0°-30°)	279.4	4.6	B1/500		
BM (30°-60°)	338.7	5.6	B1/1000		
BH (60°-80°)	372.9	6.1	B1/500		G1/500
BVH (80°-90°)	17.1	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°	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4
2.5°	1258.4	1260.5	1267.1	1271.3	1290.2	1298.3	1304.0	1309.7	1310.6	1313.3	1310.6
5°	1126.3	1130.8	1143.1	1157.0	1193.6	1222.4	1252.7	1284.2	1289.9	1310.3	1316.0
7.5°	1024.0	1022.8	1033.0	1049.5	1087.0	1126.9	1180.1	1242.8	1255.1	1301.0	1323.2
10°	949.3	948.4	959.2	976.3	1012.0	1049.8	1109.8	1195.7	1213.1	1286.3	1330.1
12.5°	894.1	894.4	905.2	924.1	960.4	998.5	1059.4	1150.1	1172.3	1269.2	1337.3
15°	857.5	859.9	868.6	888.7	924.1	962.2	1021.9	1115.8	1140.7	1255.7	1345.4
17.5°	845.2	849.1	852.1	866.8	897.1	935.2	993.7	1090.6	1117.0	1246.4	1352.6
20°	856.6	861.1	855.4	860.5	879.7	913.3	971.5	1070.8	1097.8	1235.9	1353.5
22.5°	905.5	909.7	892.9	878.2	877.0	897.4	953.2	1055.2	1083.1	1228.1	1353.8
25°	991.6	994.3	966.1	931.9	898.6	891.7	940.3	1044.4	1074.1	1221.2	1348.1
27.5°	1097.2	1099.3	1066.9	1016.5	949.6	905.2	935.8	1038.1	1069.0	1215.2	1338.5
30°	1225.7	1235.6	1192.1	1128.4	1030.9	945.1	944.8	1034.8	1063.3	1205.0	1319.6
32.5°	1357.1	1361.3	1331.3	1266.8	1140.4	1015.3	970.0	1037.2	1061.8	1192.7	1295.6
35°	1490.3	1495.7	1476.2	1424.3	1290.2	1118.2	1019.2	1051.3	1071.1	1188.5	1278.8
37.5°	1662.8	1670.0	1643.0	1583.0	1472.3	1257.8	1101.1	1086.7	1099.6	1200.5	1273.7
40°	1935.6	1932.3	1853.3	1763.9	1671.5	1436.3	1218.2	1146.8	1154.3	1239.2	1289.3
42.5°	2253.0	2244.9	2109.0	1968.6	1890.5	1652.3	1373.0	1250.9	1249.4	1315.4	1344.2
45°	2506.2	2499.6	2377.2	2204.1	2141.7	1898.3	1573.1	1406.0	1394.9	1436.3	1445.6
47.5°	2643.3	2643.6	2573.1	2431.8	2430.3	2211.0	1830.2	1630.4	1611.2	1630.7	1620.8
50°	2595.3	2601.6	2594.1	2549.1	2693.8	2620.8	2166.0	1943.4	1904.6	1923.9	1885.7
52.5°	2363.1	2371.2	2415.6	2484.6	2804.5	3116.2	2659.2	2332.2	2287.2	2280.3	2238.0
55°	1951.5	1961.4	2052.0	2239.5	2712.4	3449.0	3437.6	2827.9	2756.2	2691.1	2673.1
57.5°	1345.1	1361.6	1507.4	1785.8	2414.4	3549.5	4364.4	3534.5	3388.6	3161.2	3165.4
60°	758.2	777.4	949.3	1202.3	1813.1	3440.3	5069.5	4604.7	4296.9	3711.8	3743.0
62.5°	482.2	502.9	633.4	835.3	1087.9	2852.2	5358.4	6092.6	5701.6	4390.5	4421.1
65°	390.4	399.4	460.9	689.5	790.0	1718.3	5139.1	7318.3	7172.4	5251.9	5109.1
67.5°	381.0	384.1	415.9	578.8	757.6	965.8	4099.1	7547.5	7709.2	6056.3	5395.6
70°	376.5	387.1	468.7	552.4	725.5	814.6	2463.3	6919.2	7174.5	6266.6	5014.3
72.5°	182.7	182.1	235.8	499.6	817.3	844.9	1265.6	5598.4	5854.7	5429.2	4120.4
75°	147.3	134.7	128.7	183.0	785.8	872.5	806.5	3852.2	4037.6	3640.1	2532.9
77.5°	139.8	124.8	114.3	114.6	332.1	925.3	683.2	2132.1	2186.1	1644.2	694.0
80°	115.8	102.0	94.5	106.5	160.8	881.2	738.7	964.9	885.4	403.9	231.0
82.5°	80.4	73.2	71.1	89.4	128.7	628.0	859.0	518.5	434.8	202.2	142.5
