

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: P200630

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL4-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7782 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

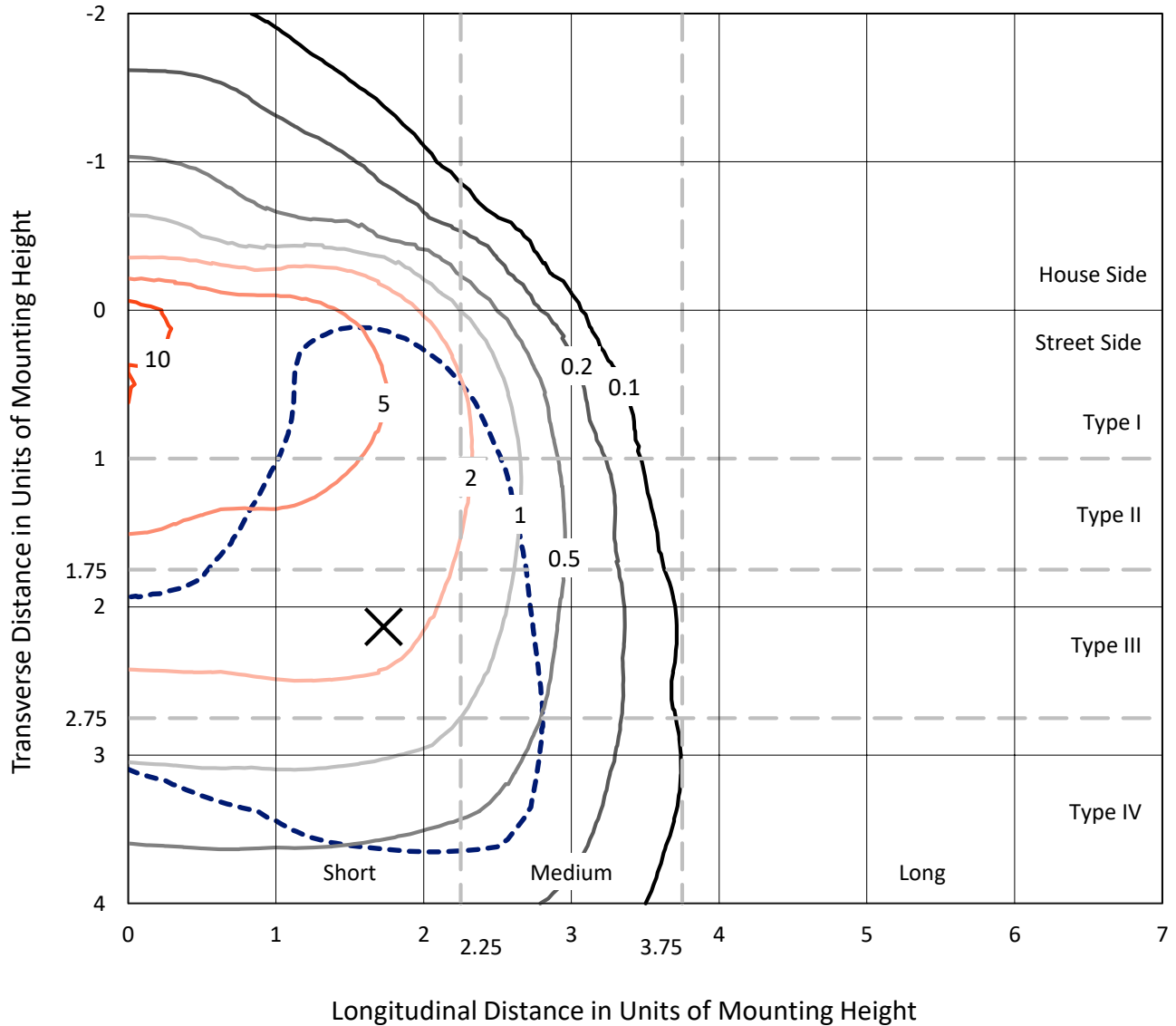
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

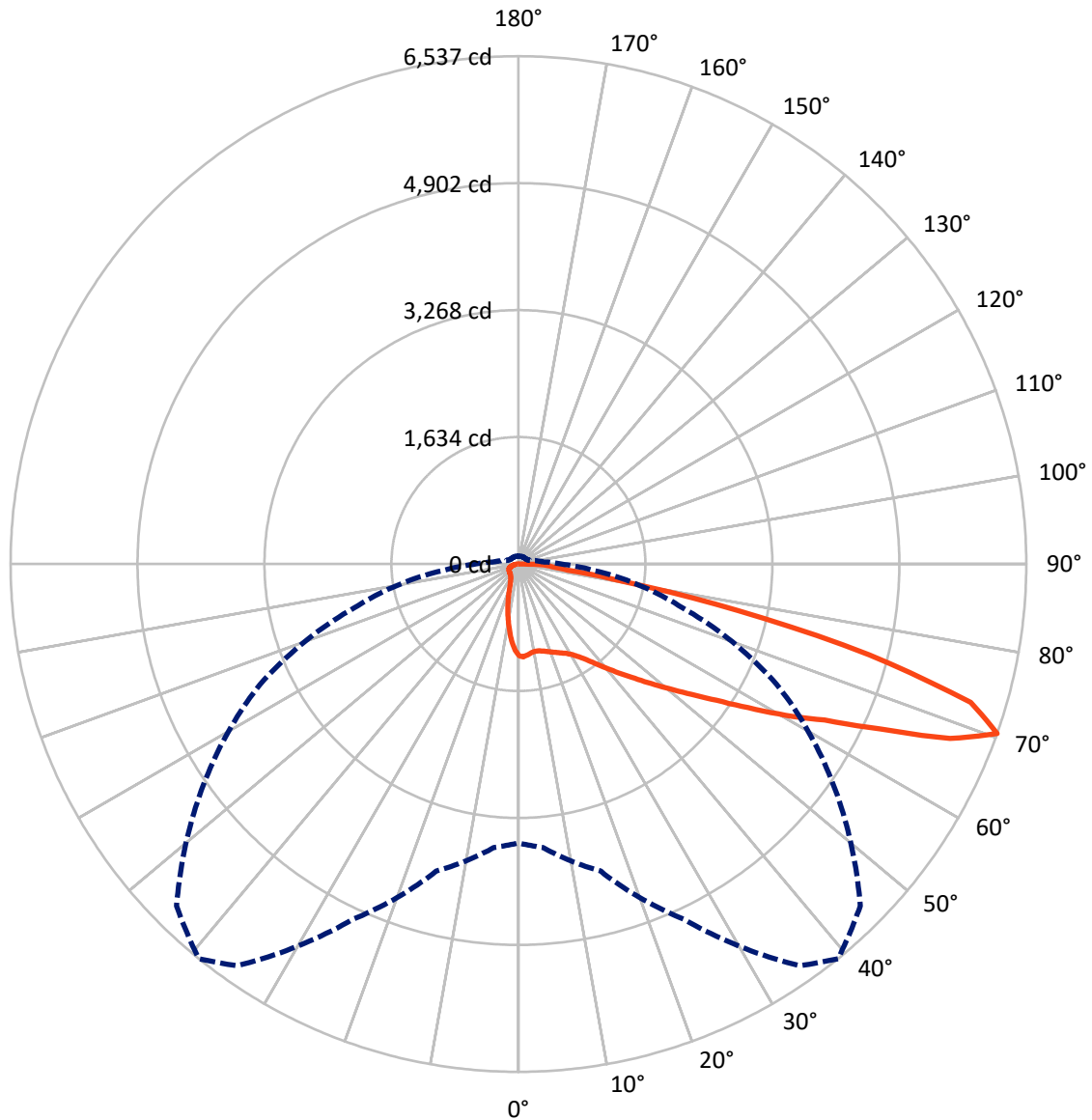
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.1	0.0	885.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	6896.9	0.0	6896.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	7782.0	0.0	7782.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	1.3
10°-20°	253.4	3.3
20°-30°	394.6	5.1
30°-40°	614.7	7.9
40°-50°	1032.0	13.3
50°-60°	1639.4	21.1
60°-70°	2186.8	28.1
70°-80°	1320.6	17.0
80°-90°	239.0	3.1
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°	7782.0	100.0
0°-180°	7782.0	100.0



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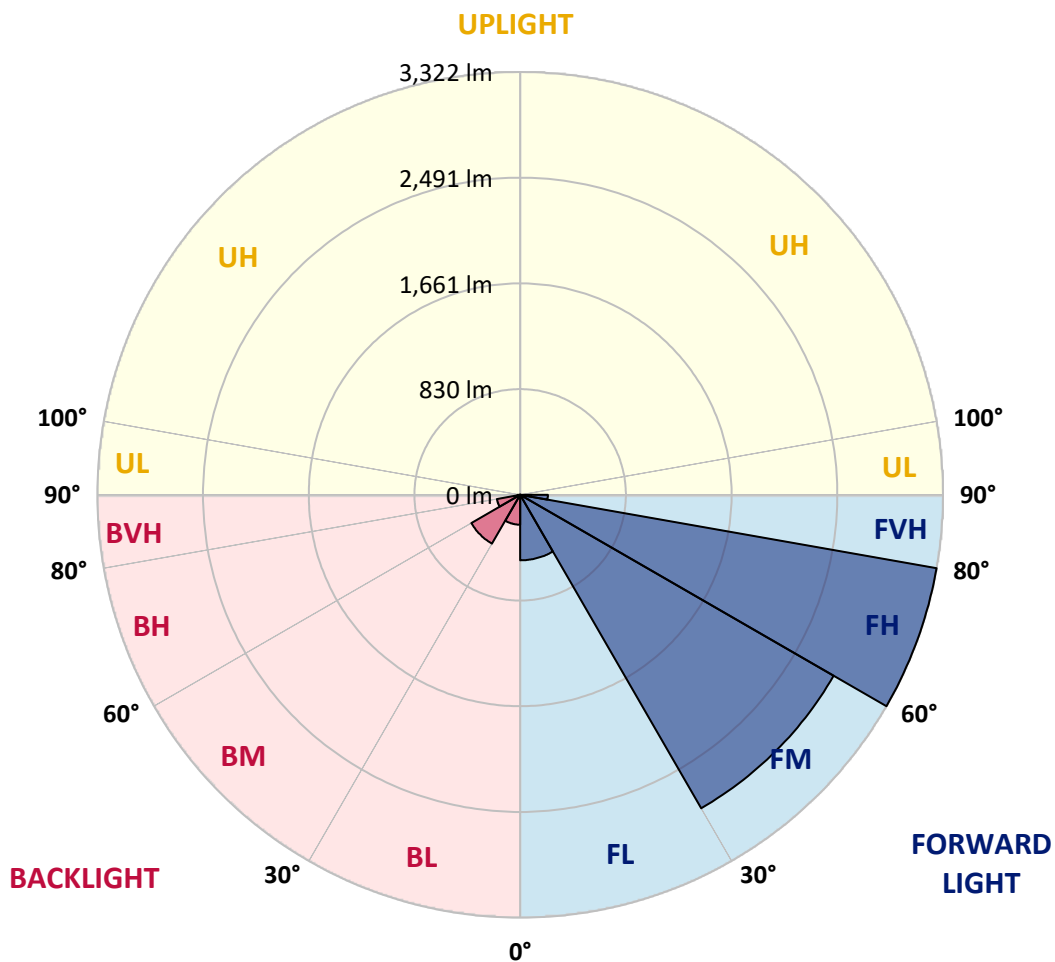
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.6	6.6			
FM	(30°-60°)	2843.2	36.5			
FH	(60°-80°)	3321.6	42.7			G2/5000
FVH	(80°-90°)	217.5	2.8			G2/225
BL	(0°-30°)	234.8	3.0	B1/500		
BM	(30°-60°)	442.9	5.7	B1/1000		
BH	(60°-80°)	185.8	2.4	B1/500		G1/500
BVH	(80°-90°)	21.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1204.4	1204.0	1200.8	1198.4	1196.5	1195.7	1197.3	1191.3	1186.2	1179.8	1173.1
