

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: P594545

Luminaire Tested: **ISS-PA1B-730-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594545  
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-PA1B-730-U-T2U  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4827 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

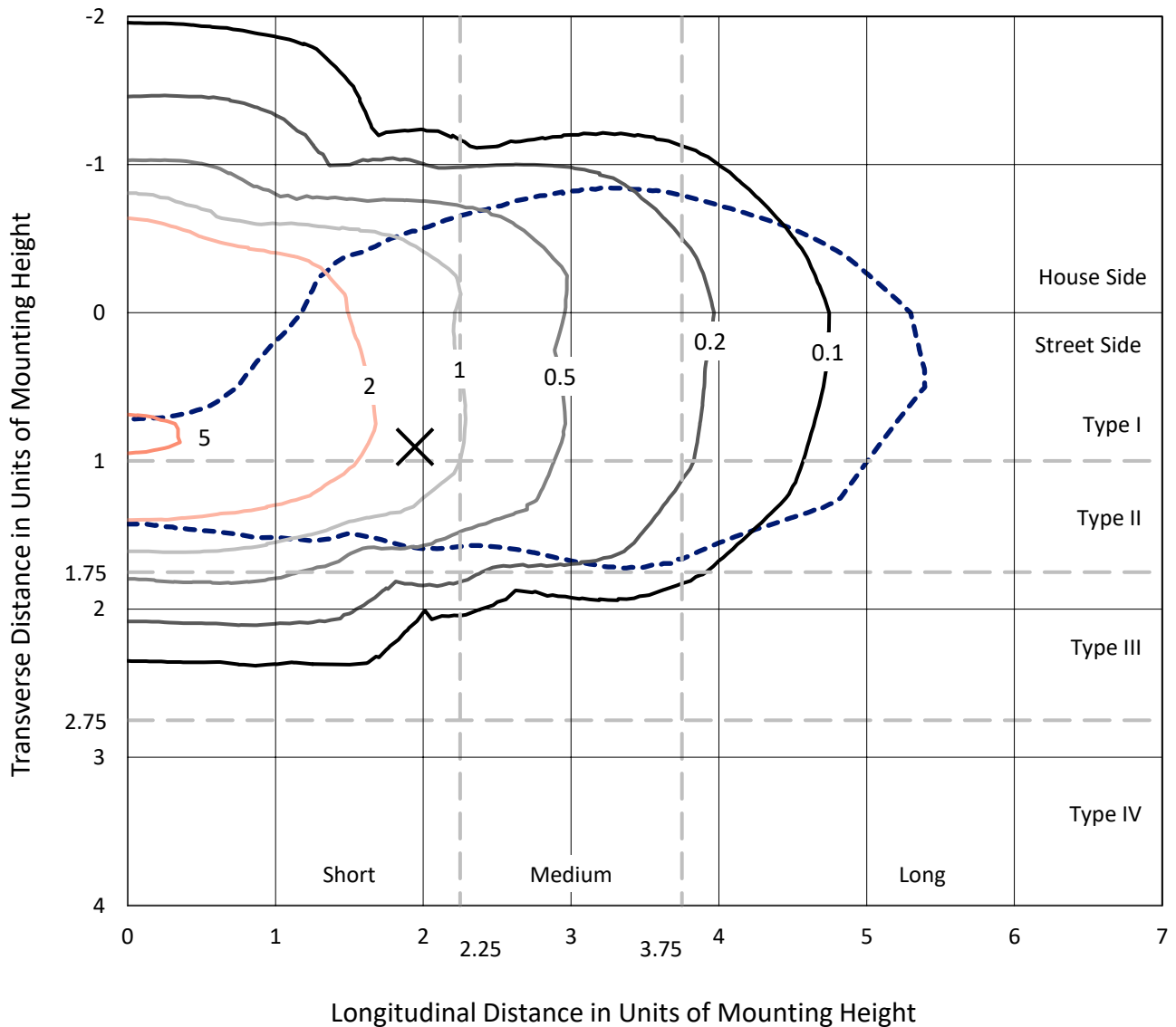
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

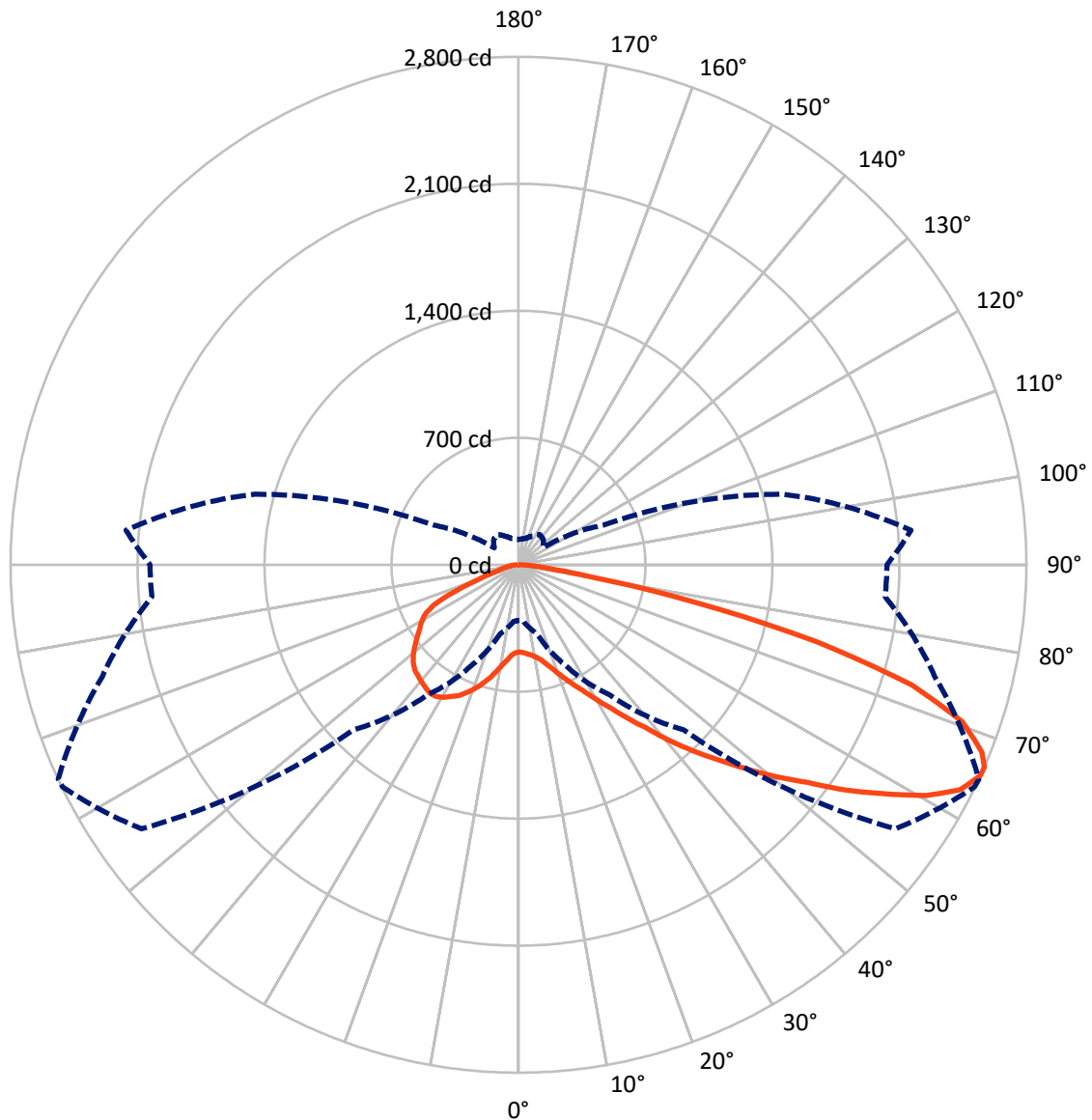
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	1465.7	0.0	1465.7
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	3361.3	0.0	3361.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	4827.0	0.0	4827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.0
10°-20°	171.1	3.5
20°-30°	335.0	6.9
30°-40°	547.5	11.3
40°-50°	869.0	18.0
50°-60°	1117.6	23.2
60°-70°	1007.9	20.9
70°-80°	625.1	13.0
80°-90°	104.7	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°	4827.0	100.0
0°-180°	4827.0	100.0

**Coefficient of Utilization**



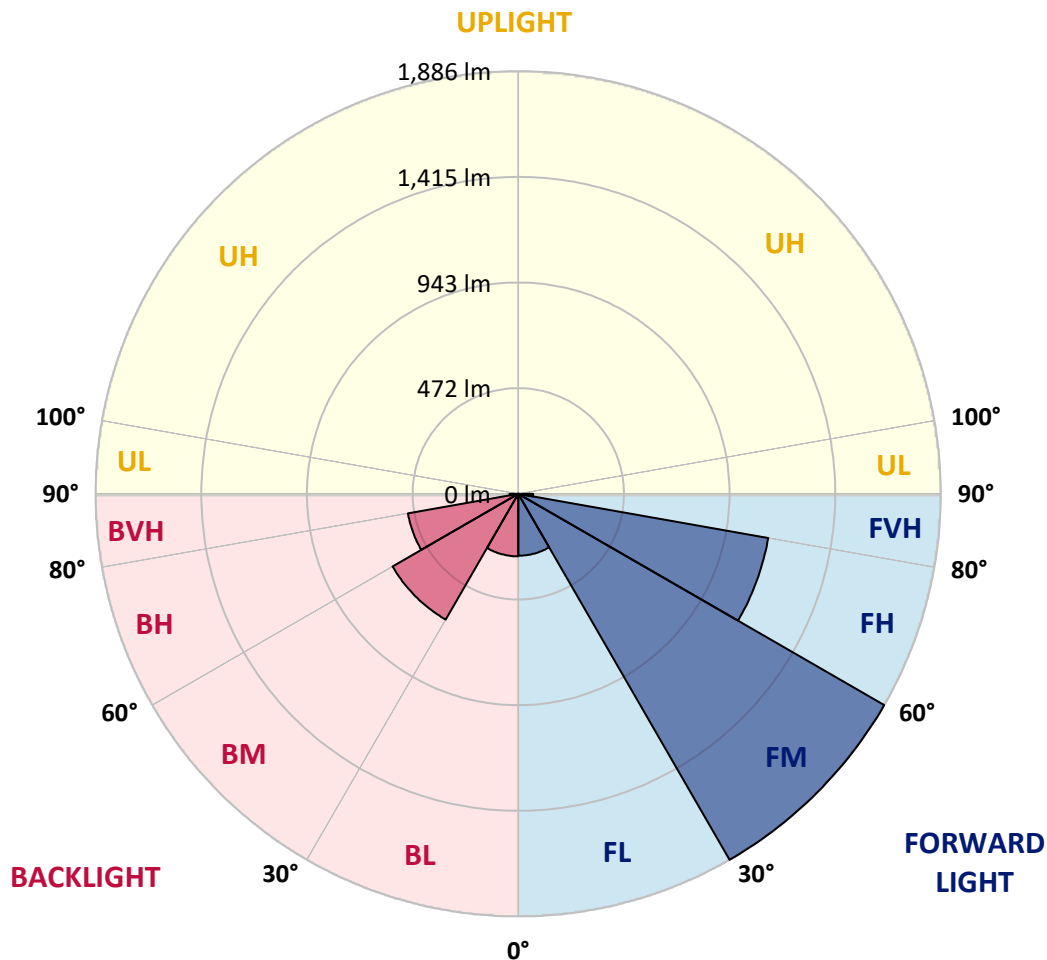
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.0	5.7			
FM (30°-60°)	1886.1	39.1			
FH (60°-80°)	1132.9	23.5			G1/1800
FVH (80°-90°)	66.3	1.4			G1/100
BL (0°-30°)	279.2	5.8	B1/500		
BM (30°-60°)	647.9	13.4	B1/1000		
BH (60°-80°)	500.1	10.4	B2/1000		G2/1000
