

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: P199973

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4968 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

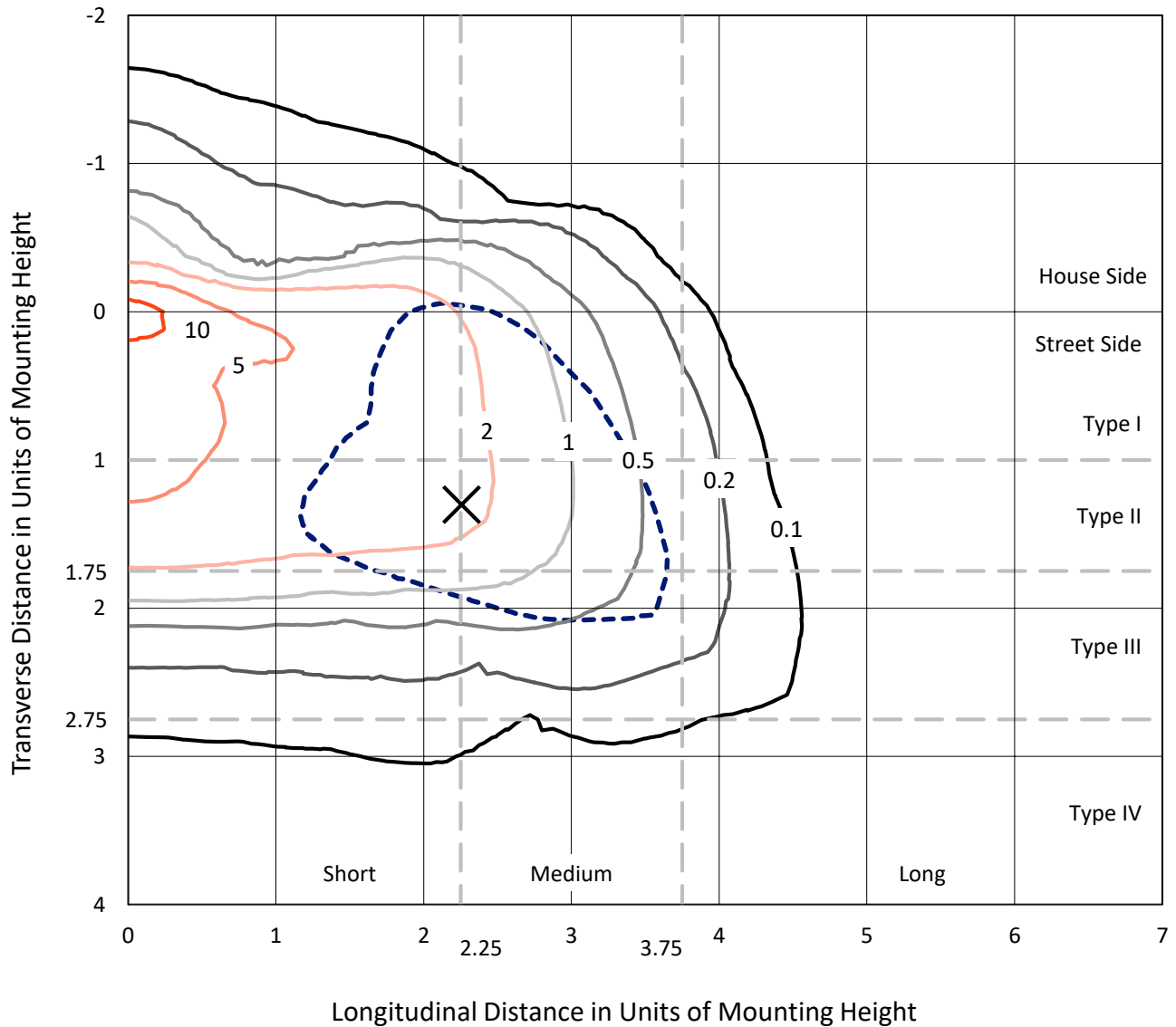
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

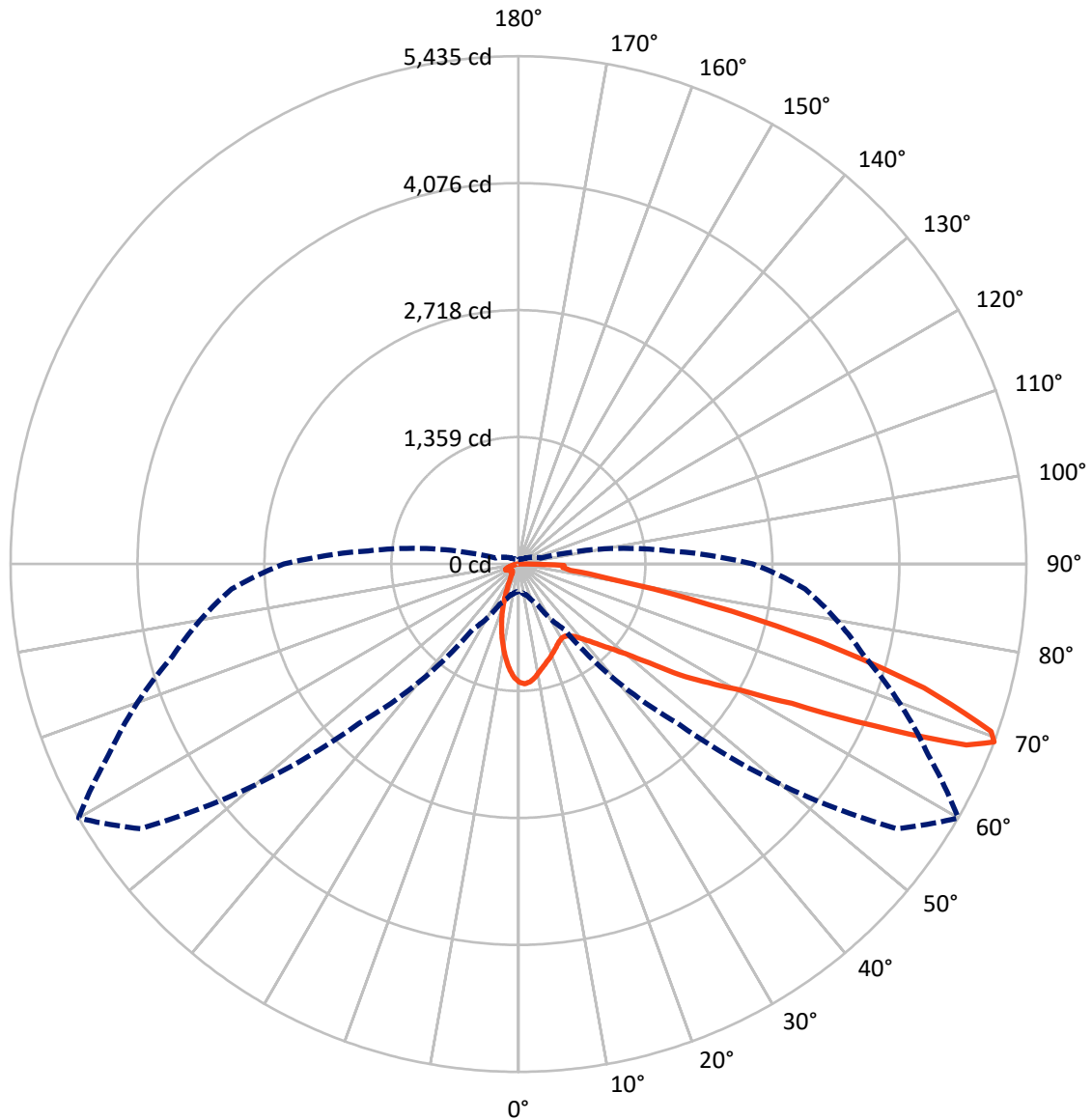
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	706.8	0.0	706.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4261.2	0.0	4261.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	4968.0	0.0	4968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	2.2
10°-20°	228.1	4.6
20°-30°	290.6	5.8
30°-40°	399.5	8.0
40°-50°	648.2	13.0
50°-60°	1039.5	20.9
60°-70°	1383.5	27.8
70°-80°	747.0	15.0
80°-90°	124.7	2.5
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°	4968.0	100.0
0°-180°	4968.0	100.0



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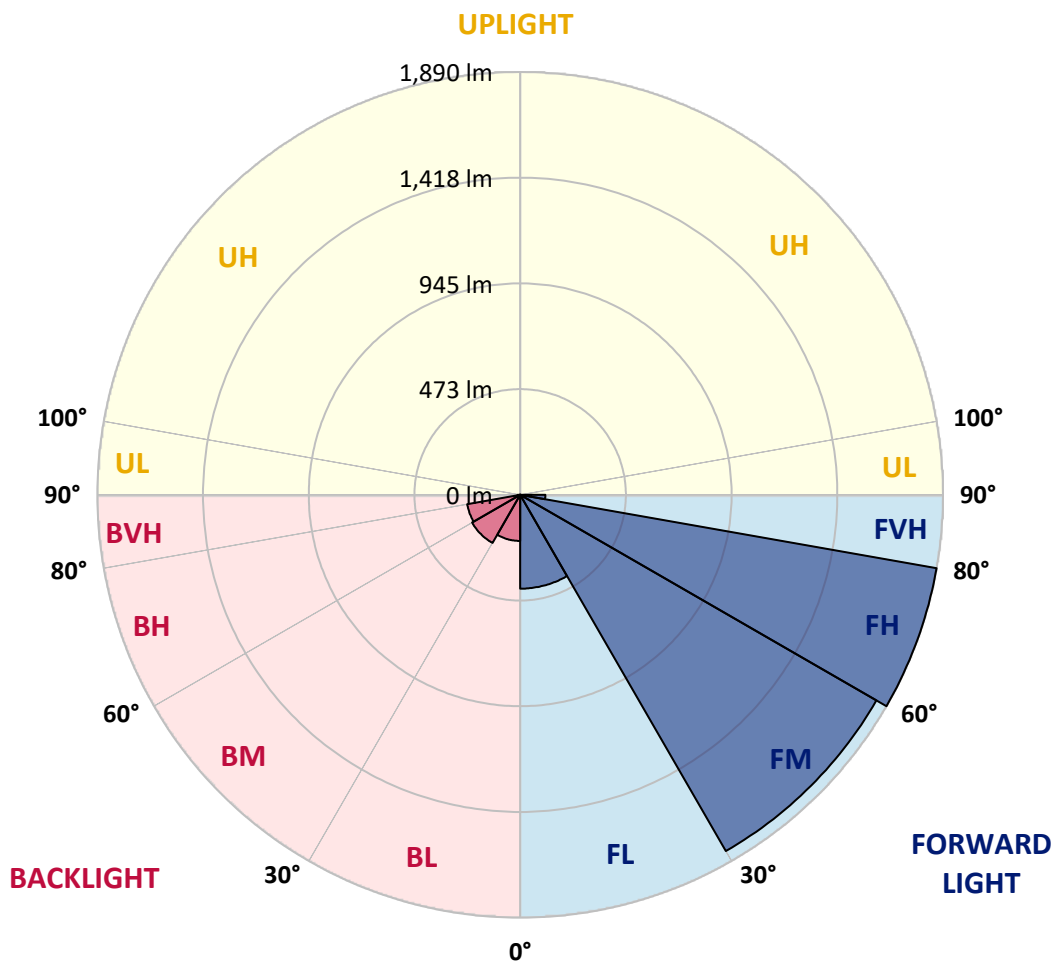
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.5	8.4			
FM (30°-60°)	1838.9	37.0			
FH (60°-80°)	1890.2	38.0			G2/5000
FVH (80°-90°)	112.6	2.3			G2/225
BL (0°-30°)	206.2	4.2	B1/500		
BM (30°-60°)	248.3	5.0	B1/1000		
BH (60°-80°)	240.3	4.8	B1/500		G1/500
BVH (80°-90°)	12.0	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1291.9	1294.7	1293.5	1292.7	1294.9	1291.6	1284.7	1282.4	1279.1	1271.2	1257.8
