

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: P595128

Luminaire Tested: **IST-PA1C-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595128  
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: IST-PA1C-735-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6277 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

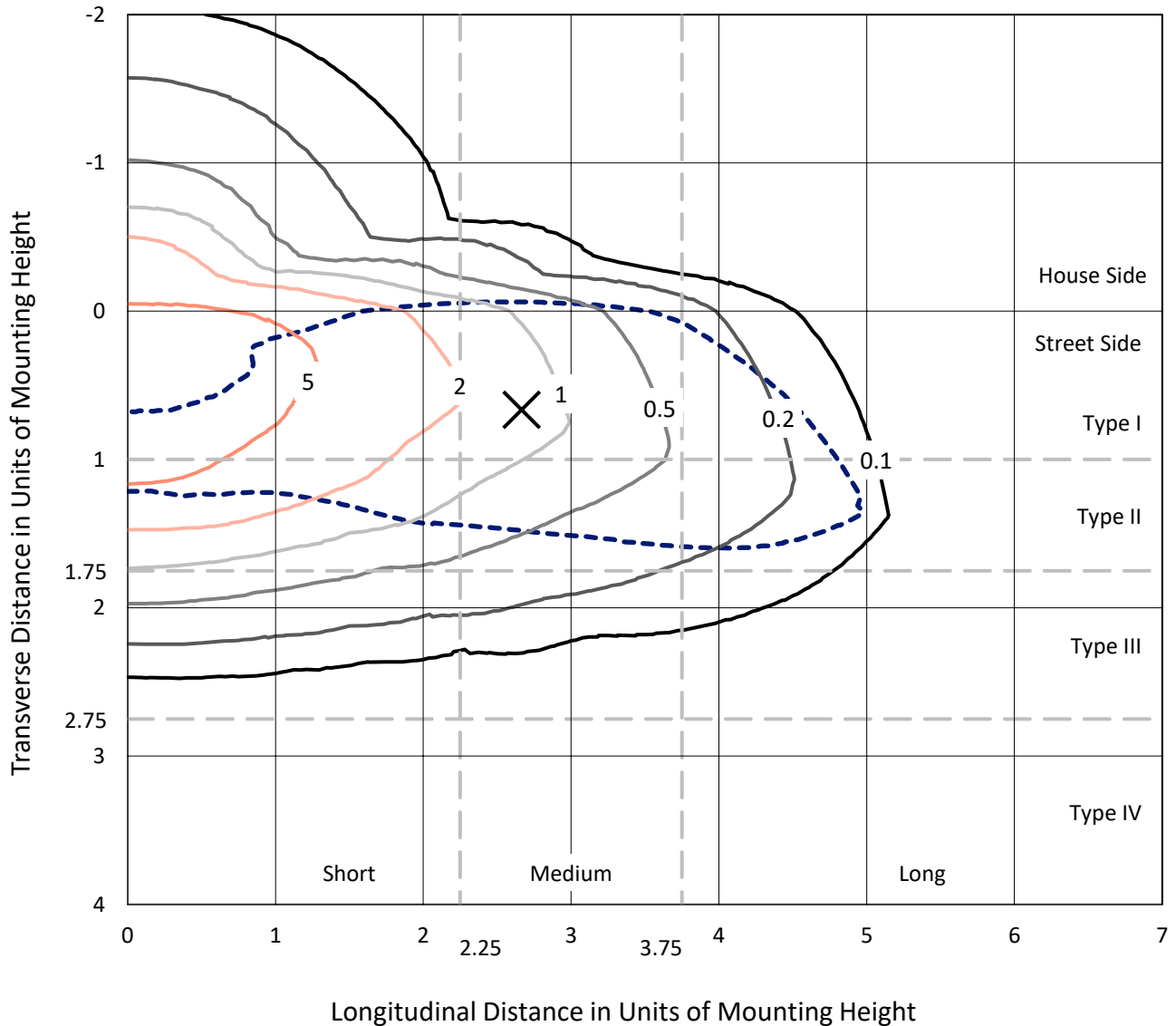
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

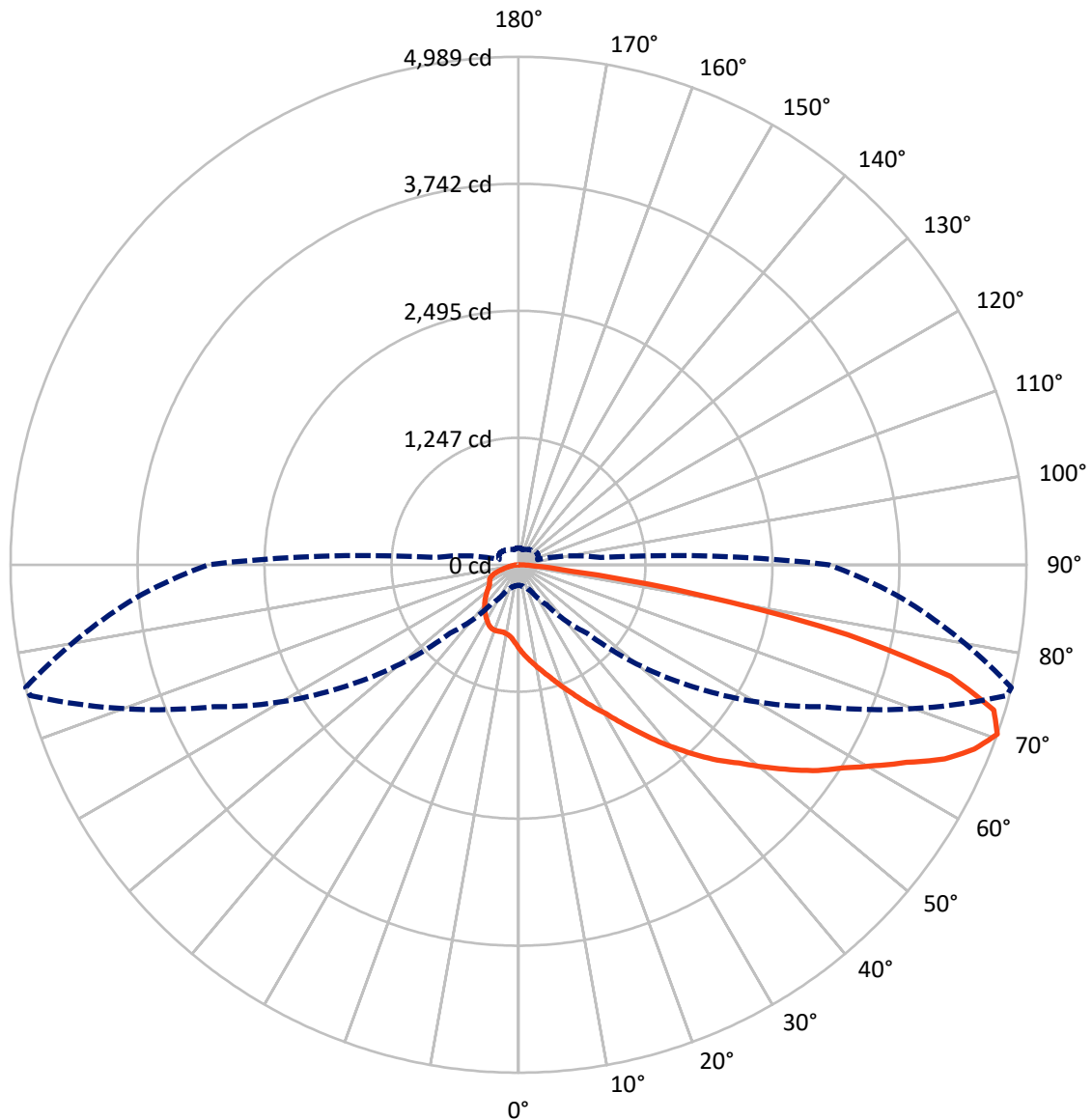
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.9 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	1006.8	0.0	1006.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	5270.2	0.0	5270.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	6277.0	0.0	6277.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	1.3
10°-20°	264.8	4.2
20°-30°	488.1	7.8
30°-40°	817.7	13.0
40°-50°	1161.9	18.5
50°-60°	1341.5	21.4
60°-70°	1233.2	19.6
70°-80°	777.6	12.4
80°-90°	111.8	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°	6277.0	100.0
0°-180°	6277.0	100.0

**Coefficient of Utilization**

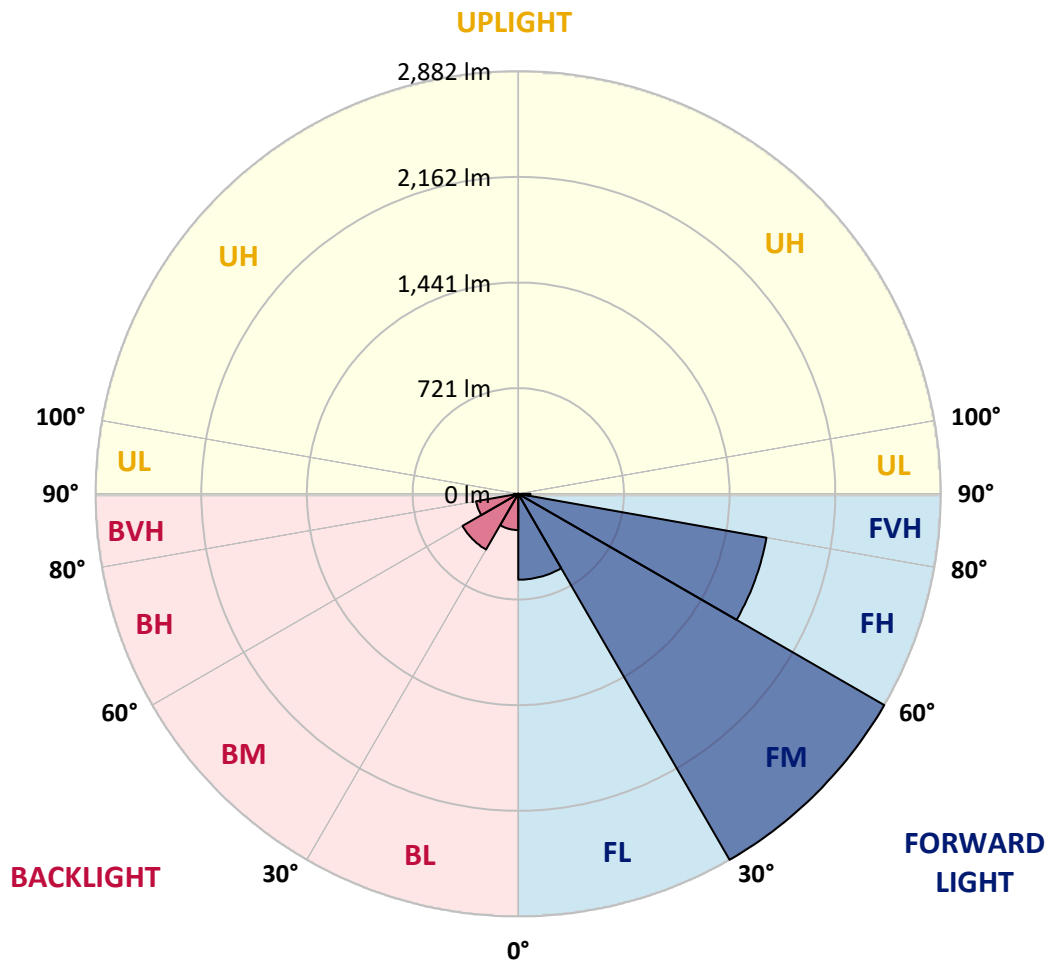


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.0	9.3			
FM (30°-60°)	2882.3	45.9			
FH (60°-80°)	1719.0	27.4			G1/1800
FVH (80°-90°)	82.9	1.3			G1/100
BL (0°-30°)	247.1	3.9	B1/500		
BM (30°-60°)	438.9	7.0	B1/1000		
BH (60°-80°)	291.8	4.6	B1/500		G1/500
