

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: P193740

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL4-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6517 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

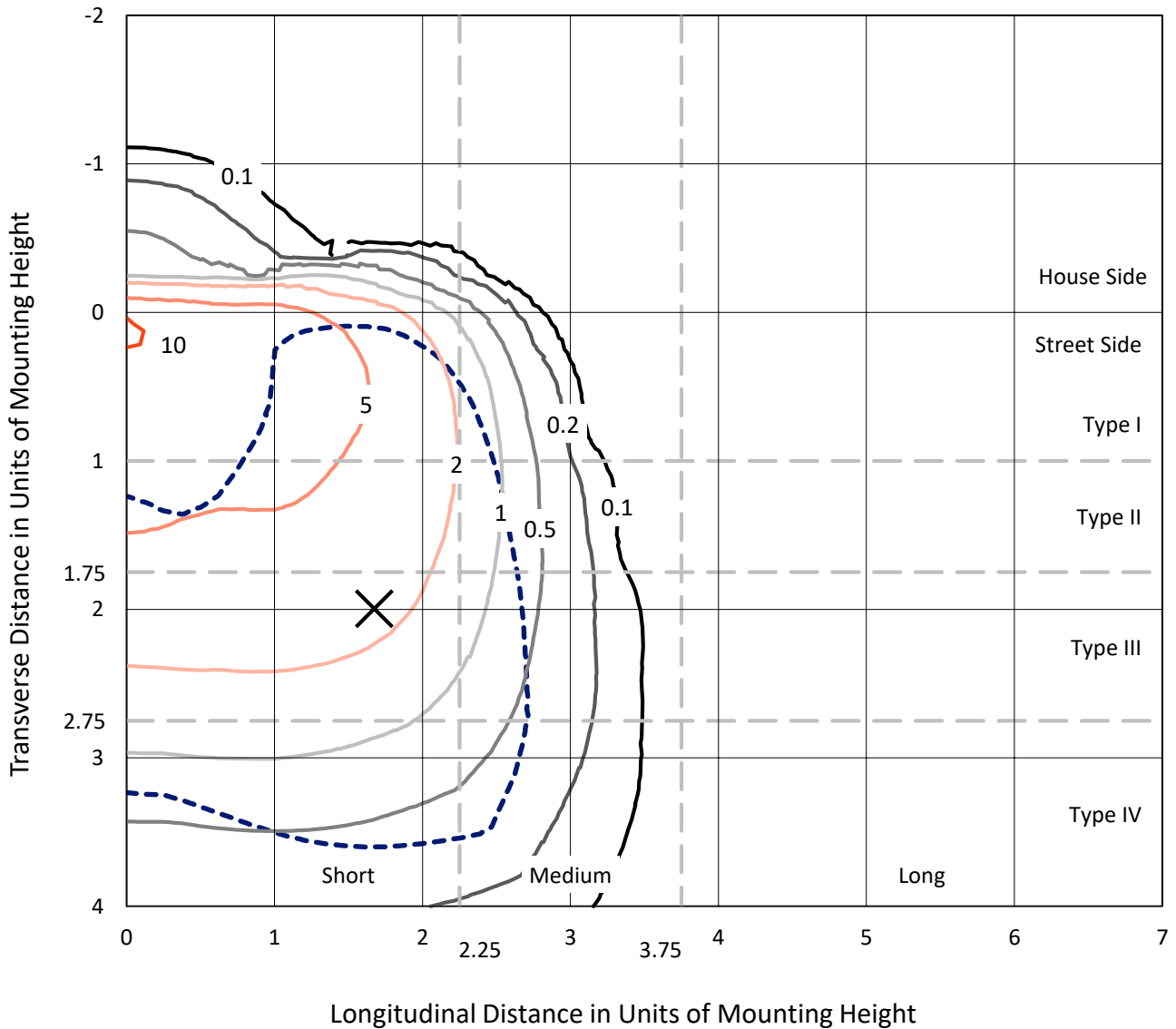


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

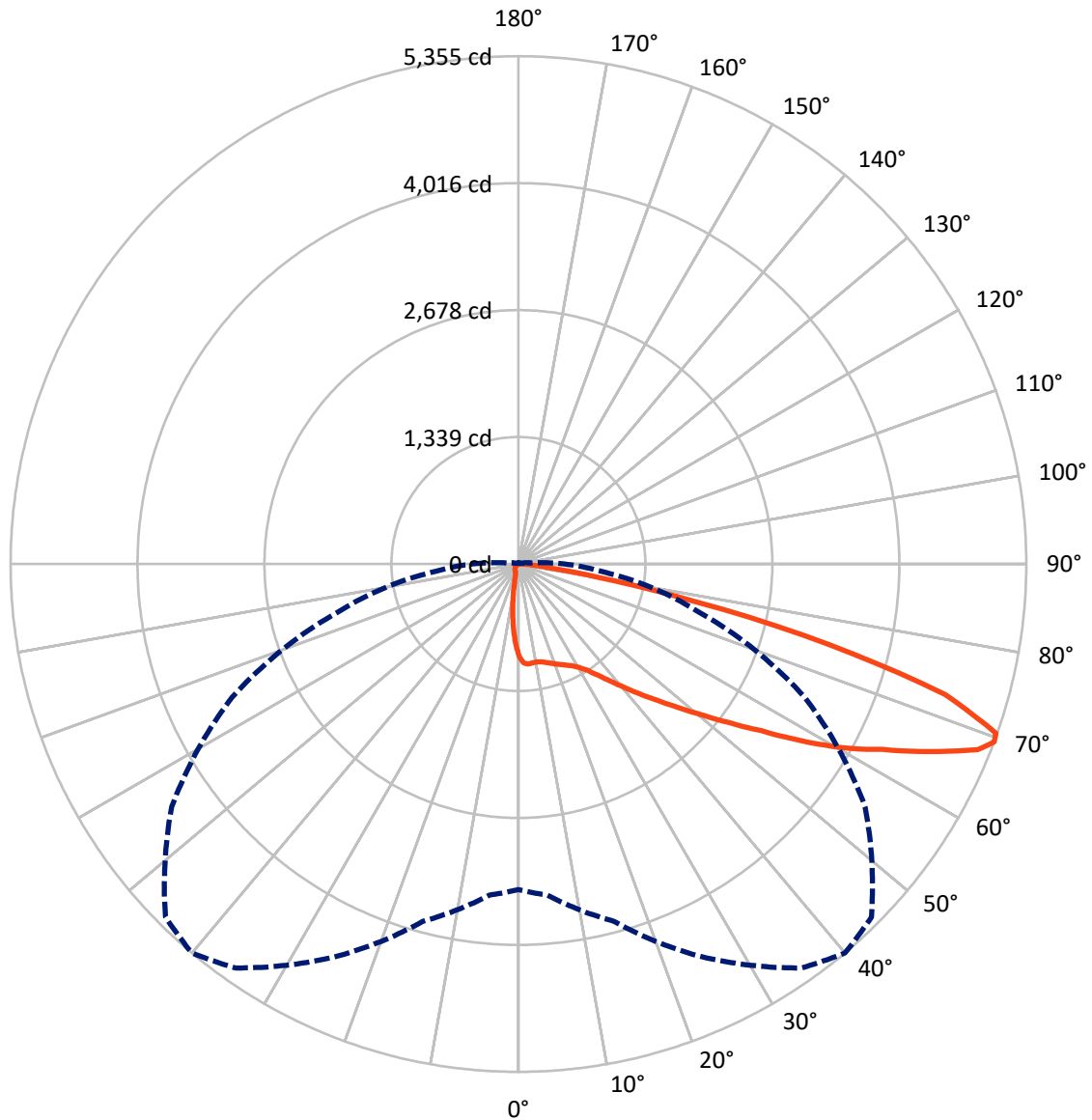


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.3	0.0	381.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	6135.7	0.0	6135.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	6517.0	0.0	6517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.2
10°-20°	194.1	3.0
20°-30°	327.0	5.0
30°-40°	535.3	8.2
40°-50°	926.9	14.2
50°-60°	1459.9	22.4
60°-70°	1906.6	29.3
70°-80°	982.0	15.1
80°-90°	106.2	1.6
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°	6517.0	100.0
0°-180°	6517.0	100.0

Coefficient of Utilization



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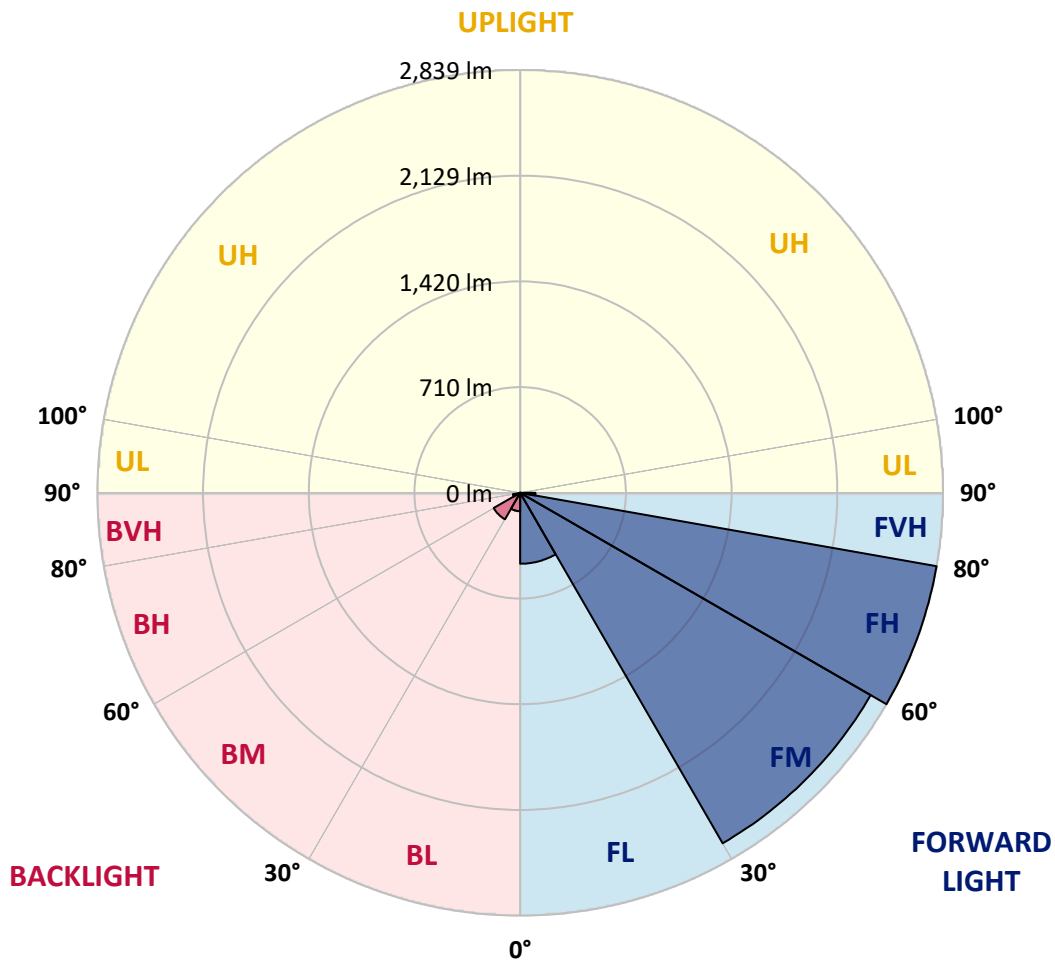
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	476.6	7.3			
FM	(30°-60°)	2717.2	41.7			
FH	(60°-80°)	2839.1	43.6			G2/5000
FVH	(80°-90°)	102.9	1.6			G2/225
BL	(0°-30°)	123.5	1.9	B1/500		
BM	(30°-60°)	204.9	3.1	B0/220		
BH	(60°-80°)	49.5	0.8	B0/110		G0/110
BVH	(80°-90°)	3.3	0.1			G0/10
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°	40°	45°	55°	65°	75°	85°
