

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: P594842

Luminaire Tested: **ISS-PA1E-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594842
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-830-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 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: 8410 lumens
Efficiency: N/A
Efficacy: 102.1 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

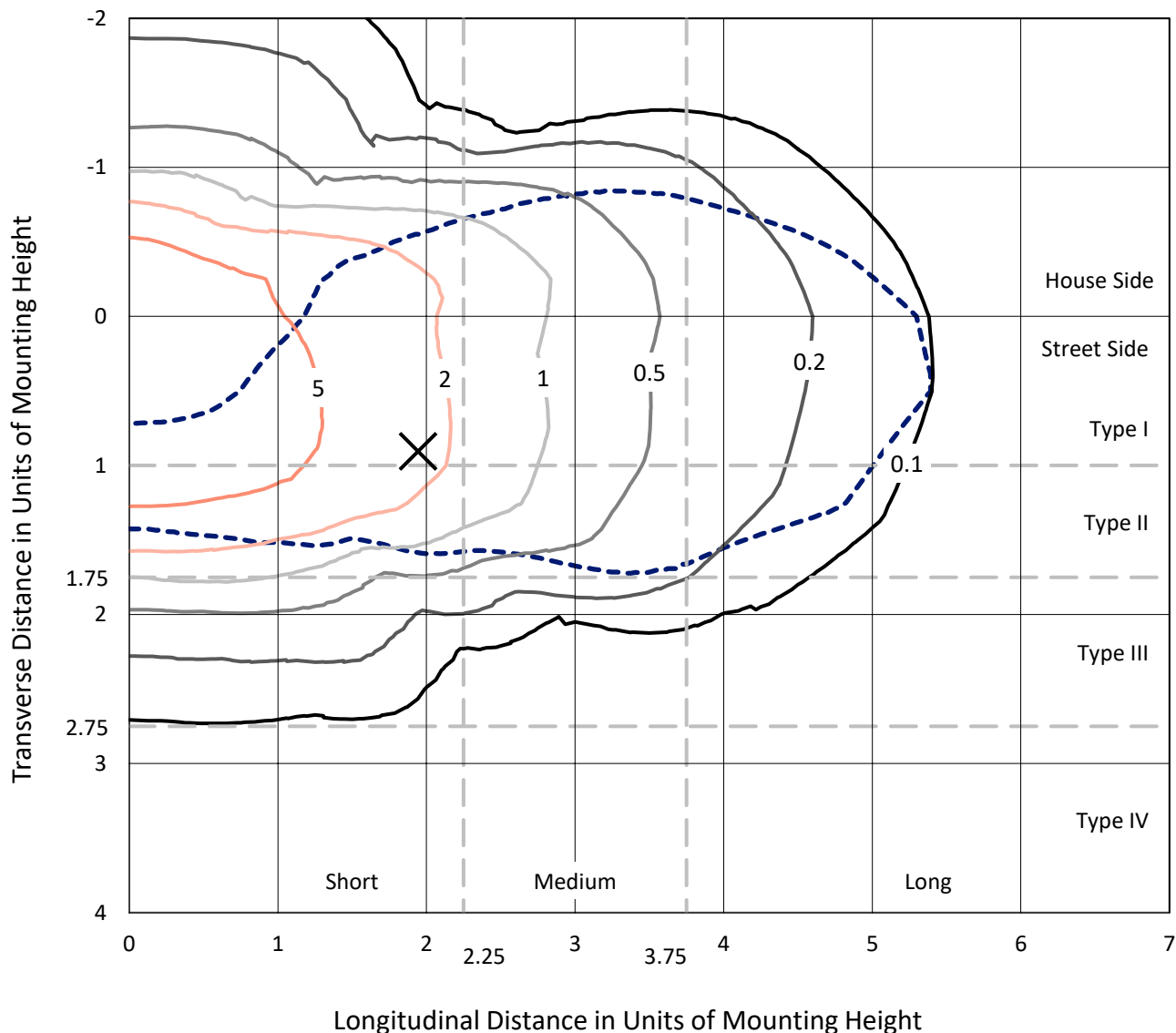
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

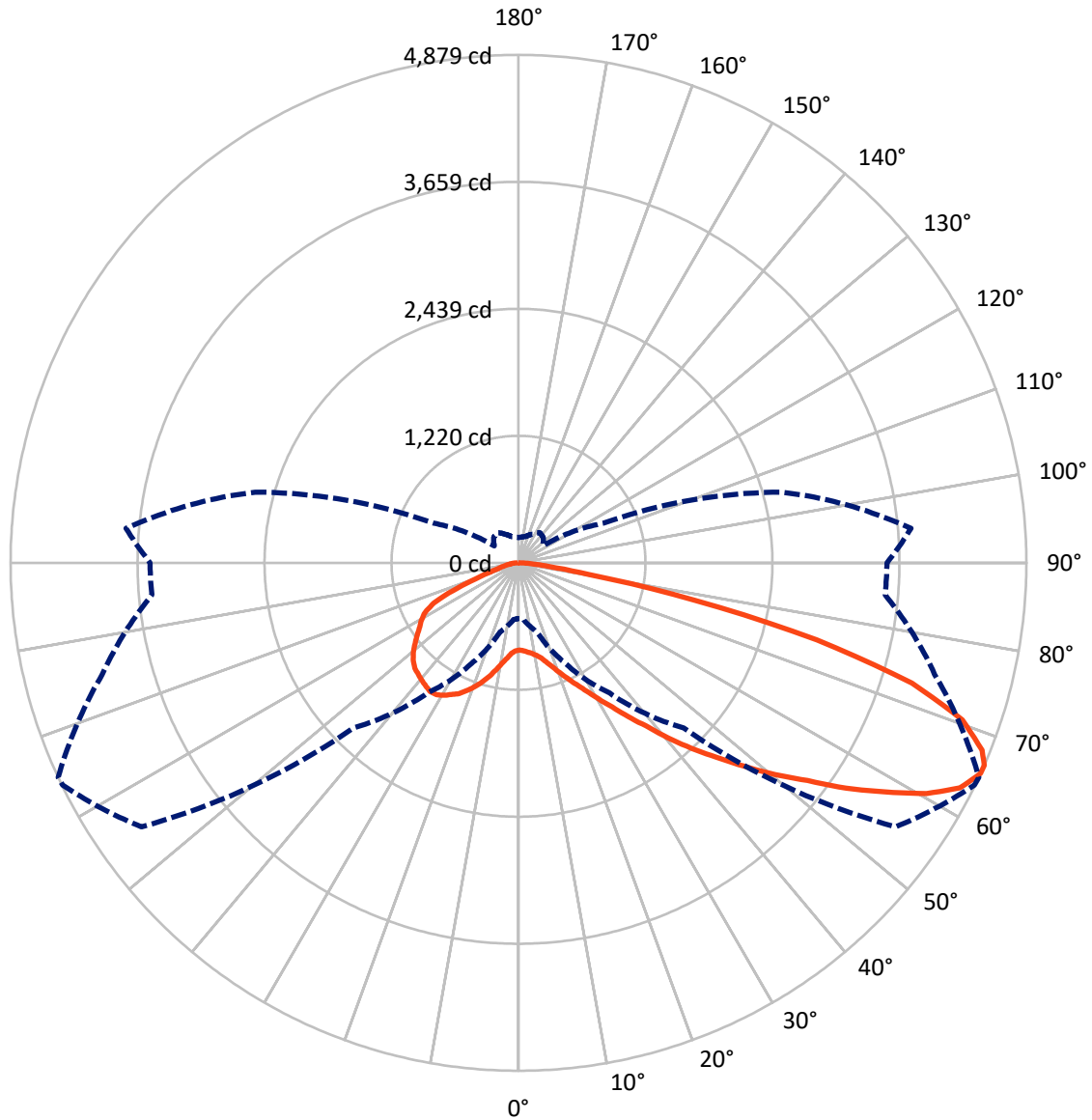
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.3 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	2553.6	0.0	2553.6
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5856.4	0.0	5856.4
	% Fixture	69.6	0.0	69.6
Total	Lumens	8410.0	0.0	8410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.0
10°-20°	298.1	3.5
20°-30°	583.7	6.9
30°-40°	953.8	11.3
40°-50°	1514.0	18.0
50°-60°	1947.2	23.2
60°-70°	1756.0	20.9
70°-80°	1089.1	13.0
80°-90°	182.5	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°	8410.0	100.0
0°-180°	8410.0	100.0

Coefficient of Utilization

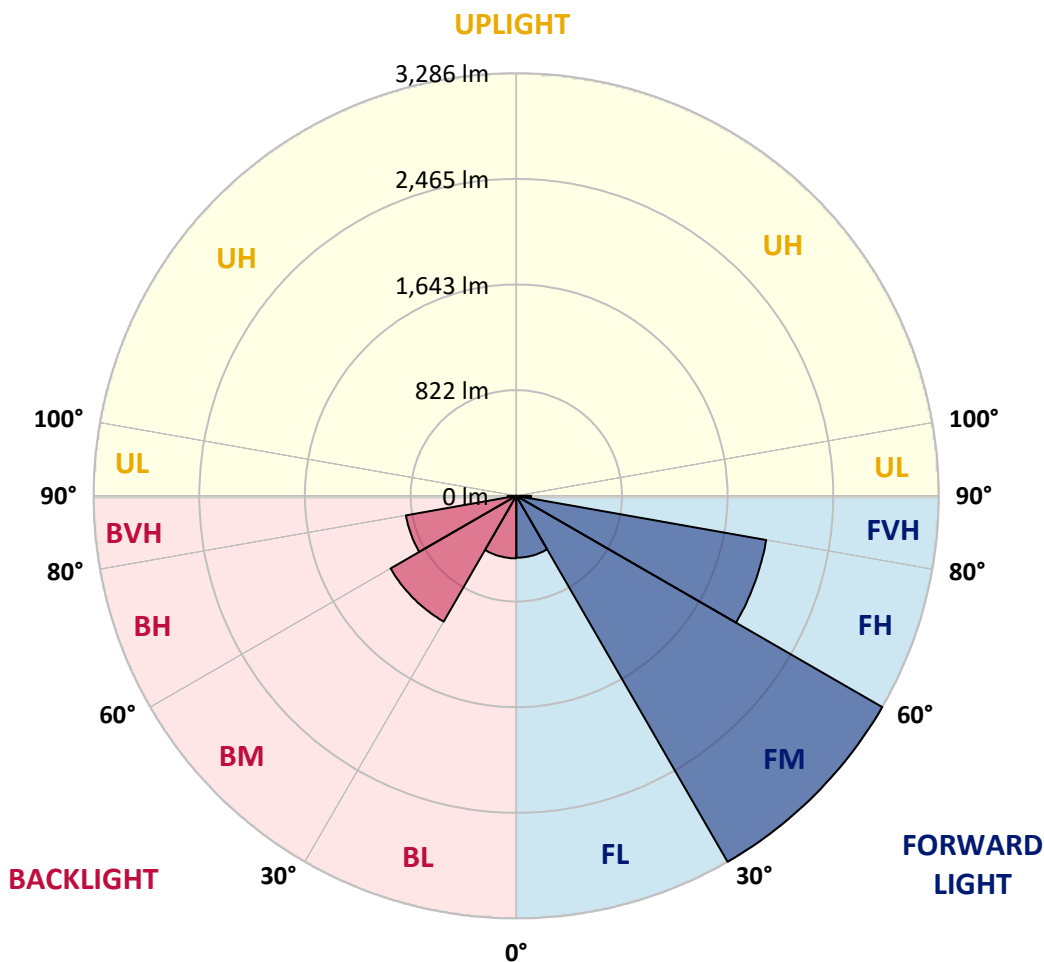


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.9	5.7			
FM (30°-60°)	3286.2	39.1			
FH (60°-80°)	1973.8	23.5			G2/5000
FVH (80°-90°)	115.4	1.4			G2/225
BL (0°-30°)	486.4	5.8	B1/500		
BM (30°-60°)	1128.9	13.4	B2/2500		
