

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: P270215

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270215
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-SL4-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 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: 8285.7 lumens
Efficiency: N/A
Efficacy: 96.3 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 - G3

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

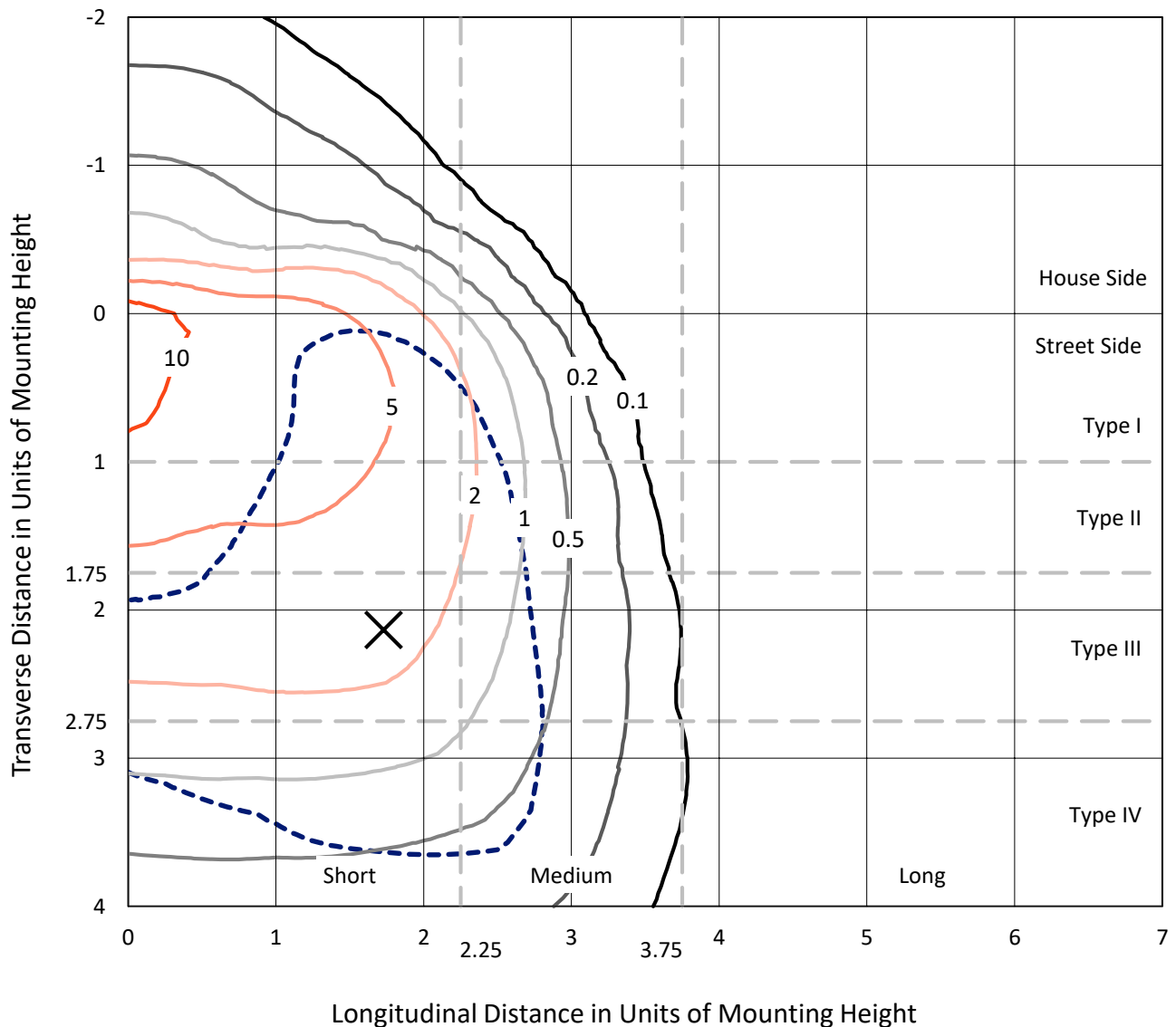


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

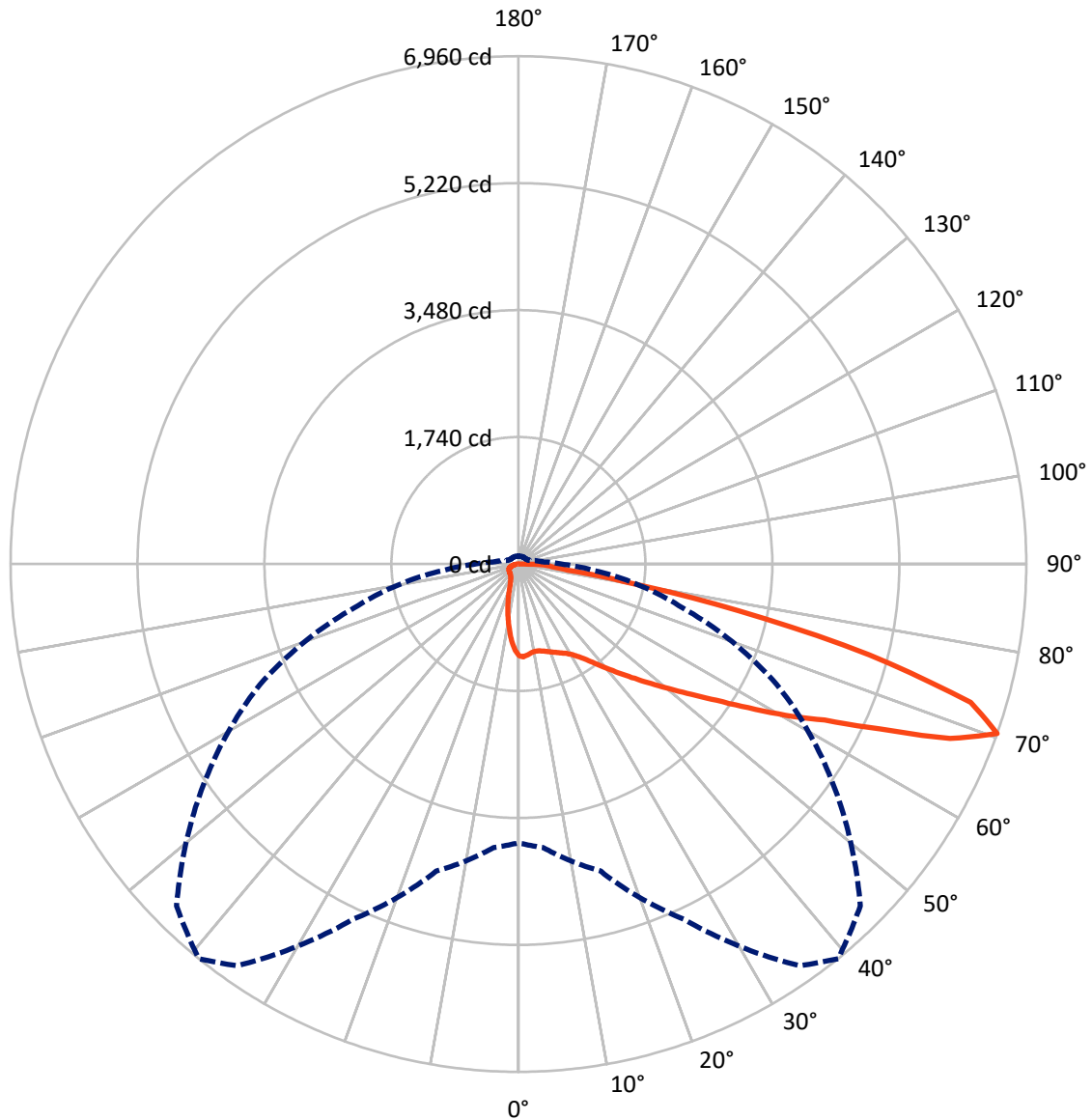


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - Semi-Cutoff

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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	942.4	0.0	942.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	7343.3	0.0	7343.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	8285.7	0.0	8285.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	1.3
10°-20°	269.8	3.3
20°-30°	420.1	5.1
30°-40°	654.5	7.9
40°-50°	1098.8	13.3
50°-60°	1745.5	21.1
60°-70°	2328.4	28.1
70°-80°	1406.0	17.0
80°-90°	254.5	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°	8285.7	100.0
0°-180°	8285.7	100.0