BVH (80°-90°)	28.9	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-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4
2.5°	991.2	989.6	985.1	977.6	971.5	953.4	929.2	908.1	876.3	873.3	841.6
5°	1080.3	1074.3	1074.3	1066.7	1059.2	1039.5	1009.3	971.5	926.2	923.2	862.7
7.5°	1122.6	1124.1	1121.1	1115.1	1116.6	1099.9	1072.7	1035.0	973.0	970.0	891.4
10°	1183.0	1181.5	1175.5	1171.0	1169.4	1154.3	1130.2	1095.4	1030.4	1024.4	924.7
12.5°	1242.0	1237.4	1239.0	1237.4	1234.4	1219.3	1196.6	1161.9	1081.8	1078.8	965.5
15°	1275.2	1273.7	1284.3	1287.3	1299.4	1285.8	1266.1	1226.9	1154.3	1142.3	1013.8
17.5°	1296.4	1294.9	1305.4	1329.6	1352.3	1352.3	1346.2	1303.9	1223.8	1214.8	1068.2
20°	1332.6	1338.7	1356.8	1376.4	1409.7	1415.7	1414.2	1396.1	1303.9	1294.9	1128.7
22.5°	1405.2	1402.1	1417.2	1447.5	1477.7	1486.7	1488.3	1488.3	1396.1	1379.5	1190.6
25°	1560.8	1553.2	1541.1	1538.1	1574.4	1572.9	1568.3	1578.9	1492.8	1480.7	1261.6
27.5°	1856.9	1840.3	1793.5	1699.8	1678.6	1686.2	1663.5	1665.0	1603.1	1588.0	1322.1
30°	2137.9	2130.4	2086.6	1973.3	1853.9	1811.6	1772.3	1755.7	1725.5	1699.8	1387.0
32.5°	2391.8	2393.3	2340.4	2216.5	2094.1	1961.2	1893.2	1858.4	1870.5	1847.8	1476.2
35°	2564.0	2550.4	2517.2	2434.1	2301.1	2174.2	2044.3	1967.2	2032.2	2006.5	1565.3
37.5°	2665.3	2654.7	2627.5	2568.6	2502.1	2379.7	2215.0	2097.2	2224.1	2186.3	1678.6
40°	2716.6	2701.5	2674.3	2650.1	2618.4	2551.9	2406.9	2245.2	2399.3	2366.1	1790.4