0°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	1069.1	1063.3	1059.8	1055.1	1049.3	1044.3	1042.3	1028.0	1014.4	995.8	974.4
5°	1088.9	1086.9	1080.7	1074.5	1067.5	1059.8	1055.5	1038.5	1019.1	991.9	954.7
7.5°	1090.8	1088.5	1080.7	1072.2	1062.5	1053.2	1045.8	1028.8	1010.9	983.4	938.0
10°	1087.7	1085.0	1079.2	1069.9	1057.9	1048.9	1041.6	1025.3	1010.1	985.3	934.9
12.5°	1084.2	1081.5	1078.8	1074.1	1063.7	1057.5	1051.3	1035.7	1022.2	1001.2	946.1
15°	1087.7	1086.2	1089.3	1087.3	1081.5	1076.1	1069.9	1055.9	1043.5	1026.0	966.7
17.5°	1102.5	1102.5	1112.2	1113.3	1107.9	1100.1	1091.2	1077.2	1066.8	1052.0	991.1
20°	1137.0	1135.8	1148.2	1150.6	1137.4	1125.3	1112.2	1095.1	1086.9	1077.6	1015.2
22.5°	1196.3	1190.9	1198.3	1196.0	1170.0	1151.3	1135.0	1114.1	1109.8	1105.6	1041.9
25°	1273.5	1270.4	1275.5	1252.6	1206.8	1181.6	1162.2	1138.5	1138.5	1142.8	1072.2
27.5°	1385.6	1374.0	1356.9	1316.6	1247.9	1215.7	1194.8	1169.6	1176.2	1192.1	1112.2
30°	1500.5	1487.7	1448.5	1386.4	1298.0	1264.2	1239.8	1213.4	1228.9	1258.0	1165.7
32.5°	1613.7	1599.4	1543.9	1465.6	1369.7	1336.0	1312.3	1283.2	1309.2	1358.1	1244.1
35°	1723.5	1710.7	1646.7	1554.4	1465.2	1437.2	1415.5	1390.3	1423.7	1491.9	1354.6
37.5°	1846.9	1832.9	1754.9	1654.9	1581.2	1561.0	1545.1	1519.9	1578.0	1678.1	1508.6