BH (60°-80°)	871.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	67.0	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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	840.3	842.4	844.4	840.3	844.4	846.4	842.4	842.4	844.4	840.3	840.3
5°	834.2	836.2	840.3	842.4	850.5	854.6	856.6	856.6	858.7	856.6	858.7
7.5°	817.9	817.9	826.0	830.1	842.4	856.6	864.8	877.0	877.0	879.1	885.2
10°	834.2	834.2	840.3	846.4	856.6	868.9	881.1	895.4	899.5	913.7	921.9
12.5°	858.7	862.8	870.9	879.1	891.3	905.6	915.8	930.1	932.1	946.4	962.7
15°	899.5	903.5	907.6	917.8	934.1	952.5	970.9	981.0	985.1	993.3	1005.5
17.5°	960.7	964.7	966.8	972.9	985.1	1009.6	1036.1	1044.3	1048.4	1048.4	1058.6
20°	1064.7	1062.6	1058.6	1046.3	1046.3	1068.8	1105.5	1119.7	1123.8	1115.7	1109.5
22.5°	1185.0	1183.0	1166.7	1152.4	1142.2	1146.3	1183.0	1207.4	1205.4	1189.1	1164.6
25°	1342.1	1346.1	1319.6	1282.9	1252.3	1244.2	1266.6	1291.1	1295.1	1264.6	1223.8
27.5°	1529.7	1523.6	1509.3	1450.2	1391.0	1354.3	1366.5	1393.0	1395.1	1362.5	1297.2
30°	1750.0	1739.8	1703.1	1641.9	1550.1	1499.1	1488.9	1511.3	1517.5	1462.4	1368.6
32.5°	1994.7	1984.5	1937.6	1843.8	1743.9	1658.2	1625.6	1656.2	1652.1	1588.9	1458.3
35°	2290.5	2288.4	2202.8	2086.5	1960.1	1845.8	1801.0	1801.0	1813.2	1719.4	1572.5
37.5°	2686.2	2702.5	2576.0	2394.5	2217.0	2064.1	1988.6	1984.5	1986.6	1884.6	1701.0
40°	3043.1	3037.0	2963.5	2794.3	2535.2	2339.4	2227.2	2202.8	2208.9	2078.4	1868.3
42.5°	3249.1	3255.2	3236.8	3163.4	2937.0	2690.2	2498.5	2433.2	2435.3	2272.1	2027.4
