

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: P594779

Luminaire Tested: **ISS-PA1E-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-PA1E-727-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8851 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

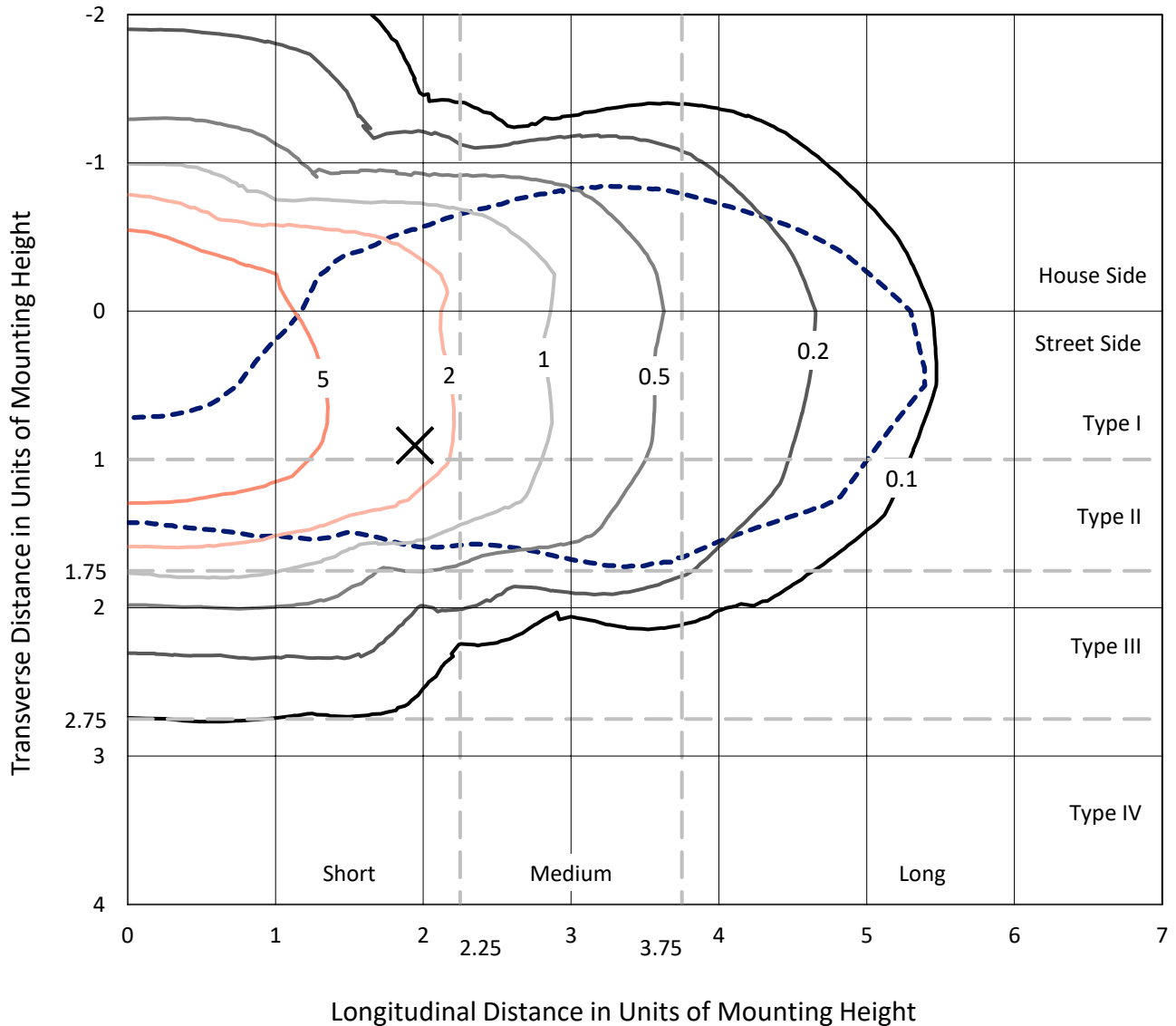
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

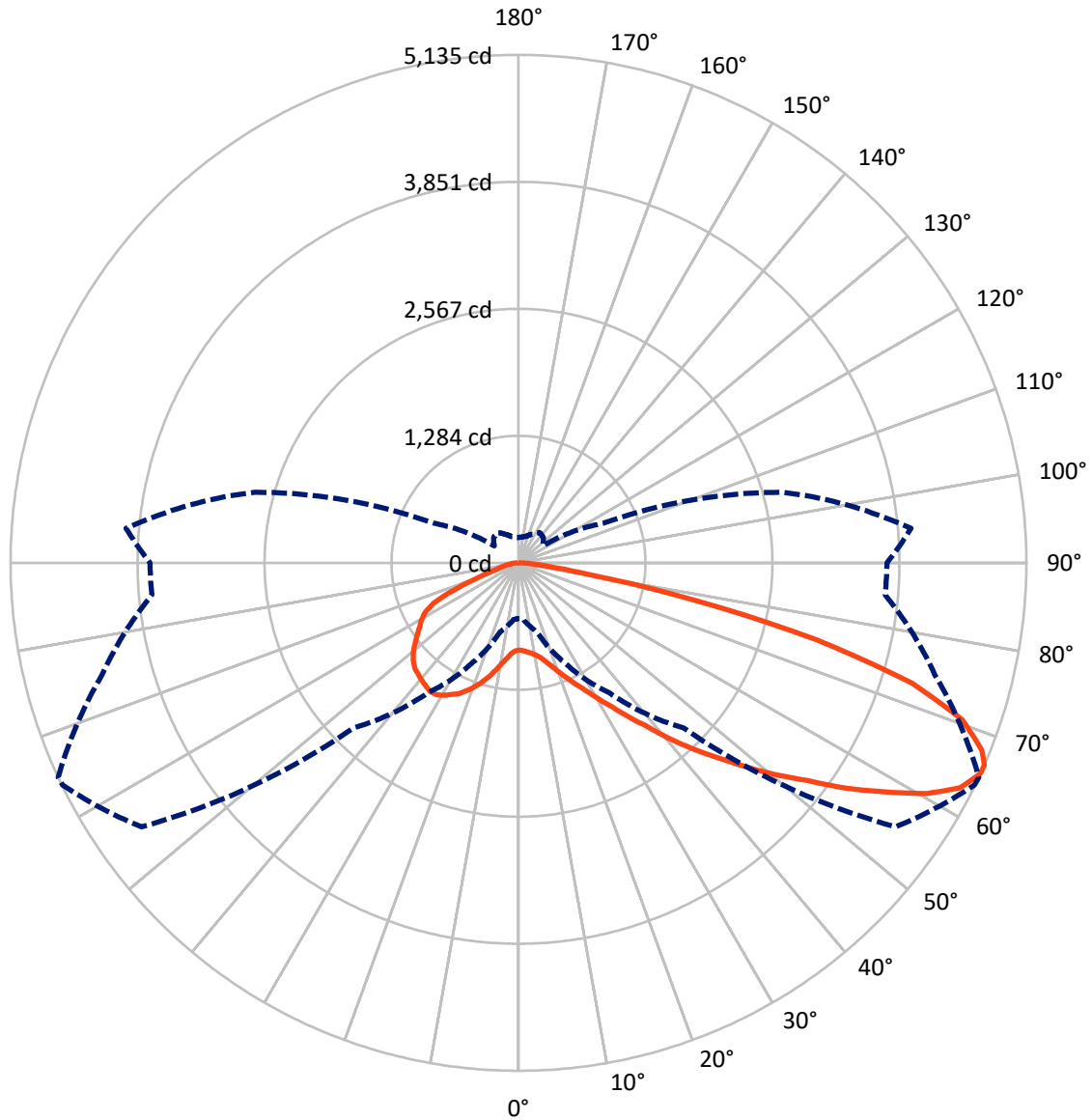
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2687.5	0.0	2687.5
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	6163.5	0.0	6163.5
	% Fixture	69.6	0.0	69.6
Total	Lumens	8851.0	0.0	8851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.0
10°-20°	313.7	3.5
20°-30°	614.3	6.9
30°-40°	1003.9	11.3
40°-50°	1593.4	18.0
50°-60°	2049.3	23.2
60°-70°	1848.1	20.9
70°-80°	1146.2	13.0
80°-90°	192.1	2.2
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°	8851.0	100.0
0°-180°	8851.0	100.0

Coefficient of Utilization



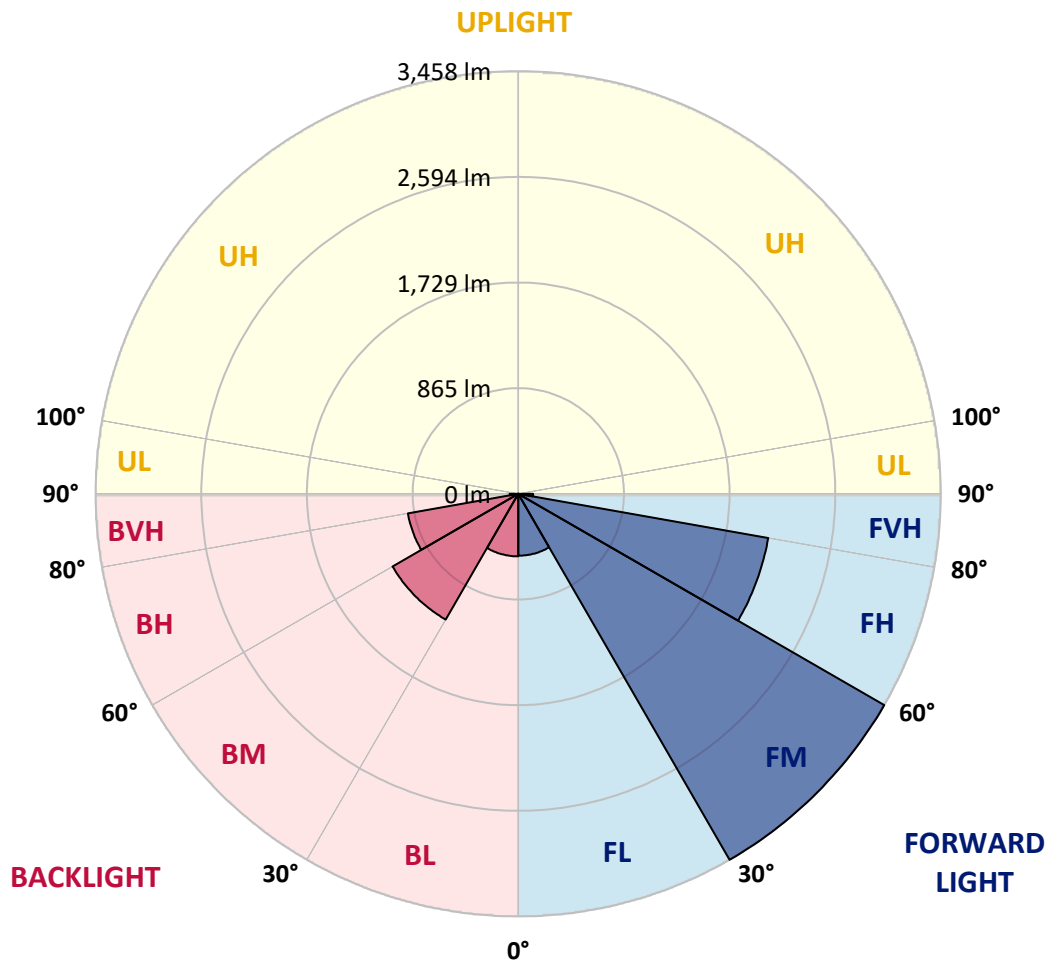
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.2	5.7			
FM (30°-60°)	3458.5	39.1			
FH (60°-80°)	2077.3	23.5			G2/5000
FVH (80°-90°)	121.5	1.4			G2/225
BL (0°-30°)	511.9	5.8	B2/1000		
BM (30°-60°)	1188.1	13.4	B2/2500		
BH (60°-80°)	917.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	70.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2
2.5°	884.4	886.5	888.7	884.4	888.7	890.8	886.5	886.5	888.7	884.4	884.4