42.5°	2722.7	2712.1	2697.0	2684.9	2695.5	2686.4	2594.2	2417.5	2583.7	2547.4	1918.9
45°	2718.1	2725.7	2707.6	2686.4	2707.6	2784.6	2784.6	2589.7	2766.5	2739.3	2041.2
47.5°	2721.2	2713.6	2707.6	2701.5	2704.5	2810.3	2916.1	2751.4	2941.8	2910.0	2184.8
50°	2595.8	2606.3	2657.7	2680.4	2694.0	2816.3	3021.8	2926.6	3159.3	3120.0	2344.9
52.5°	2196.9	2202.9	2437.1	2606.3	2660.7	2792.2	3095.9	3121.6	3373.9	3343.7	2517.2
55°	1692.2	1724.0	1946.1	2360.0	2585.2	2751.4	3118.5	3248.5	3593.0	3568.8	2690.9
57.5°	1393.1	1397.6	1526.0	1896.2	2346.5	2713.6	3141.2	3364.8	3789.4	3762.2	2872.2
60°	1155.9	1145.3	1223.8	1462.6	1949.1	2562.5	3145.7	3457.0	4017.5	4008.5	3059.6
62.5°	849.1	861.2	936.8	1139.2	1524.5	2255.8	3123.1	3535.5	4289.5	4277.4	3268.1
65°	521.3	536.4	628.5	814.4	1154.3	1790.4	2975.0	3576.3	4575.1	4602.2	3493.2
67.5°	276.5	287.1	341.5	492.6	791.7	1364.4	2618.4	3525.0	4816.8	4828.9	3709.3
70°	202.5	204.0	222.1	278.0	477.4	948.9	2085.1	3301.3	4964.9	4989.0	3780.3
72.5°	176.8	178.3	185.8	199.4	259.9	578.7	1494.3	2911.5	4902.9	4881.8	3660.9
75°	160.2	160.2	166.2	170.7	190.4	320.3	915.6	2382.7	4430.0	4383.2	3121.6
77.5°	137.5	137.5	143.5	149.6	164.7	207.0	479.0	1766.3	3387.5	3307.4	2134.9
80°	110.3	110.3	117.9	125.4	145.0	155.6	234.2	1181.5	1937.0	1819.1	971.5
82.5°	75.5	81.6	95.2	104.3	120.9	110.3	137.5	510.7	610.4	528.8	219.1