BVH (80°-90°)	38.5	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°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	482.3	483.5	484.6	482.3	484.6	485.8	483.5	483.5	484.6	482.3	482.3
5°	478.8	480.0	482.3	483.5	488.2	490.5	491.7	491.7	492.8	491.7	492.8
7.5°	469.4	469.4	474.1	476.5	483.5	491.7	496.4	503.4	503.4	504.5	508.1
10°	478.8	478.8	482.3	485.8	491.7	498.7	505.7	513.9	516.3	524.5	529.1
12.5°	492.8	495.2	499.9	504.5	511.6	519.8	525.6	533.8	535.0	543.2	552.5
15°	516.3	518.6	520.9	526.8	536.2	546.7	557.2	563.1	565.4	570.1	577.1
17.5°	551.4	553.7	554.9	558.4	565.4	579.5	594.7	599.4	601.7	601.7	607.6
20°	611.1	609.9	607.6	600.5	600.5	613.4	634.5	642.7	645.0	640.3	636.8
22.5°	680.1	679.0	669.6	661.4	655.6	657.9	679.0	693.0	691.9	682.5	668.4
25°	770.3	772.6	757.4	736.3	718.8	714.1	727.0	741.0	743.4	725.8	702.4
27.5°	878.0	874.5	866.3	832.3	798.4	777.3	784.3	799.6	800.7	782.0	744.5
30°	1004.4	998.6	977.5	942.4	889.7	860.4	854.6	867.5	871.0	839.4	785.5
32.5°	1144.9	1139.0	1112.1	1058.3	1000.9	951.7	933.0	950.6	948.2	911.9	837.0
35°	1314.6	1313.5	1264.3	1197.6	1125.0	1059.4	1033.7	1033.7	1040.7	986.9	902.6
37.5°	1541.7	1551.1	1478.5	1374.3	1272.5	1184.7	1141.4	1139.0	1140.2	1081.7	976.3
40°	1746.6	1743.1	1701.0	1603.8	1455.1	1342.7	1278.3	1264.3	1267.8	1192.9	1072.3
42.5°	1864.8	1868.4	1857.8	1815.7	1685.7	1544.1	1434.0	1396.6	1397.8	1304.1	1163.6
