

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: P594867

Luminaire Tested: **ISS-PA1F-730-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-730-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10701 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

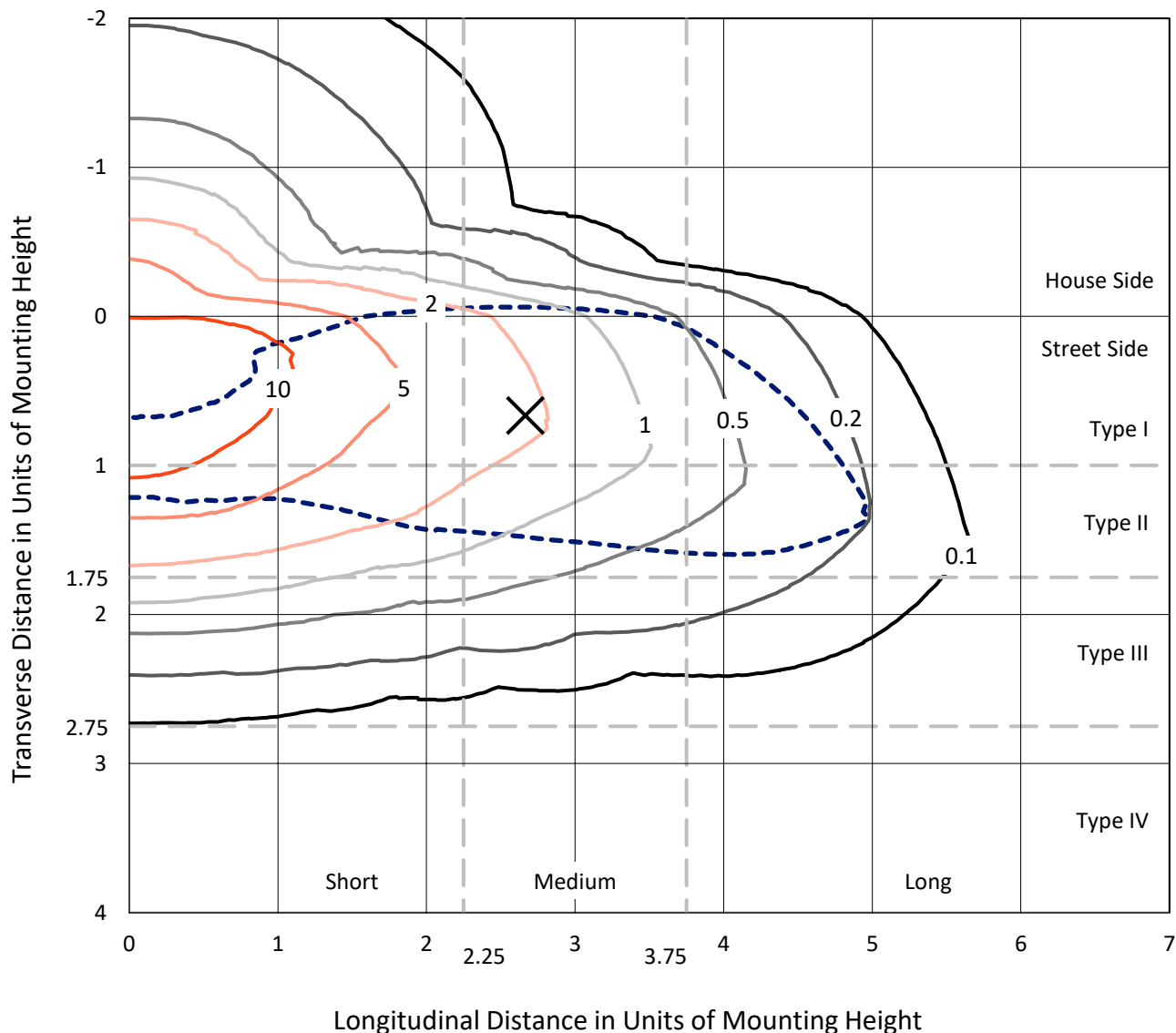
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

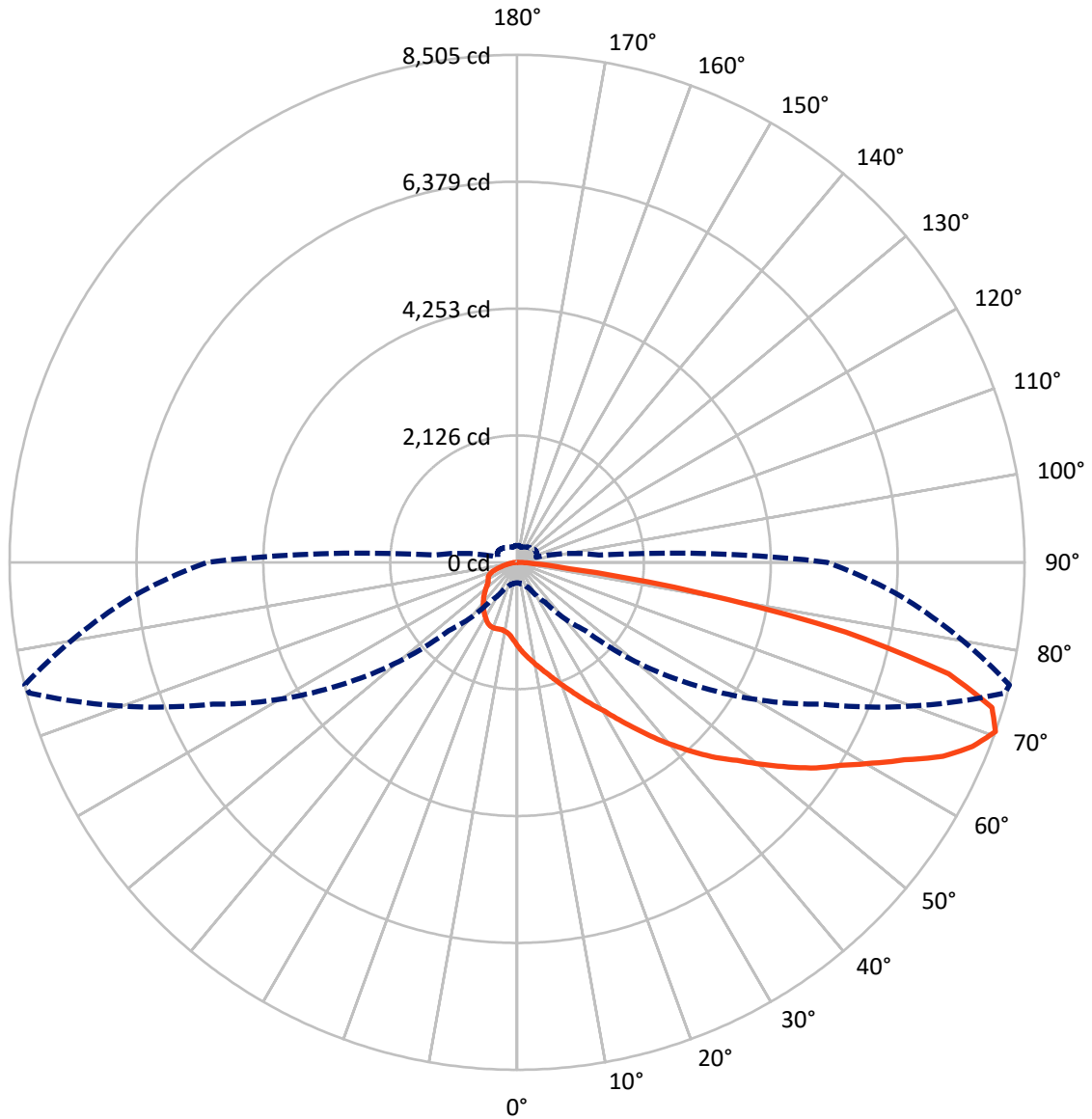
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1716.3	0.0	1716.3
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	8984.7	0.0	8984.7
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	10701.0	0.0	10701.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.8	1.3
10°-20°	451.5	4.2
20°-30°	832.0	7.8
30°-40°	1394.0	13.0
40°-50°	1980.8	18.5
50°-60°	2287.0	21.4
60°-70°	2102.4	19.6
70°-80°	1325.7	12.4
80°-90°	190.7	1.8
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°	10701.0	100.0
0°-180°	10701.0	100.0

**Coefficient of Utilization**

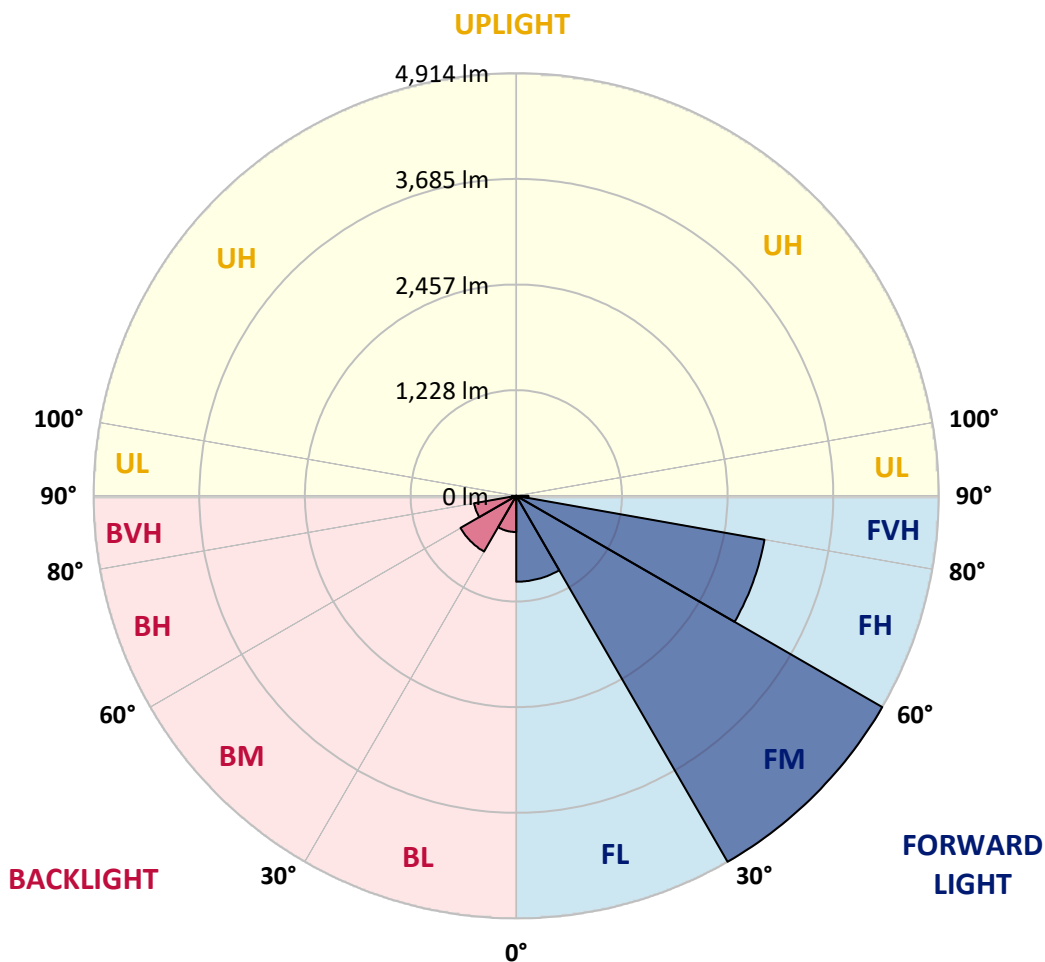


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.1	9.3			
FM (30°-60°)	4913.7	45.9			
FH (60°-80°)	2930.6	27.4			G2/5000
FVH (80°-90°)	141.3	1.3			G2/225
BL (0°-30°)	421.3	3.9	B1/500		
BM (30°-60°)	748.3	7.0	B1/1000		
BH (60°-80°)	497.5	4.6	B1/500		G1/500
BVH (80°-90°)	49.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1689.7	1687.1	1679.4	1666.5	1656.2	1625.3	1584.1	1548.1	1494.0	1488.8	1434.7