40°	1998.6	1974.9	1869.8	1770.1	1715.4	1705.7	1694.8	1691.3	1781.7	1920.2	1713.8
42.5°	2172.3	2133.5	1990.0	1891.5	1862.8	1869.8	1867.0	1882.6	2036.6	2221.2	1963.6
45°	2346.1	2296.1	2123.8	2021.1	2024.9	2049.4	2064.5	2126.6	2355.8	2566.5	2232.5
47.5°	2493.5	2444.3	2252.2	2161.1	2207.6	2255.7	2296.9	2414.4	2684.0	2906.3	2441.6
50°	2619.6	2573.1	2388.4	2315.1	2419.8	2497.4	2564.1	2738.3	3037.0	3165.0	2588.2
52.5°	2722.8	2691.8	2529.6	2491.6	2662.3	2775.9	2873.7	3082.4	3349.7	3375.3	2702.2
55°	2823.3	2801.2	2681.3	2701.5	2947.0	3101.8	3225.5	3447.4	3618.9	3550.6	2811.6
57.5°	2938.9	2918.7	2854.3	2967.6	3321.4	3516.1	3651.1	3770.9	3855.9	3729.8	2914.8
60°	3056.8	3045.2	3046.7	3263.2	3751.2	3938.1	4012.6	4043.7	4088.7	3898.6	2920.6
62.5°	3169.3	3191.4	3266.7	3592.1	4162.7	4306.3	4343.9	4374.5	4321.8	3925.3	2698.4
65°	3359.8	3395.8	3575.4	4032.4	4615.4	4769.1	4807.9	4702.7	4358.6	3579.3	2194.8
67.5°	3452.9	3518.8	3839.2	4442.8	5054.6	5225.3	5210.9	4724.1	3911.4	2729.4	1408.5
69°	3433.5	3503.7	3900.1	4568.5	5200.4	5355.2	5264.0	4463.0	3332.2	1977.2	864.7
70°	3356.7	3427.6	3868.7	4563.9	5219.0	5341.6	5165.5	4140.6	2817.4	1445.8	540.8
72.5°	2803.1	2864.4	3434.6	4125.1	4807.9	4708.2	4321.4	2868.7	1372.8	393.7	121.8
75°	1725.5	1759.6	2464.4	3107.6	3631.3	3375.3	2879.1	1427.1	409.3	111.3	67.5
77.5°	911.6	927.1	1349.2	1831.7	2301.9	1904.7	1475.6	556.7	188.5	69.8	48.9