45°	1938.6	1942.1	1940.9	1962.0	1910.5	1777.0	1620.2	1533.6	1528.9	1430.5	1271.3
47.5°	1980.7	1983.1	1998.3	2041.6	2083.8	2053.3	1826.2	1685.7	1676.4	1548.8	1379.0
50°	1933.9	1935.1	1996.0	2099.0	2202.0	2294.5	2036.9	1836.7	1834.4	1679.9	1484.4
52.5°	1688.1	1709.1	1843.8	2059.2	2289.8	2465.4	2280.4	2014.7	1994.8	1804.0	1589.7
55°	1377.9	1387.2	1541.7	1815.7	2273.4	2570.7	2464.2	2206.7	2192.6	1942.1	1692.8
57.5°	1075.8	1085.2	1269.0	1497.3	2022.9	2564.9	2594.2	2413.9	2382.3	2062.7	1795.8
60°	694.2	723.5	936.5	1217.5	1637.7	2387.0	2659.7	2612.9	2583.6	2182.1	1883.6
62.5°	471.8	476.5	609.9	902.6	1225.7	1939.8	2655.0	2735.8	2731.1	2301.5	1971.4
65°	306.7	313.7	394.5	611.1	876.8	1287.7	2538.0	2795.5	2800.2	2375.2	2028.7
66°	259.9	264.6	326.6	513.9	767.9	1020.8	2435.0	2790.8	2800.2	2409.2	2046.3
67.5°	225.9	229.4	261.1	379.3	627.5	734.0	2166.9	2728.8	2755.7	2440.8	2068.5
70°	194.3	199.0	228.3	258.7	448.4	428.5	1372.0	2569.6	2596.5	2456.0	2082.6
72.5°	160.4	163.9	193.2	234.1	325.4	288.0	605.2	2199.7	2267.5	2399.8	2060.3
75°	126.4	128.8	155.7	195.5	249.3	224.8	263.4	1613.2	1698.6	2115.4	1973.7
77.5°	98.3	99.5	120.6	152.2	228.3	174.4	162.7	785.5	993.9	1634.2	1738.4
80°	67.9	70.2	89.0	114.7	167.4	138.1	108.9	306.7	389.8	1085.2	1318.2
82.5°	44.5	45.7	60.9	86.6	111.2	132.3	71.4	148.7	163.9	499.9	571.3
85°	30.4	30.4	43.3	53.8	76.1	87.8	46.8	78.4	85.5	189.6	69.1
87.5°	15.2	15.2	21.1	28.1	36.3	33.9	28.1	28.1	28.1	62.0	19.9