5°	1841.7	1831.4	1831.4	1818.5	1805.6	1772.2	1720.6	1656.2	1579.0	1573.8	1470.8
7.5°	1913.8	1916.4	1911.2	1900.9	1903.5	1875.2	1828.8	1764.4	1658.8	1653.7	1519.7
10°	2016.9	2014.3	2004.0	1996.2	1993.7	1967.9	1926.7	1867.5	1756.7	1746.4	1576.4
12.5°	2117.3	2109.6	2112.2	2109.6	2104.4	2078.7	2040.0	1980.8	1844.3	1839.1	1645.9
15°	2174.0	2171.4	2189.4	2194.6	2215.2	2192.0	2158.5	2091.6	1967.9	1947.3	1728.4
17.5°	2210.0	2207.5	2225.5	2266.7	2305.3	2305.3	2295.0	2222.9	2086.4	2070.9	1821.1
20°	2271.9	2282.2	2313.1	2346.6	2403.2	2413.5	2410.9	2380.0	2222.9	2207.5	1924.1
22.5°	2395.5	2390.3	2416.1	2467.6	2519.1	2534.6	2537.2	2537.2	2380.0	2351.7	2029.7
25°	2660.8	2647.9	2627.3	2622.2	2684.0	2681.4	2673.7	2691.7	2544.9	2524.3	2150.8
27.5°	3165.7	3137.3	3057.5	2897.8	2861.7	2874.6	2836.0	2838.5	2732.9	2707.2	2253.8
30°	3644.8	3631.9	3557.2	3364.0	3160.5	3088.4	3021.4	2993.1	2941.6	2897.8	2364.6
32.5°	4077.5	4080.1	3989.9	3778.7	3570.1	3343.4	3227.5	3168.2	3188.8	3150.2	2516.6
35°	4371.1	4348.0	4291.3	4149.6	3922.9	3706.6	3485.1	3353.7	3464.5	3420.7	2668.5
37.5°	4543.7	4525.7	4479.3	4378.9	4265.5	4056.9	3776.1	3575.2	3791.6	3727.2	2861.7
40°	4631.3	4605.5	4559.2	4518.0	4463.9	4350.5	4103.3	3827.6	4090.4	4033.7	3052.3
42.5°	4641.6	4623.6	4597.8	4577.2	4595.2	4579.8	4422.7	4121.3	4404.6	4342.8	3271.3