5°	1243.4	1252.0	1251.6	1258.0	1268.8	1271.7	1268.6	1269.0	1262.8	1252.9	1230.7
7.5°	1159.6	1163.2	1165.1	1179.4	1199.0	1214.9	1228.3	1232.6	1229.7	1221.3	1192.4
10°	1073.3	1076.1	1080.7	1097.2	1122.2	1144.1	1169.4	1184.1	1190.4	1188.8	1156.7
12.5°	999.0	1001.9	1007.9	1026.7	1056.4	1083.3	1120.2	1138.5	1153.3	1162.3	1127.7
15°	932.6	938.9	944.5	966.2	999.5	1034.8	1076.5	1099.5	1122.6	1142.6	1102.0
17.5°	880.7	886.9	890.4	910.0	945.5	988.8	1037.8	1064.8	1093.5	1126.3	1076.5
20°	850.8	853.7	852.2	863.2	895.2	940.9	999.0	1030.6	1065.3	1110.9	1051.2
22.5°	842.4	842.6	837.4	836.2	856.7	895.4	957.7	995.9	1038.6	1100.8	1029.3
25°	862.7	862.0	847.7	835.9	838.0	860.6	918.0	962.3	1016.3	1098.6	1012.5
27.5°	908.1	910.2	889.0	866.9	845.0	844.2	887.7	934.5	998.1	1108.6	1005.3
30°	971.8	975.3	952.5	924.5	883.4	849.6	875.9	918.0	986.8	1128.8	1004.1
32.5°	1041.4	1045.2	1027.9	998.3	944.5	882.2	884.1	919.4	986.4	1157.5	1012.3
35°	1115.4	1119.8	1110.9	1085.9	1026.2	942.5	915.3	942.7	1001.9	1201.1	1034.1
37.5°	1198.2	1205.0	1207.5	1183.6	1119.8	1021.9	966.4	986.8	1037.2	1261.8	1074.1
40°	1317.5	1326.9	1326.2	1292.1	1227.1	1129.0	1045.4	1050.6	1092.1	1343.1	1138.3
42.5°	1546.0	1547.8	1488.1	1414.1	1345.1	1242.0	1138.5	1134.2	1168.0	1445.7	1232.6
45°	1836.6	1828.7	1695.7	1552.5	1468.5	1371.5	1259.6	1238.6	1264.2	1570.9	1350.7