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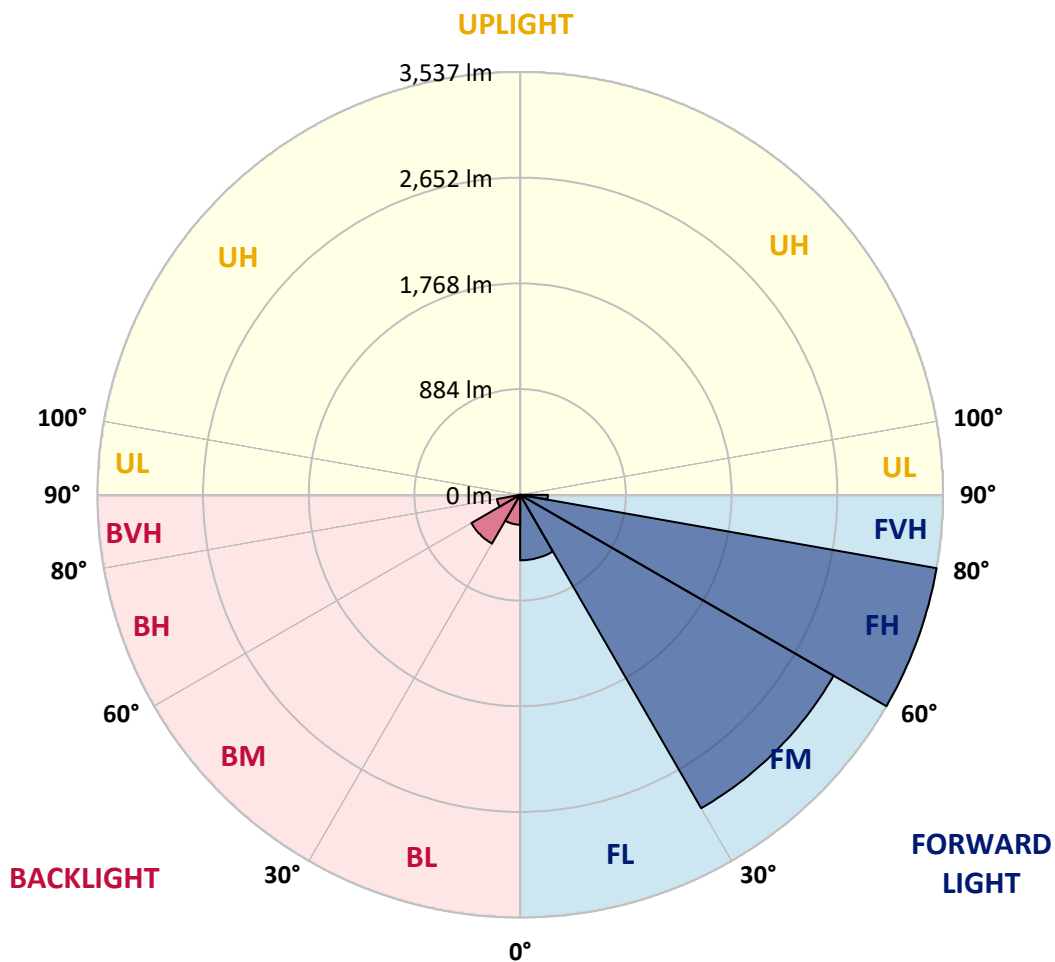
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.9	6.6			
FM	(30°-60°)	3027.3	36.5			
FH	(60°-80°)	3536.6	42.7			G2/5000
FVH	(80°-90°)	231.5	2.8			G3/500
BL	(0°-30°)	250.0	3.0	B1/500		
BM	(30°-60°)	471.6	5.7	B1/1000		
BH	(60°-80°)	197.8	2.4	B1/500		G1/500
BVH	(80°-90°)	22.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8
2.5°	1282.3	1281.9	1278.6	1276.0	1273.8	1273.1	1274.8	1268.4	1262.9	1256.2	1249.1
5°	1272.5	1272.2	1266.7	1261.7	1256.5	1254.9	1254.6	1243.2	1236.3	1226.2	1212.8
7.5°	1262.1	1260.1	1252.9	1244.4	1235.6	1231.3	1227.2	1212.4	1204.7	1194.7	1179.1
10°	1251.2	1248.6	1241.8	1233.5	1225.0	1218.7	1211.5	1197.3	1189.3	1181.6	1163.6
12.5°	1239.8	1237.7	1236.0	1232.1	1226.2	1220.8	1215.3	1203.1	1194.7	1185.9	1164.8
15°	1238.1	1237.2	1241.1	1243.6	1240.2	1236.8	1230.9	1220.3	1211.5	1202.7	1175.3
17.5°	1251.6	1251.2	1260.9	1267.6	1265.9	1260.1	1252.0	1240.2	1233.1	1225.5	1191.3
20°	1281.1	1283.1	1294.9	1303.8	1295.4	1286.9	1273.8	1257.4	1253.7	1250.4	1207.9
22.5°	1336.7	1338.7	1347.2	1350.6	1328.7	1316.5	1298.3	1277.3	1274.8	1277.3	1227.5
25°	1423.5	1421.4	1420.1	1407.5	1367.4	1348.4	1325.3	1303.4	1304.7	1316.0	1255.4
27.5°	1538.4	1527.1	1509.4	1471.5	1407.9	1386.9	1358.5	1338.4	1346.4	1368.3	1297.1
30°	1657.6	1645.1	1604.2	1542.2	1461.0	1437.7	1406.1	1383.4	1404.5	1439.1	1352.7
32.5°	1768.0	1766.3	1706.5	1626.9	1534.2	1514.1	1482.5	1456.7	1490.8	1543.5	1436.1
35°	1888.5	1892.3	1820.8	1725.0	1633.3	1612.2	1589.5	1570.1	1615.5	1688.1	1557.0
37.5°	2017.5	2025.0	1940.2	1832.5	1746.1	1737.3	1723.8	1715.5	1785.7	1886.0	1726.0
40°	2189.7	2182.2	2064.7	1953.9	1884.7	1884.4	1880.2	1890.3	2007.4	2144.7	1942.9
42.5°	2374.2	2351.9	2196.4	2084.0	2036.7	2051.1	2059.5	2100.9	2274.0	2458.9	2207.4
45°	2573.0	2522.9	2333.3	2221.8	2205.8	2236.2	2264.6	2354.5	2587.7	2816.5	2497.3
47.5°	2731.8	2683.4	2474.9	2366.2	2401.2	2447.2	2502.3	2644.3	2939.2	3186.0	2783.3