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°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1
2.5°	483.5	483.5	484.6	485.8	487.0	487.0	488.2	488.2	487.0	488.2	489.3
5°	494.0	495.2	497.5	501.0	506.9	512.7	518.6	522.1	525.6	526.8	524.5
7.5°	510.4	512.7	520.9	530.3	539.7	553.7	561.9	566.6	568.9	571.3	568.9
10°	531.5	536.2	547.9	564.3	580.6	598.2	607.6	614.6	615.8	618.1	615.8
12.5°	556.1	564.3	581.8	605.2	625.1	642.7	649.7	645.0	634.5	629.8	628.6
15°	585.3	593.5	618.1	647.4	670.8	679.0	668.4	653.2	641.5	640.3	639.2
17.5°	611.1	622.8	656.7	687.2	709.4	701.2	673.1	663.8	660.2	664.9	663.8
20°	643.9	653.2	687.2	724.6	736.3	704.7	684.8	679.0	675.5	675.5	673.1
22.5°	670.8	677.8	718.8	759.8	752.7	707.1	693.0	681.3	669.6	668.4	664.9
25°	702.4	704.7	748.0	792.5	755.1	709.4	684.8	664.9	653.2	649.7	650.9
27.5°	731.7	737.5	775.0	814.8	749.2	696.5	656.7	631.0	613.4	612.2	612.2
30°	769.1	769.1	803.1	839.4	736.3	663.8	611.1	573.6	559.6	558.4	556.1
32.5°	811.3	804.2	837.0	856.9	708.2	619.3	549.0	506.9	484.6	480.0	476.5
35°	869.8	854.6	878.0	860.4	680.1	556.1	470.6	422.6	406.2	399.2	399.2
37.5°	937.7	915.4	940.0	849.9	636.8	482.3	388.7	352.4	334.8	324.3	327.8
40°	1017.3	989.2	1003.2	838.2	590.0	400.4	320.8	298.5	277.4	263.4	263.4
42.5°	1110.9	1064.1	1074.7	826.5	523.3	329.0	277.4	262.2	245.8	231.8	235.3