47.5°	2077.8	2059.5	1891.6	1693.8	1599.0	1512.3	1402.1	1365.0	1379.2	1712.9	1503.3
50°	2161.5	2147.9	2008.7	1811.4	1722.6	1684.2	1577.1	1524.8	1528.7	1882.4	1682.0
52.5°	2143.5	2141.6	2048.7	1889.0	1838.3	1864.7	1825.2	1754.4	1717.1	2070.6	1875.0
55°	2101.0	2105.2	2071.5	1979.1	1970.5	2038.9	2149.5	2097.2	1980.9	2260.5	2074.4
57.5°	1953.4	1964.1	2038.0	2092.7	2183.4	2285.1	2410.7	2395.7	2264.7	2465.7	2311.6
60°	1573.9	1598.4	1796.5	2070.6	2402.5	2720.8	2777.0	2742.3	2557.5	2720.2	2624.7
62.5°	1102.8	1128.2	1363.9	1792.7	2366.5	3212.7	3431.7	3282.4	2978.0	3095.4	3030.1
65°	590.3	602.6	782.7	1243.8	1998.0	3314.2	4388.4	4161.5	3643.7	3557.8	3376.8
67.5°	325.7	332.3	401.3	628.0	1279.7	2918.5	4997.9	5169.3	4475.7	3865.7	3313.8
69°	294.5	300.7	345.8	475.6	856.3	2413.1	4938.4	5435.0	4840.5	3835.2	3080.4
70°	288.0	293.7	334.4	438.4	693.0	1988.9	4739.0	5367.1	4927.4	3726.1	2876.9
72.5°	259.2	265.4	304.9	393.8	592.3	991.6	3753.8	4537.9	4473.6	3230.7	2182.2
75°	241.7	247.5	314.1	385.6	567.0	627.5	2474.7	3344.4	3288.4	2259.9	1176.6
77.5°	103.5	102.9	145.7	326.3	575.5	607.6	1329.8	2089.4	1906.2	966.0	337.9
80°	69.2	68.0	69.2	96.0	527.7	611.0	696.6	1060.5	801.1	246.3	166.5
82.5°	59.5	58.6	60.7	58.6	185.5	697.4	592.3	564.0	380.9	140.0	82.6
85°	40.1	38.4	52.3	52.6	87.6	619.6	667.1	476.4	308.1	83.0	40.8