50°	2857.0	2825.3	2617.8	2534.7	2616.5	2687.2	2777.4	2972.4	3304.9	3545.8	3048.3
52.5°	2978.3	2954.7	2761.7	2707.4	2869.2	2966.9	3089.5	3324.5	3679.7	3899.6	3271.1
55°	3087.8	3071.0	2916.8	2922.7	3166.6	3293.8	3448.1	3725.6	4088.4	4215.1	3459.8
57.5°	3211.4	3189.8	3093.8	3192.8	3548.8	3713.9	3914.4	4176.4	4471.8	4495.7	3603.6
60°	3335.5	3317.0	3290.0	3504.5	4034.0	4207.7	4397.6	4613.2	4860.5	4713.5	3595.0
62.5°	3443.5	3445.4	3493.1	3831.8	4509.2	4710.2	4941.8	5155.1	5212.2	4751.4	3329.3
65°	3626.3	3659.5	3801.4	4295.2	5178.2	5447.0	5731.2	5697.2	5309.6	4397.2	2759.2
67.5°	3843.6	3902.1	4189.9	4912.8	6023.7	6380.4	6490.4	5819.8	4919.9	3574.4	1966.8
70°	3821.7	3902.1	4357.6	5373.2	6720.4	6959.7	6626.1	5267.0	3906.8	2335.1	1044.6
72.5°	3393.6	3508.7	4016.0	5162.2	6500.9	6479.8	5752.3	3926.6	2321.2	937.7	408.2
75°	2586.6	2702.8	3139.2	4078.2	5138.1	4961.2	4081.5	2169.0	880.9	372.3	257.4
77.5°	1488.0	1578.1	1915.0	2501.1	3259.7	3078.2	2271.9	964.7	428.9	259.5	201.0
80°	830.8	880.9	1085.6	1268.9	1597.5	1464.2	1016.5	599.4	320.2	188.4	155.0
82.5°	656.8	701.3	878.0	800.4	729.7	673.2	583.9	533.8	255.7	118.8	92.6
85°	573.7	616.2	743.1	630.3	498.4	457.1	474.3	525.2	198.9	71.7	79.2
87.5°	531.6	588.5	662.2	485.8	388.0	343.7	437.7	575.9	64.0	44.6	32.0
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°	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8	1257.8
2.5°	1242.7	1236.0	1225.0	1215.3	1200.1	1192.2	1183.3	1177.0	1172.0	1167.7	1174.4
5°	1204.4	1191.7	1168.5	1143.7	1114.3	1091.1	1071.7	1053.6	1041.0	1032.5	1038.4
7.5°	1168.2	1147.6	1111.4	1066.2	1015.7	972.8	937.3	906.1	884.7	870.7	876.2
10°	1147.6	1121.9	1065.7	995.1	920.5	853.5	797.9	749.8	716.6	697.7	700.6
12.5°	1142.5	1109.1	1031.7	934.3	832.4	739.3	661.0	594.4	547.6	523.3	524.0
15°	1146.2	1103.7	999.6	876.2	747.3	629.8	532.1	451.2	396.8	369.1	368.7
17.5°	1152.5	1099.4	965.9	813.4	661.0	524.5	415.3	336.1	288.1	265.8	264.1
20°	1159.4	1092.8	928.0	745.7	571.2	426.8	325.2	263.4	233.0	220.8	219.8