5°	877.9	880.1	884.4	886.5	895.1	899.4	901.6	901.6	903.7	901.6	903.7
7.5°	860.8	860.8	869.4	873.6	886.5	901.6	910.1	923.0	923.0	925.2	931.6
10°	877.9	877.9	884.4	890.8	901.6	914.4	927.3	942.3	946.6	961.7	970.2
12.5°	903.7	908.0	916.6	925.2	938.0	953.1	963.8	978.8	981.0	996.0	1013.2
15°	946.6	950.9	955.2	965.9	983.1	1002.4	1021.8	1032.5	1036.8	1045.4	1058.3
17.5°	1011.0	1015.3	1017.5	1023.9	1036.8	1062.5	1090.4	1099.0	1103.3	1103.3	1114.1
20°	1120.5	1118.4	1114.1	1101.2	1101.2	1124.8	1163.4	1178.5	1182.8	1174.2	1167.7
22.5°	1247.1	1245.0	1227.8	1212.8	1202.1	1206.4	1245.0	1270.8	1268.6	1251.4	1225.7
25°	1412.4	1416.7	1388.8	1350.2	1318.0	1309.4	1333.0	1358.8	1363.1	1330.9	1287.9
27.5°	1609.9	1603.5	1588.5	1526.2	1464.0	1425.3	1438.2	1466.1	1468.2	1433.9	1365.2
30°	1841.7	1831.0	1792.4	1728.0	1631.4	1577.7	1567.0	1590.6	1597.0	1539.1	1440.3
32.5°	2099.3	2088.6	2039.2	1940.5	1835.3	1745.1	1710.8	1743.0	1738.7	1672.2	1534.8
35°	2410.6	2408.4	2318.3	2195.9	2062.8	1942.6	1895.4	1895.4	1908.3	1809.5	1655.0
37.5°	2827.0	2844.2	2711.1	2520.1	2333.3	2172.3	2092.9	2088.6	2090.7	1983.4	1790.2
40°	3202.7	3196.2	3118.9	2940.8	2668.2	2462.1	2344.0	2318.3	2324.7	2187.3	1966.2
42.5°	3419.5	3425.9	3406.6	3329.3	3091.0	2831.3	2629.5	2560.8	2563.0	2391.3	2133.7
45°	3554.7	3561.1	3559.0	3597.6	3503.2	3258.5	2970.8	2812.0	2803.4	2623.1	2331.2
47.5°	3632.0	3636.3	3664.2	3743.6	3820.9	3765.1	3348.6	3091.0	3073.9	2839.9	2528.6