87.5°	19.2	18.7	30.5	37.1	51.4	251.8	748.5	488.2	310.8	42.5	19.4
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°	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1253.6	1243.8	1234.3	1222.7	1210.7	1197.3	1190.6	1183.9	1182.1	1180.2	1173.6
5°	1219.2	1205.2	1181.2	1154.8	1127.0	1099.8	1079.3	1066.3	1056.4	1051.4	1042.6
7.5°	1174.5	1154.1	1112.1	1066.5	1019.7	977.0	940.0	916.8	894.7	884.4	872.6
10°	1132.0	1101.6	1036.3	969.0	901.8	837.4	776.7	733.6	695.4	674.1	659.1
12.5°	1095.6	1053.8	963.3	872.3	780.2	688.4	597.3	525.7	466.1	434.7	418.6
15°	1060.1	1009.7	894.0	778.5	660.3	535.2	415.6	334.6	285.0	265.4	258.7
17.5°	1027.9	963.3	824.4	684.0	536.4	385.1	279.3	234.7	215.8	209.2	207.1
20°	993.0	916.4	752.1	585.1	407.2	269.3	218.2	198.5	190.7	188.9	187.9
22.5°	959.6	870.5	683.0	479.2	292.6	207.8	187.4	179.3	178.1	179.7	179.7
25°	930.9	829.2	608.3	368.6	214.8	175.0	167.7	165.8	170.5	176.7	177.9
27.5°	909.6	795.3	529.0	272.2	171.1	152.2	151.9	155.0	166.3	178.3	180.8
30°	895.0	763.1	443.9	196.3	143.4	134.0	137.7	144.4	161.0	178.1	182.7
32.5°	887.5	739.3	355.4	151.9	122.9	117.6	124.1	132.2	148.6	164.4	170.5
35°	893.2	721.8	271.9	126.7	108.5	104.4	111.1	119.0	128.6	135.4	140.0
37.5°	914.8	714.9	205.2	113.5	98.7	94.8	100.1	104.7	108.5	110.4	112.5
40°	961.4	722.3	164.4	106.7	93.1	88.3	90.4	92.1	94.5	96.4	97.5
