

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: P594761

Luminaire Tested: **ISS-PA1D-830-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594761  
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-PA1D-830-U-T2U  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6851 lumens  
Efficiency: N/A  
Efficacy: 108.7 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

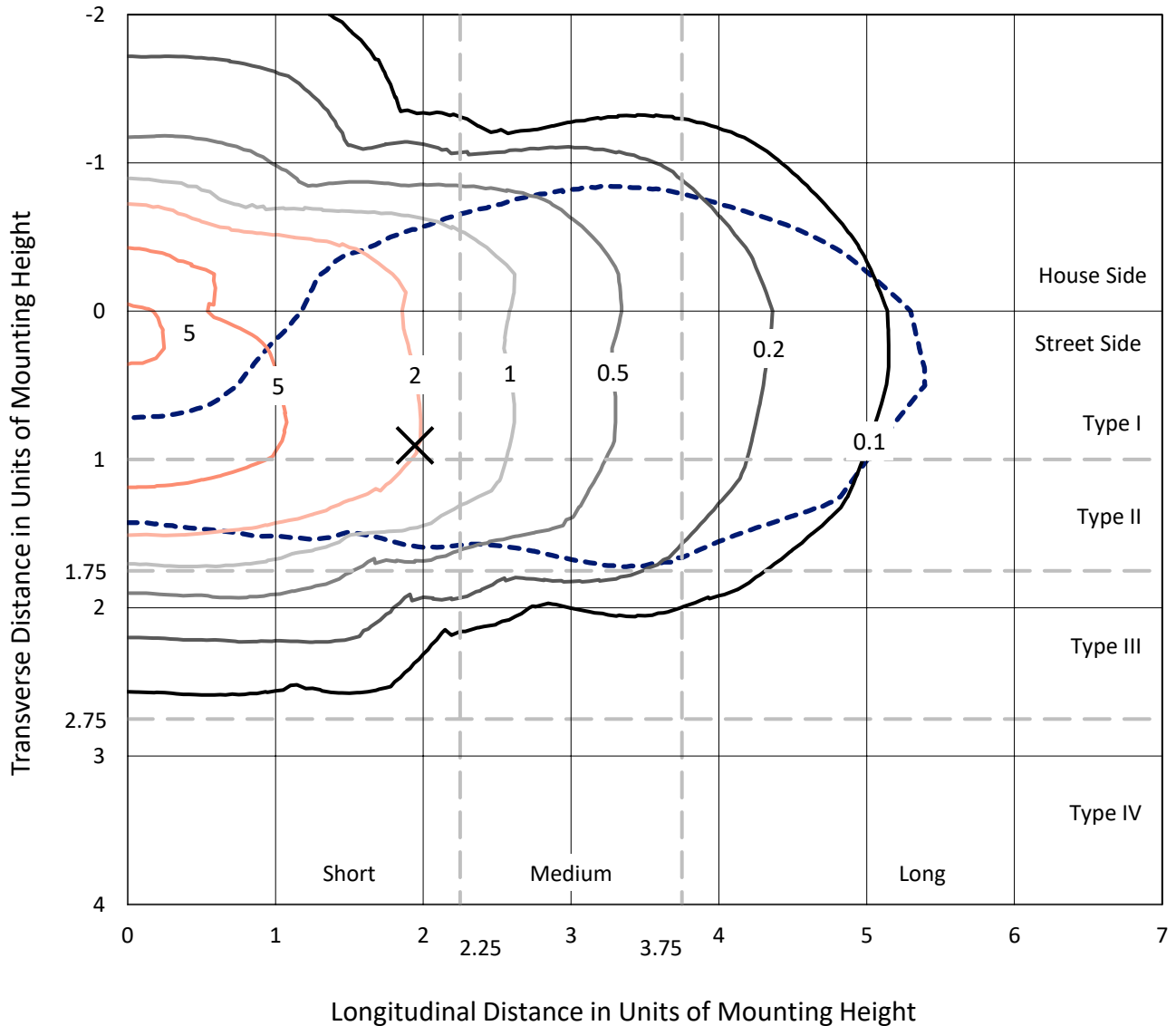
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

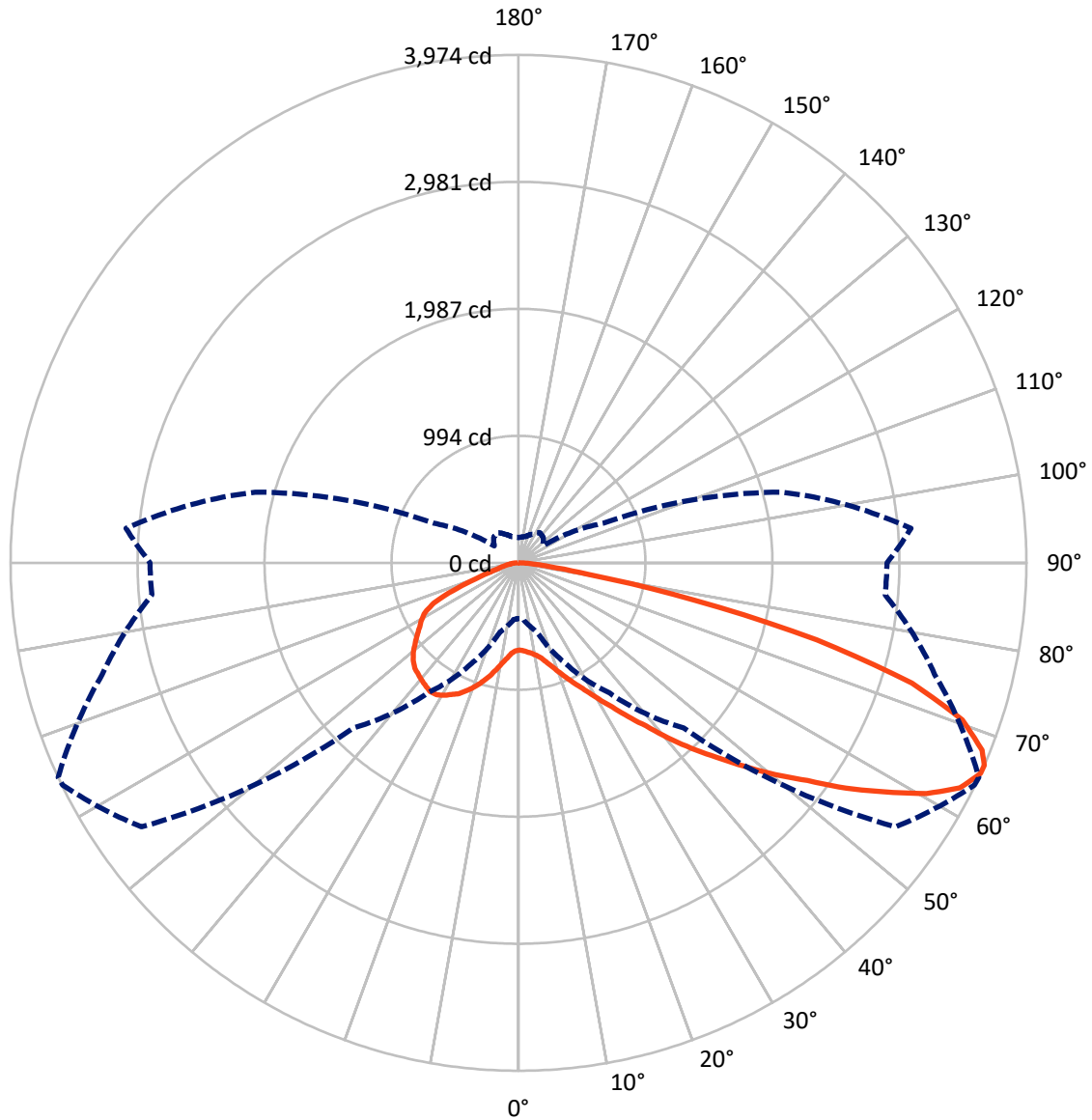
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	2080.2	0.0	2080.2
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4770.8	0.0	4770.8
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6851.0	0.0	6851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	1.0
10°-20°	242.8	3.5
20°-30°	475.5	6.9
30°-40°	777.0	11.3
40°-50°	1233.3	18.0
50°-60°	1586.2	23.2
60°-70°	1430.5	20.9
70°-80°	887.2	13.0
80°-90°	148.7	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°	6851.0	100.0
0°-180°	6851.0	100.0

**Coefficient of Utilization**

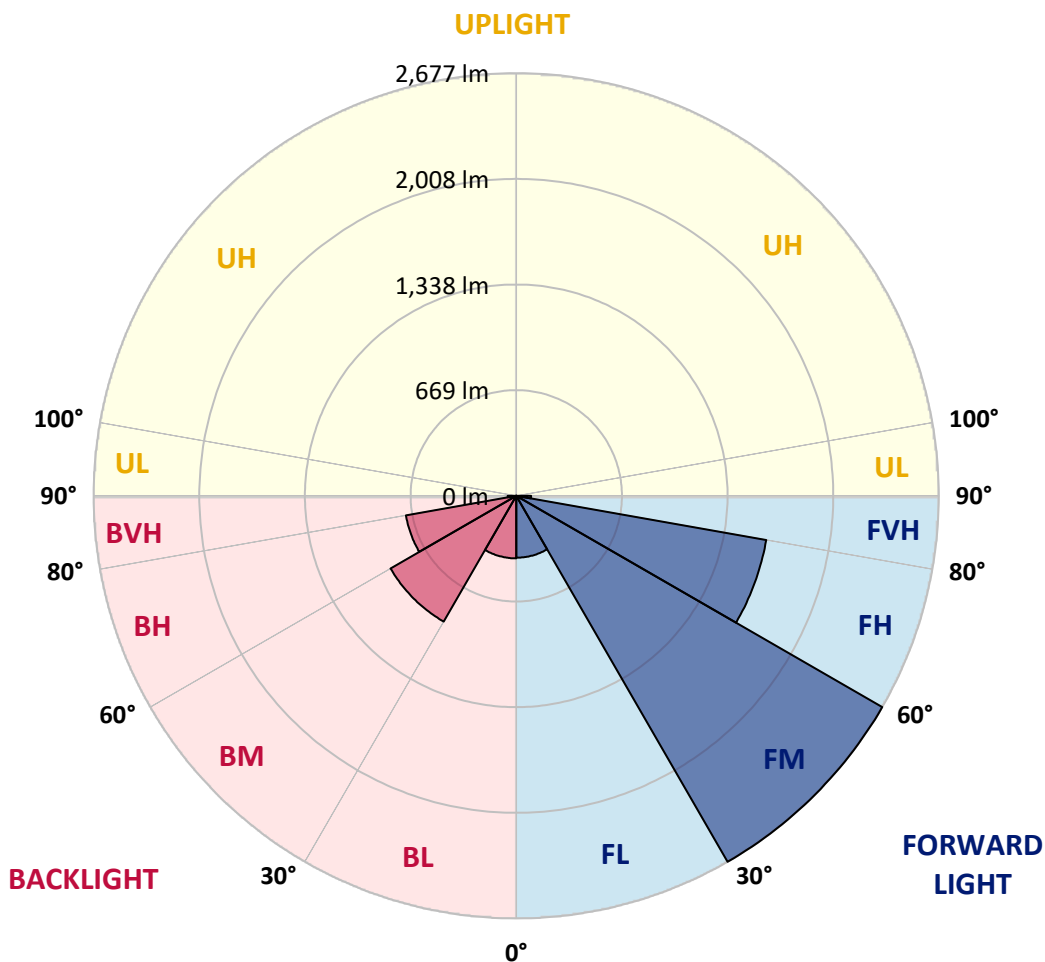


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.8	5.7			
FM (30°-60°)	2677.0	39.1			
FH (60°-80°)	1607.9	23.5			G1/1800
FVH (80°-90°)	94.0	1.4			G1/100
BL (0°-30°)	396.2	5.8	B1/500		
BM (30°-60°)	919.6	13.4	B1/1000		
BH (60°-80°)	709.8	10.4	B2/1000		G2/1000