85°	45.3	48.3	68.0	78.6	90.7	58.9	84.6	196.4	182.8	160.2	49.9
87.5°	4.5	7.6	27.2	31.7	31.7	16.6	36.3	46.8	52.9	54.4	12.1
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°	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4	823.4
2.5°	823.4	805.3	770.6	738.8	707.1	686.0	664.8	657.2	646.7	639.1	645.2
5°	831.0	793.2	726.8	670.8	633.1	604.4	590.8	583.2	577.2	575.7	574.1
7.5°	840.1	784.2	695.0	633.1	596.8	583.2	580.2	580.2	580.2	581.7	583.2
10°	859.7	787.2	678.4	611.9	592.3	589.3	590.8	596.8	596.8	598.3	598.3
12.5°	882.4	794.7	666.3	608.9	596.8	598.3	599.8	602.9	602.9	607.4	605.9
15°	915.6	809.9	664.8	611.9	601.3	598.3	598.3	596.8	596.8	596.8	599.8
17.5°	957.9	831.0	666.3	611.9	596.8	590.8	586.2	581.7	575.7	578.7	575.7
20°	1000.2	856.7	666.3	604.4	584.7	569.6	556.0	548.5	540.9	539.4	540.9
22.5°	1053.1	886.9	658.8	587.7	559.0	537.9	518.2	507.7	495.6	491.0	488.0
25°	1098.4	911.1	643.6	563.6	530.3	500.1	474.4	456.3	441.2	438.2	438.2
27.5°	1145.3	932.2	621.0	533.4	489.5	456.3	427.6	404.9	389.8	388.3	386.8
30°	1189.1	950.4	590.8	500.1	453.3	414.0	380.8	361.1	347.5	340.0	335.4
32.5°	1246.5	974.5	562.1	466.9	411.0	371.7	341.5	324.8	306.7	294.6	290.1
35°	1319.0	1003.2	530.3	430.6	373.2	333.9	315.8	291.6	268.9	255.3	250.8
37.5°	1400.6	1044.0	497.1	392.8	335.4	306.7	296.1	258.4	234.2	229.7	228.1
40°	1501.8	1083.3	459.3	353.6	299.2	291.6	273.5	234.2	222.1	220.6	219.1