42.5°	1030.0	744.7	147.4	104.2	90.2	83.2	82.8	83.5	86.7	90.2	90.9
45°	1126.0	784.1	146.2	105.9	88.8	79.2	77.0	78.0	82.8	88.3	89.3
47.5°	1248.7	844.0	155.8	110.9	90.0	77.0	73.4	74.7	80.7	88.1	89.3
50°	1397.2	927.8	171.9	118.3	95.3	77.5	72.2	72.9	79.2	87.4	88.6
52.5°	1572.7	1046.6	189.3	125.5	100.8	80.7	73.2	71.6	77.2	84.4	85.9
55°	1767.7	1199.0	207.4	131.9	103.7	84.4	75.1	69.6	73.6	79.6	80.9
57.5°	2007.2	1412.0	238.5	138.2	105.6	87.1	77.0	67.6	69.2	73.4	74.4
60°	2331.5	1713.5	293.5	148.6	110.0	88.1	76.8	66.0	64.6	66.9	67.4
62.5°	2720.0	2040.9	339.4	161.4	117.1	88.8	75.4	64.8	60.7	60.7	61.1
65°	2950.6	2128.5	313.9	172.3	123.1	88.1	73.6	63.6	57.8	55.1	55.4
67.5°	2755.1	1871.9	269.0	174.5	122.9	84.6	71.0	61.4	54.9	51.0	50.6
69°	2510.0	1615.1	248.9	168.7	117.1	80.5	67.6	59.0	52.8	48.5	48.2
70°	2312.5	1458.4	235.7	162.5	110.9	77.2	65.0	57.0	51.2	47.1	46.6
72.5°	1681.4	955.6	201.4	139.7	91.4	64.8	56.2	49.9	45.6	43.1	42.7
75°	840.2	455.7	163.5	113.3	70.0	51.8	46.1	41.7	39.6	39.2	38.9
77.5°	276.0	208.8	116.9	84.4	52.1	40.5	37.1	34.1	33.7	35.1	34.5
80°	151.7	121.4	74.2	55.9	35.5	29.7	29.3	27.7	28.3	30.7	30.3
82.5°	77.2	63.2	45.9	33.7	24.0	21.3	23.3	22.3	23.3	25.4	25.2
85°	38.1	34.5	29.1	20.4	15.9	13.6	16.6	17.3	17.8	19.4	19.4
87.5°	22.1	20.4	15.4	9.7	7.8	7.2	9.7	9.4	11.0	12.0	11.8
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)