5°	1195.3	1194.9	1189.7	1185.0	1180.2	1178.7	1178.3	1167.6	1161.2	1151.8	1139.1
7.5°	1185.4	1183.4	1176.7	1168.8	1160.5	1156.5	1152.5	1138.7	1131.6	1122.1	1107.4
10°	1175.1	1172.7	1166.4	1158.5	1150.6	1144.6	1137.9	1124.5	1116.9	1109.8	1092.8
12.5°	1164.4	1162.4	1160.9	1157.3	1151.8	1146.6	1141.5	1130.0	1122.1	1113.8	1094.0
15°	1162.8	1162.0	1165.6	1168.0	1164.8	1161.6	1156.1	1146.2	1137.9	1129.6	1103.9
17.5°	1175.5	1175.1	1184.2	1190.5	1188.9	1183.4	1175.9	1164.8	1158.1	1151.0	1118.9
20°	1203.2	1205.2	1216.2	1224.6	1216.6	1208.7	1196.5	1181.0	1177.5	1174.3	1134.3
22.5°	1255.4	1257.4	1265.3	1268.5	1247.9	1236.4	1219.4	1199.6	1197.3	1199.6	1152.9
25°	1336.9	1334.9	1333.8	1321.9	1284.3	1266.5	1244.7	1224.2	1225.3	1236.0	1179.1
27.5°	1444.9	1434.3	1417.6	1382.0	1322.3	1302.5	1276.0	1257.0	1264.5	1285.1	1218.2
30°	1556.9	1545.0	1506.7	1448.5	1372.1	1350.4	1320.7	1299.3	1319.1	1351.6	1270.5
32.5°	1660.6	1659.0	1602.8	1528.0	1441.0	1422.0	1392.3	1368.2	1400.2	1449.7	1348.8
35°	1773.7	1777.3	1710.0	1620.2	1534.0	1514.2	1492.8	1474.6	1517.3	1585.4	1462.3
37.5°	1894.8	1901.9	1822.4	1721.1	1640.0	1631.7	1619.0	1611.1	1677.2	1771.4	1621.0
40°	2056.6	2049.5	1939.1	1835.1	1770.2	1769.8	1765.8	1775.3	1885.3	2014.3	1824.8
42.5°	2229.9	2208.9	2062.9	1957.3	1913.0	1926.4	1934.4	1973.1	2135.8	2309.4	2073.2