50°	3546.1	3548.3	3659.9	3848.8	4037.7	4207.2	3735.0	3367.9	3363.7	3080.3	2721.8
52.5°	3095.3	3134.0	3380.8	3775.8	4198.7	4520.6	4181.5	3694.2	3657.7	3307.8	2915.0
55°	2526.5	2543.7	2827.0	3329.3	4168.6	4713.8	4518.5	4046.3	4020.5	3561.1	3103.9
57.5°	1972.7	1989.9	2326.9	2745.4	3709.2	4703.1	4756.8	4426.2	4368.2	3782.2	3292.8
60°	1272.9	1326.6	1717.2	2232.4	3003.0	4376.8	4877.0	4791.1	4737.4	4001.2	3453.8
62.5°	865.1	873.6	1118.4	1655.0	2247.4	3556.8	4868.4	5016.5	5007.9	4220.1	3614.8
65°	562.4	575.3	723.4	1120.5	1607.8	2361.2	4653.7	5126.0	5134.6	4355.4	3720.0
66°	476.5	485.1	598.9	942.3	1408.1	1871.8	4464.8	5117.4	5134.6	4417.6	3752.2
67.5°	414.3	420.7	478.7	695.5	1150.6	1345.9	3973.3	5003.6	5053.0	4475.6	3793.0
70°	356.3	364.9	418.6	474.4	822.1	785.6	2515.8	4711.7	4761.1	4503.5	3818.7
72.5°	294.1	300.5	354.2	429.3	596.7	528.1	1109.8	4033.4	4157.9	4400.4	3777.9
75°	231.8	236.1	285.5	358.5	457.2	412.1	483.0	2958.0	3114.7	3878.8	3619.1
77.5°	180.3	182.5	221.1	279.1	418.6	319.8	298.4	1440.3	1822.4	2996.6	3187.6
80°	124.5	128.8	163.1	210.4	307.0	253.3	199.6	562.4	714.8	1989.9	2417.0
82.5°	81.6	83.7	111.6	158.8	203.9	242.6	130.9	272.6	300.5	916.6	1047.5
85°	55.8	55.8	79.4	98.7	139.5	161.0	85.9	143.8	156.7	347.7	126.6
87.5°	27.9	27.9	38.6	51.5	66.5	62.3	51.5	51.5	51.5	113.8	36.5
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°	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2