42.5°	1603.1	1125.6	423.1	314.3	270.5	273.5	247.8	228.1	217.6	214.5	213.0
45°	1720.9	1167.9	386.8	279.5	247.8	247.8	234.2	222.1	213.0	210.0	210.0
47.5°	1844.8	1210.2	347.5	249.3	231.2	222.1	223.6	214.5	208.5	205.5	204.0
50°	2000.5	1251.0	311.2	228.1	220.6	208.5	213.0	207.0	204.0	201.0	199.4
52.5°	2147.0	1269.2	278.0	216.1	214.5	202.5	204.0	201.0	199.4	194.9	193.4
55°	2290.5	1264.6	252.3	210.0	207.0	201.0	197.9	196.4	194.9	190.4	188.9
57.5°	2450.7	1258.6	235.7	208.5	202.5	196.4	196.4	191.9	185.8	185.8	185.8
60°	2616.9	1239.0	228.1	208.5	201.0	196.4	193.4	188.9	182.8	184.3	182.8
62.5°	2804.3	1201.2	223.6	213.0	202.5	194.9	191.9	185.8	178.3	179.8	178.3
65°	2968.9	1124.1	220.6	217.6	205.5	196.4	188.9	181.3	172.2	173.8	172.2
67.5°	3080.8	994.2	211.5	220.6	210.0	194.9	185.8	175.3	163.2	169.2	167.7
70°	3049.0	808.3	194.9	214.5	214.5	196.4	181.3	167.7	154.1	166.2	161.7
72.5°	2802.7	607.4	163.2	193.4	211.5	196.4	172.2	155.6	143.5	151.1	142.0
75°	2301.1	412.5	129.9	154.1	197.9	197.9	164.7	143.5	128.4	123.9	120.9
77.5°	1435.4	256.9	101.2	113.3	166.2	196.4	157.1	128.4	107.3	104.3	101.2
80°	568.1	137.5	80.1	81.6	122.4	179.8	146.6	108.8	86.1	83.1	77.1
82.5°	129.9	69.5	55.9	54.4	75.5	146.6	133.0	86.1	66.5	66.5	55.9
85°	39.3	36.3	36.3	34.8	37.8	75.5	102.7	58.9	45.3	31.7	27.2
87.5°	10.6	15.1	13.6	12.1	12.1	10.6	33.2	15.1	9.1	4.5	3.0
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)