85°	51.3	43.8	48.6	65.1	100.2	289.8	884.8	404.2	321.3	128.4	80.4
87.5°	23.7	19.2	24.0	36.0	65.4	99.9	841.9	454.0	330.9	67.8	50.7
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°	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4
2.5°	1313.0	1307.3	1302.8	1294.4	1285.1	1276.1	1268.0	1257.8	1254.8	1252.1	1256.3
5°	1317.2	1311.5	1295.0	1269.2	1240.7	1214.0	1187.3	1164.5	1150.4	1142.5	1147.1
7.5°	1323.5	1315.4	1281.2	1233.8	1182.5	1135.6	1087.3	1048.6	1020.1	1006.6	1010.5
10°	1329.2	1313.6	1257.8	1186.7	1111.6	1042.0	965.8	902.8	856.0	831.4	837.4
12.5°	1331.6	1306.7	1225.1	1127.8	1024.9	922.9	810.7	716.5	649.3	624.7	619.6
15°	1334.0	1298.9	1189.1	1060.9	920.2	775.9	618.7	505.9	450.1	437.8	435.1
17.5°	1334.6	1285.4	1148.3	988.3	797.5	601.0	423.1	351.3	351.6	371.4	373.8
20°	1328.3	1265.3	1098.7	898.0	650.5	415.6	290.4	278.1	323.4	372.9	378.9
22.5°	1313.9	1238.6	1042.6	792.7	482.2	273.6	224.7	238.2	296.7	357.3	364.2
25°	1295.6	1206.2	976.3	670.6	319.2	195.6	188.4	204.9	244.5	285.0	288.9
27.5°	1270.7	1167.8	901.9	530.8	207.3	161.1	165.9	177.0	193.2	211.2	213.0
30°	1238.6	1121.8	822.4	387.1	156.6	144.9	151.8	157.8	164.7	174.9	175.8
32.5°	1201.7	1077.7	740.8	267.3	138.9	136.5	141.9	144.9	150.3	156.6	157.2
35°	1170.8	1035.7	656.2	189.0	131.4	130.2	133.8	135.0	140.1	147.0	147.6
37.5°	1153.1	1001.5	568.9	152.4	126.3	124.5	126.6	126.6	133.8	144.0	145.5
40°	1154.3	982.6	481.6	137.7	122.1	119.7	120.0	120.0	129.3	140.4	141.3
42.5°	1187.0	987.4	404.2	132.0	118.8	116.1	114.6	115.5	123.3	130.5	131.1
45°	1263.8	1021.3	331.5	128.4	115.5	114.6	111.3	111.0	114.0	117.3	117.3
47.5°	1389.8	1088.2	282.3	126.0	112.8	112.5	108.6	104.7	104.4	105.6	105.6
50°	1594.7	1203.5	249.3	123.3	111.0	108.6	104.1	98.1	96.0	96.9	96.9
52.5°	1901.9	1409.0	236.7	119.7	107.1	103.2	98.1	92.1	90.3	90.6	90.6
55°	2304.9	1724.6	234.9	115.5	102.9	96.6	92.4	87.9	85.8	86.4	86.4
57.5°	2797.3	2161.2	267.0	108.9	97.2	90.0	87.6	84.6	83.1	84.0	83.7
60°	3395.8	2732.5	396.1	102.0	91.5	84.0	84.0	81.6	80.4	81.3	81.0
62.5°	4085.3	3388.6	556.9	96.9	85.5	79.2	80.4	79.2	78.0	78.6	78.3
65°	4696.8	3816.2	521.5	93.0	79.5	74.7	76.8	76.2	75.3	75.9	75.6
67.5°	4714.5	3657.8	292.8	88.8	73.8	70.2	73.2	72.9	72.3	72.9	72.6
70°	4207.5	3088.6	165.0	81.0	67.8	64.8	69.0	68.7	68.1	69.3	69.0
72.5°	3370.9	2241.3	120.6	71.4	61.8	59.1	63.9	63.6	63.6	65.4	64.5
75°	1939.8	1153.4	96.3	61.2	55.5	53.4	57.6	57.9	58.5	60.9	59.1
77.5°	553.0	359.4	78.6	51.9	47.7	46.8	51.0	51.6	51.9	54.6	52.2
80°	205.5	165.6	64.8	43.5	39.0	39.3	43.2	44.1	44.4	47.1	44.1
82.5°	131.1	109.2	52.5	33.6	30.6	30.3	35.1	36.3	36.3	36.6	34.8
85°	76.5	65.4	39.6	24.3	21.6	20.7	26.1	28.2	27.3	26.7	25.5
87.5°	51.3	45.0	24.3	13.5	11.7	11.1	15.3	16.8	16.2	15.3	14.4
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)