45°	3377.6	3383.7	3381.7	3418.4	3328.6	3096.1	2822.8	2671.9	2663.7	2492.4	2215.0
47.5°	3451.0	3455.1	3481.6	3557.1	3630.5	3577.5	3181.8	2937.0	2920.7	2698.4	2402.7
50°	3369.4	3371.5	3477.5	3657.0	3836.5	3997.6	3548.9	3200.1	3196.1	2926.8	2586.2
52.5°	2941.1	2977.8	3212.4	3587.7	3989.5	4295.4	3973.1	3510.2	3475.5	3143.0	2769.8
55°	2400.6	2416.9	2686.2	3163.4	3960.9	4479.0	4293.4	3844.7	3820.2	3383.7	2949.3
57.5°	1874.4	1890.7	2210.9	2608.7	3524.4	4468.8	4519.8	4205.7	4150.6	3593.8	3128.8
60°	1209.5	1260.5	1631.7	2121.2	2853.4	4158.8	4634.0	4552.4	4501.4	3801.8	3281.7
62.5°	822.0	830.1	1062.6	1572.5	2135.5	3379.6	4625.8	4766.6	4758.4	4009.9	3434.7
65°	534.4	546.6	687.3	1064.7	1527.7	2243.6	4421.9	4870.6	4878.7	4138.4	3534.6
66°	452.8	461.0	569.0	895.4	1338.0	1778.5	4242.4	4862.4	4878.7	4197.5	3565.2
67.5°	393.6	399.8	454.8	660.8	1093.2	1278.8	3775.3	4754.3	4801.2	4252.6	3604.0
70°	338.6	346.7	397.7	450.8	781.2	746.5	2390.4	4476.9	4523.8	4279.1	3628.5
72.5°	279.4	285.5	336.5	407.9	567.0	501.7	1054.5	3832.4	3950.7	4181.2	3589.7
75°	220.3	224.4	271.3	340.6	434.4	391.6	458.9	2810.6	2959.5	3685.6	3438.8
77.5°	171.3	173.4	210.1	265.1	397.7	303.9	283.5	1368.6	1731.6	2847.3	3028.8
80°	118.3	122.4	155.0	199.9	291.7	240.7	189.7	534.4	679.2	1890.7	2296.6
82.5°	77.5	79.5	106.1	150.9	193.8	230.5	124.4	259.0	285.5	870.9	995.3
85°	53.0	53.0	75.5	93.8	132.6	153.0	81.6	136.7	148.9	330.4	120.3
87.5°	26.5	26.5	36.7	49.0	63.2	59.1	49.0	49.0	49.0	108.1	34.7