80°	538.8	550.5	726.6	837.5	996.2	832.1	590.0	341.8	135.0	43.8	43.4
82.5°	308.4	315.8	526.8	465.5	392.6	335.2	293.7	323.9	81.1	29.5	45.0
85°	113.3	114.8	296.4	354.2	233.5	138.9	145.9	268.4	21.7	18.6	35.3
87.5°	52.8	51.6	152.5	216.8	136.5	88.1	113.7	59.0	8.5	12.0	9.7
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°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	962.0	947.7	921.7	894.9	867.8	846.8	826.3	810.0	804.5	794.5	795.2
5°	932.6	906.2	851.9	796.8	739.4	692.0	647.4	611.4	593.9	576.1	576.1
7.5°	907.0	868.5	783.6	694.0	601.3	523.3	453.1	400.3	371.2	348.0	347.6
10°	897.3	845.3	726.6	598.2	469.0	362.7	279.3	225.8	198.2	180.4	179.6
12.5°	901.5	837.1	682.7	509.7	347.6	233.1	161.8	127.2	115.6	110.2	110.2
15°	913.9	834.8	638.9	423.2	245.6	145.9	107.5	98.1	97.4	97.4	97.4
17.5°	929.1	835.6	593.9	339.0	167.2	104.3	92.7	91.5	92.3	92.3	92.3
20°	944.6	836.0	545.4	261.1	117.9	90.8	87.3	86.9	87.7	87.7	88.1
22.5°	963.6	837.9	496.9	195.1	97.4	85.7	83.0	83.0	83.4	83.4	83.0
25°	985.3	841.8	446.5	144.7	88.8	82.2	79.9	79.5	79.9	79.5	79.1
27.5°	1012.5	847.2	390.2	113.3	85.0	78.7	76.8	76.8	76.4	76.0	75.6
30°	1046.6	853.4	327.0	96.2	81.1	75.6	73.7	73.3	72.9	72.2	72.2
32.5°	1098.6	867.0	264.6	87.3	76.8	71.4	69.8	69.8	69.0	68.3	67.9
35°	1178.5	893.8	208.7	81.9	72.2	66.7	64.8	64.8	64.0	63.6	63.2