45°	4633.9	4646.7	4615.8	4579.8	4615.8	4747.2	4747.2	4414.9	4716.3	4669.9	3479.9
47.5°	4639.0	4626.1	4615.8	4605.5	4610.7	4791.0	4971.3	4690.5	5015.1	4961.0	3724.6
50°	4425.2	4443.3	4530.8	4569.5	4592.7	4801.3	5151.6	4989.3	5386.0	5319.0	3997.6
52.5°	3745.2	3755.5	4154.8	4443.3	4536.0	4760.1	5277.8	5321.6	5751.8	5700.2	4291.3
55°	2884.9	2939.0	3317.6	4023.4	4407.2	4690.5	5316.5	5538.0	6125.3	6084.0	4587.5
57.5°	2374.9	2382.6	2601.6	3232.6	4000.2	4626.1	5355.1	5736.3	6460.1	6413.7	4896.6
60°	1970.5	1952.5	2086.4	2493.4	3322.8	4368.6	5362.8	5893.4	6849.1	6833.6	5216.0
62.5°	1447.6	1468.2	1597.0	1942.2	2599.0	3845.7	5324.2	6027.4	7312.7	7292.1	5571.5
65°	888.7	914.4	1071.5	1388.4	1967.9	3052.3	5071.8	6096.9	7799.5	7845.9	5955.3
67.5°	471.4	489.4	582.1	839.7	1349.7	2325.9	4463.9	6009.3	8211.7	8232.3	6323.6
70°	345.2	347.7	378.6	473.9	814.0	1617.6	3554.6	5628.1	8464.1	8505.3	6444.7
72.5°	301.4	303.9	316.8	340.0	443.0	986.5	2547.5	4963.6	8358.5	8322.4	6241.2
75°	273.0	273.0	283.3	291.1	324.6	546.1	1560.9	4062.0	7552.2	7472.4	5321.6
77.5°	234.4	234.4	244.7	255.0	280.8	352.9	816.5	3011.1	5774.9	5638.4	3639.6
80°	188.0	188.0	200.9	213.8	247.3	265.3	399.2	2014.3	3302.2	3101.3	1656.2
82.5°	128.8	139.1	162.3	177.7	206.1	188.0	234.4	870.6	1040.6	901.5	373.5
85°	77.3	82.4	115.9	133.9	154.5	100.5	144.2	334.9	311.7	273.0	85.0
87.5°	7.7	12.9	46.4	54.1	54.1	28.3	61.8	79.8	90.2	92.7	20.6