BVH (80°-90°)	54.6	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°	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9
2.5°	684.5	686.2	687.9	684.5	687.9	689.5	686.2	686.2	687.9	684.5	684.5
5°	679.6	681.2	684.5	686.2	692.9	696.2	697.8	697.8	699.5	697.8	699.5
7.5°	666.3	666.3	672.9	676.2	686.2	697.8	704.5	714.5	714.5	716.1	721.1
10°	679.6	679.6	684.5	689.5	697.8	707.8	717.8	729.4	732.7	744.4	751.0
12.5°	699.5	702.8	709.5	716.1	726.1	737.7	746.0	757.6	759.3	770.9	784.2
15°	732.7	736.1	739.4	747.7	761.0	775.9	790.9	799.2	802.5	809.2	819.1
17.5°	782.6	785.9	787.6	792.5	802.5	822.4	844.0	850.7	854.0	854.0	862.3
20°	867.3	865.6	862.3	852.4	852.4	870.6	900.5	912.2	915.5	908.8	903.9
22.5°	965.3	963.7	950.4	938.8	930.4	933.8	963.7	983.6	982.0	968.7	948.7
25°	1093.3	1096.6	1075.0	1045.1	1020.2	1013.5	1031.8	1051.7	1055.1	1030.1	996.9
27.5°	1246.1	1241.1	1229.5	1181.3	1133.2	1103.2	1113.2	1134.8	1136.5	1109.9	1056.7
30°	1425.6	1417.3	1387.4	1337.5	1262.7	1221.2	1212.9	1231.2	1236.2	1191.3	1114.9
32.5°	1625.0	1616.7	1578.4	1502.0	1420.6	1350.8	1324.2	1349.1	1345.8	1294.3	1188.0
35°	1865.9	1864.2	1794.4	1699.7	1596.7	1503.7	1467.1	1467.1	1477.1	1400.7	1281.0
37.5°	2188.2	2201.5	2098.5	1950.6	1806.1	1681.5	1620.0	1616.7	1618.3	1535.2	1385.7
40°	2479.0	2474.0	2414.2	2276.3	2065.3	1905.8	1814.4	1794.4	1799.4	1693.1	1521.9
42.5°	2646.8	2651.8	2636.8	2577.0	2392.6	2191.5	2035.4	1982.2	1983.8	1850.9	1651.5