22.5°	1169.1	1086.9	888.9	674.0	483.2	347.6	267.4	225.8	209.8	203.5	202.7
25°	1184.5	1084.0	847.1	599.4	404.0	290.7	233.0	207.2	197.9	193.8	193.3
27.5°	1210.7	1088.1	807.9	526.9	339.5	252.3	213.5	197.9	191.2	187.4	187.0
30°	1244.4	1101.2	766.8	458.3	289.4	226.3	201.8	191.7	186.2	182.4	182.4
32.5°	1300.4	1123.2	723.3	398.9	253.6	208.0	193.0	186.2	181.5	178.7	178.3
35°	1383.0	1164.4	682.9	349.6	227.9	195.0	185.4	180.3	177.0	175.3	175.3
37.5°	1503.0	1229.7	647.0	314.2	212.3	186.2	178.3	174.5	172.2	172.2	172.2
40°	1664.4	1319.8	618.0	290.7	203.5	179.9	172.7	169.8	168.5	168.9	168.9
42.5°	1863.7	1436.8	598.6	274.3	199.2	176.1	168.9	166.4	165.2	164.7	165.2
45°	2090.7	1570.1	596.6	262.0	195.0	173.6	166.4	163.9	161.3	159.7	159.7
47.5°	2311.5	1705.3	613.8	257.9	190.4	170.6	164.3	161.8	158.0	154.1	154.1
50°	2506.5	1820.2	637.0	259.5	188.7	166.4	160.9	159.7	153.8	149.6	149.1
52.5°	2661.6	1908.8	655.9	264.6	190.4	163.4	156.8	157.2	150.8	146.2	145.7
55°	2785.9	1966.8	650.8	269.6	194.3	161.8	152.9	153.8	148.7	144.1	144.1
57.5°	2840.1	1945.4	594.8	265.4	197.2	162.1	149.9	153.3	149.1	144.8	144.8
60°	2723.5	1754.6	489.9	246.9	193.3	160.9	148.7	155.0	154.6	150.3	149.9
62.5°	2370.4	1412.9	380.0	219.5	180.3	154.6	145.3	154.6	159.2	158.0	157.6
65°	1827.1	1006.5	290.2	190.0	162.7	144.1	136.5	144.8	151.3	152.9	152.5
67.5°	1185.9	616.7	223.7	162.1	142.8	131.8	125.1	128.8	130.2	130.2	129.4
70°	583.0	332.0	178.3	136.5	122.6	118.8	115.1	112.8	110.9	109.1	109.1
72.5°	287.7	216.9	146.7	115.4	105.7	104.1	103.2	100.7	99.1	96.8	96.1
75°	212.8	176.4	124.7	97.2	91.0	89.3	91.0	88.9	88.5	86.7	86.0
77.5°	174.8	150.3	107.3	83.5	78.0	75.0	77.6	78.0	78.3	75.8	75.0
80°	141.9	127.2	89.7	69.1	64.0	62.0	63.6	67.0	67.8	64.0	62.3
82.5°	102.3	104.1	72.5	53.9	49.6	48.0	51.5	55.7	56.5	50.9	49.6
85°	86.0	86.7	55.7	38.4	34.1	31.6	37.1	41.3	44.2	38.7	37.5
87.5°	35.8	50.9	32.0	21.5	19.0	16.3	19.9	21.9	26.5	24.4	24.1
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)