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°	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3	838.3
2.5°	842.4	842.4	844.4	846.4	848.5	848.5	850.5	850.5	848.5	850.5	852.6
5°	860.7	862.8	866.8	873.0	883.1	893.3	903.5	909.7	915.8	917.8	913.7
7.5°	889.3	893.3	907.6	923.9	940.3	964.7	979.0	987.2	991.2	995.3	991.2
10°	926.0	934.1	954.5	983.1	1011.6	1042.2	1058.6	1070.8	1072.8	1076.9	1072.8
12.5°	968.8	983.1	1013.7	1054.5	1089.1	1119.7	1132.0	1123.8	1105.5	1097.3	1095.3
15°	1019.8	1034.1	1076.9	1127.9	1168.7	1183.0	1164.6	1138.1	1117.7	1115.7	1113.6
17.5°	1064.7	1085.1	1144.2	1197.2	1236.0	1221.7	1172.8	1156.5	1150.3	1158.5	1156.5
20°	1121.8	1138.1	1197.2	1262.5	1282.9	1227.8	1193.2	1183.0	1176.9	1176.9	1172.8
22.5°	1168.7	1180.9	1252.3	1323.7	1311.5	1231.9	1207.4	1187.0	1166.7	1164.6	1158.5
25°	1223.8	1227.8	1303.3	1380.8	1315.5	1236.0	1193.2	1158.5	1138.1	1132.0	1134.0
27.5°	1274.8	1284.9	1350.2	1419.6	1305.3	1213.6	1144.2	1099.3	1068.8	1066.7	1066.7
30°	1340.0	1340.0	1399.2	1462.4	1282.9	1156.5	1064.7	999.4	974.9	972.9	968.8
32.5°	1413.4	1401.2	1458.3	1493.0	1234.0	1078.9	956.6	883.1	844.4	836.2	830.1
35°	1515.4	1488.9	1529.7	1499.1	1185.0	968.8	819.9	736.3	707.7	695.5	695.5
37.5°	1633.7	1595.0	1637.8	1480.8	1109.5	840.3	677.1	613.9	583.3	565.0	571.1
40°	1772.4	1723.5	1747.9	1460.4	1028.0	697.5	558.9	520.1	483.4	458.9	458.9
42.5°	1935.6	1854.0	1872.4	1440.0	911.7	573.1	483.4	456.9	428.3	403.8	410.0