2.5°	886.5	886.5	888.7	890.8	893.0	893.0	895.1	895.1	893.0	895.1	897.3
5°	905.8	908.0	912.3	918.7	929.5	940.2	950.9	957.4	963.8	965.9	961.7
7.5°	935.9	940.2	955.2	972.4	989.6	1015.3	1030.3	1038.9	1043.2	1047.5	1043.2
10°	974.5	983.1	1004.6	1034.6	1064.7	1096.9	1114.1	1126.9	1129.1	1133.4	1129.1
12.5°	1019.6	1034.6	1066.8	1109.8	1146.3	1178.5	1191.3	1182.8	1163.4	1154.8	1152.7
15°	1073.3	1088.3	1133.4	1187.0	1230.0	1245.0	1225.7	1197.8	1176.3	1174.2	1172.0
17.5°	1120.5	1142.0	1204.2	1260.0	1300.8	1285.8	1234.3	1217.1	1210.7	1219.2	1217.1
20°	1180.6	1197.8	1260.0	1328.7	1350.2	1292.2	1255.7	1245.0	1238.6	1238.6	1234.3
22.5°	1230.0	1242.9	1318.0	1393.1	1380.2	1296.5	1270.8	1249.3	1227.8	1225.7	1219.2
25°	1287.9	1292.2	1371.6	1453.2	1384.5	1300.8	1255.7	1219.2	1197.8	1191.3	1193.5
27.5°	1341.6	1352.3	1421.0	1494.0	1373.8	1277.2	1204.2	1157.0	1124.8	1122.6	1122.6
30°	1410.3	1410.3	1472.5	1539.1	1350.2	1217.1	1120.5	1051.8	1026.1	1023.9	1019.6
32.5°	1487.6	1474.7	1534.8	1571.3	1298.7	1135.5	1006.7	929.5	888.7	880.1	873.6
35°	1594.9	1567.0	1609.9	1577.7	1247.1	1019.6	862.9	774.9	744.9	732.0	732.0
37.5°	1719.4	1678.6	1723.7	1558.4	1167.7	884.4	712.7	646.1	613.9	594.6	601.0
40°	1865.4	1813.8	1839.6	1536.9	1081.9	734.1	588.2	547.4	508.7	483.0	483.0
42.5°	2037.1	1951.2	1970.5	1515.5	959.5	603.2	508.7	480.8	450.8	425.0	431.5