45°	2416.7	2369.6	2191.5	2086.7	2071.7	2100.1	2127.0	2211.3	2430.5	2645.4	2345.4
47.5°	2565.8	2520.3	2324.5	2222.4	2255.2	2298.4	2350.2	2483.5	2760.5	2992.3	2614.1
50°	2683.3	2653.7	2458.6	2380.7	2457.4	2523.9	2608.6	2791.7	3103.9	3330.2	2863.0
52.5°	2797.3	2775.1	2593.9	2542.9	2694.8	2786.6	2901.7	3122.5	3456.1	3662.6	3072.3
55°	2900.2	2884.3	2739.5	2745.1	2974.1	3093.6	3238.4	3499.2	3839.8	3958.9	3249.5
57.5°	3016.1	2995.9	2905.7	2998.7	3333.0	3488.1	3676.4	3922.5	4199.9	4222.4	3384.4
60°	3132.8	3115.4	3090.1	3291.5	3788.8	3951.8	4130.3	4332.8	4565.1	4427.0	3376.5
62.5°	3234.1	3236.1	3280.8	3598.9	4235.1	4423.8	4641.4	4841.6	4895.4	4462.6	3126.9
65°	3405.8	3437.1	3570.4	4034.1	4863.4	5115.8	5382.9	5350.8	4986.8	4129.9	2591.5
67.5°	3610.0	3665.0	3935.2	4614.1	5657.5	5992.6	6095.9	5466.0	4620.9	3357.1	1847.3
70°	3589.4	3665.0	4092.7	5046.6	6311.9	6536.6	6223.3	4946.9	3669.3	2193.1	981.2
72.5°	3187.4	3295.4	3771.8	4848.4	6105.8	6086.0	5402.7	3687.9	2180.1	880.7	383.4
75°	2429.3	2538.5	2948.4	3830.3	4825.8	4659.6	3833.5	2037.2	827.3	349.8	241.7
77.5°	1397.5	1482.1	1798.7	2349.0	3061.6	2891.1	2133.8	906.1	402.8	243.7	188.7
80°	780.2	827.3	1019.6	1191.7	1500.3	1375.3	954.7	563.0	300.7	176.9	145.6
82.5°	616.8	658.8	824.5	751.7	685.3	632.3	548.4	501.3	240.2	111.6	87.0
85°	538.9	578.8	697.9	591.9	468.1	429.3	445.5	493.4	186.7	67.3	74.4