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°	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1403.8	1372.9	1313.7	1259.6	1205.5	1169.4	1133.4	1120.5	1102.4	1089.6	1099.9
5°	1416.7	1352.3	1239.0	1143.7	1079.3	1030.3	1007.1	994.3	984.0	981.4	978.8
7.5°	1432.1	1336.8	1184.9	1079.3	1017.4	994.3	989.1	989.1	989.1	991.7	994.3
10°	1465.6	1342.0	1156.5	1043.2	1009.7	1004.6	1007.1	1017.4	1017.4	1020.0	1020.0
12.5°	1504.3	1354.9	1135.9	1038.0	1017.4	1020.0	1022.6	1027.7	1027.7	1035.5	1032.9
15°	1560.9	1380.6	1133.4	1043.2	1025.2	1020.0	1020.0	1017.4	1017.4	1017.4	1022.6
17.5°	1633.1	1416.7	1135.9	1043.2	1017.4	1007.1	999.4	991.7	981.4	986.5	981.4
20°	1705.2	1460.5	1135.9	1030.3	996.8	971.1	947.9	935.0	922.1	919.6	922.1
22.5°	1795.3	1512.0	1123.0	1002.0	953.0	917.0	883.5	865.5	844.9	837.1	832.0
25°	1872.6	1553.2	1097.3	960.8	904.1	852.6	808.8	777.9	752.1	747.0	747.0
27.5°	1952.5	1589.3	1058.7	909.3	834.6	777.9	729.0	690.3	664.6	662.0	659.4
30°	2027.2	1620.2	1007.1	852.6	772.7	705.8	649.1	615.6	592.4	579.6	571.8
32.5°	2125.0	1661.4	958.2	795.9	700.6	633.6	582.1	553.8	522.9	502.3	494.6
35°	2248.7	1710.3	904.1	734.1	636.2	569.3	538.3	497.1	458.5	435.3	427.6
37.5°	2387.8	1779.9	847.4	669.7	571.8	522.9	504.9	440.5	399.2	391.5	388.9
40°	2560.3	1846.8	783.0	602.7	510.0	497.1	466.2	399.2	378.6	376.1	373.5
42.5°	2732.9	1919.0	721.2	535.8	461.1	466.2	422.4	388.9	370.9	365.8	363.2