45°	2751.5	2756.4	2754.8	2784.7	2711.6	2522.2	2299.5	2176.6	2169.9	2030.4	1804.4
47.5°	2811.3	2814.6	2836.2	2897.7	2957.5	2914.3	2592.0	2392.6	2379.3	2198.2	1957.3
50°	2744.8	2746.5	2832.9	2979.1	3125.3	3256.6	2891.0	2606.9	2603.6	2384.3	2106.8
52.5°	2395.9	2425.8	2616.9	2922.6	3249.9	3499.1	3236.6	2859.5	2831.2	2560.4	2256.3
55°	1955.6	1968.9	2188.2	2577.0	3226.7	3648.7	3497.5	3132.0	3112.0	2756.4	2402.5
57.5°	1526.9	1540.2	1801.1	2125.1	2871.1	3640.4	3681.9	3426.0	3381.2	2927.6	2548.8
60°	985.3	1026.8	1329.2	1728.0	2324.5	3387.8	3775.0	3708.5	3667.0	3097.1	2673.4
62.5°	669.6	676.2	865.6	1281.0	1739.6	2753.1	3768.3	3883.0	3876.3	3266.5	2798.0
65°	435.3	445.3	559.9	867.3	1244.5	1827.7	3602.2	3967.7	3974.3	3371.2	2879.4
66°	368.9	375.5	463.6	729.4	1090.0	1448.8	3455.9	3961.0	3974.3	3419.4	2904.3
67.5°	320.7	325.7	370.5	538.3	890.6	1041.8	3075.5	3873.0	3911.2	3464.3	2935.9
70°	275.8	282.5	324.0	367.2	636.4	608.1	1947.3	3647.0	3685.2	3485.9	2955.8
72.5°	227.6	232.6	274.1	332.3	461.9	408.7	859.0	3122.0	3218.3	3406.1	2924.3
75°	179.4	182.8	221.0	277.5	353.9	319.0	373.8	2289.6	2410.9	3002.4	2801.3
77.5°	139.6	141.2	171.1	216.0	324.0	247.6	231.0	1114.9	1410.6	2319.5	2467.3
80°	96.4	99.7	126.3	162.8	237.6	196.1	154.5	435.3	553.3	1540.2	1870.9
82.5°	63.1	64.8	86.4	123.0	157.8	187.8	101.4	211.0	232.6	709.5	810.8
85°	43.2	43.2	61.5	76.4	108.0	124.6	66.5	111.3	121.3	269.2	98.0
87.5°	21.6	21.6	29.9	39.9	51.5	48.2	39.9	39.9	39.9	88.1	28.2