45°	1201.1	1155.4	1144.9	814.8	453.0	281.0	259.9	249.3	234.1	217.7	217.7
47.5°	1305.3	1246.7	1206.9	793.7	384.0	265.7	264.6	249.3	220.1	196.7	194.3
50°	1403.6	1349.8	1263.1	762.1	345.3	278.6	263.4	227.1	199.0	183.8	182.6
52.5°	1507.8	1451.6	1308.8	723.5	325.4	272.8	242.3	208.4	187.3	172.1	168.6
55°	1610.8	1581.5	1349.8	686.0	293.8	254.0	224.8	196.7	174.4	160.4	158.0
57.5°	1727.9	1716.2	1384.9	648.5	244.7	230.6	211.9	188.5	167.4	156.9	155.7
60°	1829.7	1870.7	1427.0	620.4	208.4	213.1	206.0	187.3	172.1	160.4	160.4
62.5°	1937.4	2019.4	1464.5	584.2	181.5	202.5	207.2	186.1	166.2	155.7	155.7
65°	2031.1	2171.6	1503.1	517.4	162.7	194.3	203.7	173.3	149.8	141.6	139.3
66°	2070.9	2214.9	1514.8	476.5	155.7	188.5	197.8	166.2	142.8	135.8	134.6
67.5°	2117.7	2282.8	1528.9	388.7	145.2	175.6	185.0	155.7	131.1	126.4	124.1
70°	2183.3	2296.8	1520.7	254.0	126.4	151.0	165.1	139.3	117.1	113.6	110.0
72.5°	2190.3	2200.8	1438.7	160.4	110.0	129.9	145.2	125.3	103.0	99.5	97.2
75°	2074.4	1950.3	1217.5	114.7	97.2	114.7	127.6	108.9	85.5	80.8	78.4
77.5°	1771.2	1547.6	875.6	85.5	84.3	98.3	106.5	94.8	71.4	67.9	66.7
80°	1243.2	1050.1	439.0	64.4	66.7	81.9	89.0	79.6	59.7	55.0	52.7
82.5°	503.4	446.0	151.0	48.0	50.3	62.0	76.1	65.6	45.7	39.8	35.1
85°	57.4	97.2	65.6	32.8	33.9	42.1	51.5	39.8	26.9	22.2	18.7
87.5°	11.7	21.1	23.4	12.9	11.7	16.4	23.4	14.0	9.4	3.5	4.7
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)