87.5°	499.3	552.7	622.0	456.2	364.4	322.9	411.1	540.9	60.1	41.9	30.1
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°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1167.2	1160.9	1150.6	1141.5	1127.2	1119.7	1111.4	1105.5	1100.7	1096.8	1103.1
5°	1131.2	1119.3	1097.5	1074.2	1046.5	1024.7	1006.5	989.5	977.7	969.8	975.3
7.5°	1097.2	1077.8	1043.7	1001.4	953.9	913.6	880.3	851.1	830.9	817.8	823.0
10°	1077.8	1053.6	1001.0	934.5	864.5	801.6	749.4	704.3	673.0	655.2	658.0
12.5°	1073.0	1041.8	969.0	877.6	781.8	694.4	620.8	558.3	514.4	491.4	492.2
15°	1076.6	1036.6	938.9	823.0	701.9	591.5	499.7	423.7	372.7	346.6	346.2
17.5°	1082.5	1032.7	907.2	764.0	620.8	492.6	390.1	315.7	270.6	249.7	248.1
20°	1088.8	1026.3	871.6	700.3	536.5	400.8	305.4	247.3	218.8	207.3	206.5
22.5°	1097.9	1020.8	834.8	633.0	453.8	326.4	251.2	212.1	197.0	191.1	190.3
25°	1112.6	1018.0	795.7	563.0	379.4	273.0	218.8	194.7	186.0	182.0	181.6
27.5°	1137.1	1022.0	758.9	495.0	318.9	237.0	200.6	186.0	179.6	176.1	175.7
30°	1168.8	1034.2	720.1	430.5	271.8	212.5	189.5	180.0	174.9	171.3	171.3
32.5°	1221.4	1054.8	679.3	374.7	238.2	195.5	181.2	174.9	170.5	167.8	167.4
35°	1298.9	1093.6	641.4	328.4	214.0	183.2	174.1	169.3	166.2	164.6	164.6
37.5°	1411.7	1154.9	607.7	295.2	199.4	174.9	167.4	163.8	161.8	161.8	161.8
40°	1563.2	1239.6	580.4	273.0	191.1	168.9	162.2	159.4	158.3	158.7	158.7