45°	2933.8	1991.1	659.4	476.5	422.4	422.4	399.2	378.6	363.2	358.0	358.0
47.5°	3145.1	2063.2	592.4	425.0	394.1	378.6	381.2	365.8	355.5	350.3	347.7
50°	3410.4	2132.8	530.6	388.9	376.1	355.5	363.2	352.9	347.7	342.6	340.0
52.5°	3660.2	2163.7	473.9	368.3	365.8	345.2	347.7	342.6	340.0	332.3	329.7
55°	3904.9	2155.9	430.2	358.0	352.9	342.6	337.4	334.9	332.3	324.6	322.0
57.5°	4177.9	2145.6	401.8	355.5	345.2	334.9	334.9	327.1	316.8	316.8	316.8
60°	4461.3	2112.2	388.9	355.5	342.6	334.9	329.7	322.0	311.7	314.2	311.7
62.5°	4780.7	2047.8	381.2	363.2	345.2	332.3	327.1	316.8	303.9	306.5	303.9
65°	5061.4	1916.4	376.1	370.9	350.3	334.9	322.0	309.1	293.6	296.2	293.6
67.5°	5252.1	1694.9	360.6	376.1	358.0	332.3	316.8	298.8	278.2	288.5	285.9
70°	5198.0	1378.1	332.3	365.8	365.8	334.9	309.1	285.9	262.7	283.3	275.6
72.5°	4778.1	1035.5	278.2	329.7	360.6	334.9	293.6	265.3	244.7	257.6	242.1
75°	3922.9	703.2	221.5	262.7	337.4	337.4	280.8	244.7	218.9	211.2	206.1
77.5°	2447.0	437.9	172.6	193.2	283.3	334.9	267.9	218.9	182.9	177.7	172.6
80°	968.5	234.4	136.5	139.1	208.6	306.5	249.9	185.5	146.8	141.7	131.4
82.5°	221.5	118.5	95.3	92.7	128.8	249.9	226.7	146.8	113.3	113.3	95.3
85°	67.0	61.8	61.8	59.2	64.4	128.8	175.2	100.5	77.3	54.1	46.4
87.5°	18.0	25.8	23.2	20.6	20.6	18.0	56.7	25.8	15.5	7.7	5.2
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)