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°	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9	682.9
2.5°	686.2	686.2	687.9	689.5	691.2	691.2	692.9	692.9	691.2	692.9	694.5
5°	701.2	702.8	706.1	711.1	719.4	727.7	736.1	741.0	746.0	747.7	744.4
7.5°	724.4	727.7	739.4	752.7	766.0	785.9	797.5	804.2	807.5	810.8	807.5
10°	754.3	761.0	777.6	800.8	824.1	849.0	862.3	872.3	874.0	877.3	874.0
12.5°	789.2	800.8	825.8	859.0	887.2	912.2	922.1	915.5	900.5	893.9	892.2
15°	830.8	842.4	877.3	918.8	952.0	963.7	948.7	927.1	910.5	908.8	907.2
17.5°	867.3	883.9	932.1	975.3	1006.9	995.2	955.4	942.1	937.1	943.7	942.1
20°	913.8	927.1	975.3	1028.5	1045.1	1000.2	972.0	963.7	958.7	958.7	955.4
22.5°	952.0	962.0	1020.2	1078.3	1068.4	1003.6	983.6	967.0	950.4	948.7	943.7
25°	996.9	1000.2	1061.7	1124.8	1071.7	1006.9	972.0	943.7	927.1	922.1	923.8
27.5°	1038.4	1046.8	1099.9	1156.4	1063.4	988.6	932.1	895.6	870.6	869.0	869.0
30°	1091.6	1091.6	1139.8	1191.3	1045.1	942.1	867.3	814.1	794.2	792.5	789.2
32.5°	1151.4	1141.5	1188.0	1216.2	1005.2	878.9	779.2	719.4	687.9	681.2	676.2
35°	1234.5	1212.9	1246.1	1221.2	965.3	789.2	667.9	599.8	576.5	566.6	566.6
37.5°	1330.9	1299.3	1334.2	1206.3	903.9	684.5	551.6	500.1	475.2	460.2	465.2
40°	1443.9	1404.0	1423.9	1189.6	837.4	568.2	455.3	423.7	393.8	373.8	373.8
42.5°	1576.8	1510.3	1525.3	1173.0	742.7	466.9	393.8	372.2	348.9	329.0	334.0