42.5°	1750.4	1349.6	562.2	257.6	187.1	165.4	158.7	156.3	155.1	154.7	155.1
45°	1963.6	1474.6	560.2	246.1	183.2	163.0	156.3	153.9	151.5	150.0	150.0
47.5°	2171.0	1601.6	576.5	242.1	178.8	160.2	154.3	151.9	148.4	144.8	144.8
50°	2354.2	1709.6	598.2	243.7	177.3	156.3	151.1	150.0	144.4	140.5	140.1
52.5°	2499.8	1792.7	616.0	248.5	178.8	153.5	147.2	147.6	141.6	137.3	136.9
55°	2616.5	1847.3	611.3	253.2	182.4	151.9	143.6	144.4	139.7	135.3	135.3
57.5°	2667.5	1827.1	558.7	249.3	185.2	152.3	140.9	144.0	140.1	136.1	136.1
60°	2557.9	1647.9	460.1	231.9	181.6	151.1	139.7	145.6	145.2	141.2	140.9
62.5°	2226.4	1327.0	356.9	206.1	169.3	145.2	136.5	145.2	149.6	148.4	148.0
65°	1716.0	945.2	272.6	178.4	152.7	135.3	128.2	136.1	142.0	143.6	143.2
67.5°	1113.8	579.2	210.1	152.3	134.1	123.8	117.5	121.1	122.3	122.3	121.5
70°	547.6	311.8	167.4	128.2	115.1	111.6	108.0	106.0	104.1	102.5	102.5
72.5°	270.2	203.8	137.7	108.4	99.3	97.7	96.9	94.6	93.0	91.0	90.2
75°	199.8	165.8	117.1	91.4	85.5	83.9	85.5	83.5	83.1	81.5	80.7
77.5°	164.2	141.2	100.9	78.3	73.2	70.4	72.8	73.2	73.6	71.2	70.4
80°	133.3	119.5	84.3	64.9	60.1	58.2	59.7	62.9	63.7	60.1	58.6
82.5°	96.1	97.7	68.1	50.6	46.7	45.1	48.3	52.2	53.0	47.9	46.7
85°	80.7	81.5	52.2	36.0	32.0	29.7	34.8	38.8	41.5	36.4	35.2
87.5°	33.6	47.9	30.1	20.2	17.8	15.4	18.6	20.6	24.9	22.9	22.6
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)