45°	2202.4	2118.6	2099.3	1494.0	830.7	515.2	476.5	457.2	429.3	399.3	399.3
47.5°	2393.4	2286.1	2213.1	1455.4	704.1	487.3	485.1	457.2	403.6	360.6	356.3
50°	2573.7	2475.0	2316.1	1397.4	633.2	510.9	483.0	416.4	364.9	337.0	334.9
52.5°	2764.8	2661.7	2399.8	1326.6	596.7	500.1	444.3	382.1	343.4	315.5	309.1
55°	2953.7	2900.0	2475.0	1257.9	538.8	465.8	412.1	360.6	319.8	294.1	289.8
57.5°	3168.3	3146.8	2539.4	1189.2	448.6	422.9	388.5	345.6	307.0	287.6	285.5
60°	3355.1	3430.2	2616.7	1137.7	382.1	390.7	377.8	343.4	315.5	294.1	294.1
62.5°	3552.5	3702.8	2685.3	1071.1	332.7	371.4	379.9	341.3	304.8	285.5	285.5
65°	3724.3	3981.9	2756.2	948.8	298.4	356.3	373.5	317.7	274.8	259.7	255.4
66°	3797.3	4061.3	2777.6	873.6	285.5	345.6	362.8	304.8	261.9	249.0	246.9
67.5°	3883.1	4185.8	2803.4	712.7	266.2	322.0	339.2	285.5	240.4	231.8	227.5
70°	4003.3	4211.5	2788.4	465.8	231.8	276.9	302.7	255.4	214.7	208.2	201.8
72.5°	4016.2	4035.5	2638.1	294.1	201.8	238.3	266.2	229.7	188.9	182.5	178.2
75°	3803.7	3576.2	2232.4	210.4	178.2	210.4	234.0	199.6	156.7	148.1	143.8
77.5°	3247.7	2837.7	1605.6	156.7	154.6	180.3	195.3	173.9	130.9	124.5	122.4
80°	2279.6	1925.5	805.0	118.1	122.4	150.3	163.1	146.0	109.5	100.9	96.6
82.5°	923.0	817.8	276.9	88.0	92.3	113.8	139.5	120.2	83.7	73.0	64.4
85°	105.2	178.2	120.2	60.1	62.3	77.3	94.4	73.0	49.4	40.8	34.3
87.5°	21.5	38.6	42.9	23.6	21.5	30.1	42.9	25.8	17.2	6.4	8.6
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)