45°	1704.7	1639.9	1625.0	1156.4	643.0	398.8	368.9	353.9	332.3	309.0	309.0
47.5°	1852.6	1769.5	1713.0	1126.5	545.0	377.2	375.5	353.9	312.4	279.1	275.8
50°	1992.2	1915.7	1792.8	1081.6	490.1	395.4	373.8	322.3	282.5	260.9	259.2
52.5°	2140.0	2060.3	1857.6	1026.8	461.9	387.1	343.9	295.7	265.8	244.2	239.3
55°	2286.2	2244.7	1915.7	973.6	417.0	360.5	319.0	279.1	247.6	227.6	224.3
57.5°	2452.4	2435.8	1965.6	920.5	347.3	327.3	300.7	267.5	237.6	222.6	221.0
60°	2596.9	2655.1	2025.4	880.6	295.7	302.4	292.4	265.8	244.2	227.6	227.6
62.5°	2749.8	2866.1	2078.6	829.1	257.5	287.4	294.1	264.2	235.9	221.0	221.0
65°	2882.7	3082.1	2133.4	734.4	231.0	275.8	289.1	245.9	212.7	201.0	197.7
66°	2939.2	3143.6	2150.0	676.2	221.0	267.5	280.8	235.9	202.7	192.7	191.1
67.5°	3005.7	3239.9	2169.9	551.6	206.0	249.2	262.5	221.0	186.1	179.4	176.1
70°	3098.7	3259.9	2158.3	360.5	179.4	214.3	234.3	197.7	166.2	161.2	156.2
72.5°	3108.7	3123.6	2042.0	227.6	156.2	184.4	206.0	177.8	146.2	141.2	137.9
75°	2944.2	2768.1	1728.0	162.8	137.9	162.8	181.1	154.5	121.3	114.6	111.3
77.5°	2513.9	2196.5	1242.8	121.3	119.6	139.6	151.2	134.6	101.4	96.4	94.7
80°	1764.5	1490.4	623.1	91.4	94.7	116.3	126.3	113.0	84.7	78.1	74.8
82.5°	714.5	633.0	214.3	68.1	71.4	88.1	108.0	93.0	64.8	56.5	49.8
85°	81.4	137.9	93.0	46.5	48.2	59.8	73.1	56.5	38.2	31.6	26.6
87.5°	16.6	29.9	33.2	18.3	16.6	23.3	33.2	19.9	13.3	5.0	6.6
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)