37.5°	1289.1	934.5	162.1	76.8	67.5	61.7	59.7	59.4	58.6	57.8	57.4
40°	1436.1	984.9	127.6	72.2	62.8	56.6	55.1	54.3	52.8	51.6	51.6
42.5°	1620.7	1042.3	103.6	67.1	57.4	52.0	50.8	49.7	46.9	45.8	45.4
45°	1813.9	1093.9	87.7	61.3	52.0	47.3	46.6	44.6	41.1	40.0	40.0
47.5°	1953.2	1106.0	77.2	55.9	46.9	42.3	41.9	38.4	35.3	34.5	34.1
50°	2040.1	1082.3	68.7	50.4	42.3	37.6	36.5	32.2	30.3	29.5	29.1
52.5°	2098.6	1040.0	61.7	45.8	38.0	33.4	30.6	27.5	26.0	25.2	25.2
55°	2145.6	980.3	54.7	41.5	34.5	29.9	26.0	23.7	22.1	21.3	21.3
57.5°	2158.8	899.2	47.7	38.0	31.0	26.4	22.1	20.6	18.6	18.2	18.2
60°	2062.9	752.9	42.3	33.7	27.9	22.9	19.4	17.5	15.5	15.1	14.7
62.5°	1810.4	582.7	37.2	29.9	24.4	19.8	16.7	14.4	12.8	12.8	12.8
65°	1381.0	390.6	32.6	26.0	21.3	16.7	14.4	11.6	10.9	10.9	11.2
67.5°	826.7	212.6	27.9	22.1	18.2	14.0	12.0	10.1	9.7	10.1	10.1
69°	484.5	124.9	25.2	19.8	15.9	12.4	10.5	8.9	9.7	10.1	10.1
70°	299.1	84.2	23.3	17.8	14.4	11.2	9.7	8.5	9.3	9.7	9.7
72.5°	83.4	43.4	18.6	14.0	11.6	9.3	7.8	7.8	8.9	9.3	9.3
75°	54.3	32.2	14.4	10.5	8.9	7.4	6.6	7.4	8.5	8.9	8.9
77.5°	45.0	26.4	11.6	8.5	7.4	7.0	6.2	6.6	7.8	8.1	8.1
80°	41.1	18.6	9.3	7.8	6.6	6.2	5.8	5.4	7.0	7.4	7.4
82.5°	39.2	14.7	8.1	7.0	6.2	5.4	5.0	5.4	6.2	6.6	7.0
85°	24.4	9.7	7.4	6.6	5.4	5.0	5.0	5.0	5.8	6.2	6.2
87.5°	8.9	7.8	6.6	5.4	4.7	4.7	4.7	4.7	5.0	5.8	5.8
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)