45°	2092.6	2013.1	1994.7	1419.6	789.3	489.5	452.8	434.4	407.9	379.4	379.4
47.5°	2274.2	2172.2	2102.8	1382.9	669.0	463.0	461.0	434.4	383.4	342.7	338.6
50°	2445.5	2351.7	2200.7	1327.8	601.7	485.4	458.9	395.7	346.7	320.2	318.2
52.5°	2627.0	2529.1	2280.3	1260.5	567.0	475.2	422.2	363.0	326.3	299.8	293.7
55°	2806.5	2755.5	2351.7	1195.2	511.9	442.6	391.6	342.7	303.9	279.4	275.3
57.5°	3010.5	2990.1	2412.9	1129.9	426.3	401.8	369.2	328.4	291.7	273.3	271.3
60°	3187.9	3259.3	2486.3	1081.0	363.0	371.2	359.0	326.3	299.8	279.4	279.4
62.5°	3375.5	3518.3	2551.5	1017.8	316.1	352.9	361.0	324.3	289.6	271.3	271.3
65°	3538.7	3783.5	2618.9	901.5	283.5	338.6	354.9	301.9	261.1	246.8	242.7
66°	3608.1	3858.9	2639.2	830.1	271.3	328.4	344.7	289.6	248.8	236.6	234.6
67.5°	3689.6	3977.2	2663.7	677.1	252.9	305.9	322.3	271.3	228.4	220.3	216.2
70°	3803.9	4001.7	2649.4	442.6	220.3	263.1	287.6	242.7	204.0	197.8	191.7
72.5°	3816.1	3834.5	2506.7	279.4	191.7	226.4	252.9	218.2	179.5	173.4	169.3
75°	3614.2	3398.0	2121.2	199.9	169.3	199.9	222.3	189.7	148.9	140.7	136.7
77.5°	3085.9	2696.4	1525.6	148.9	146.9	171.3	185.6	165.2	124.4	118.3	116.3
80°	2166.1	1829.5	764.9	112.2	116.3	142.8	155.0	138.7	104.0	95.9	91.8
82.5°	877.0	777.1	263.1	83.6	87.7	108.1	132.6	114.2	79.5	69.3	61.2
85°	99.9	169.3	114.2	57.1	59.1	73.4	89.7	69.3	46.9	38.8	32.6
87.5°	20.4	36.7	40.8	22.4	20.4	28.6	40.8	24.5	16.3	6.1	8.2
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)