

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: P595110

Luminaire Tested: **IST-PA1C-727-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595110  
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-727-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 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: 5635 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

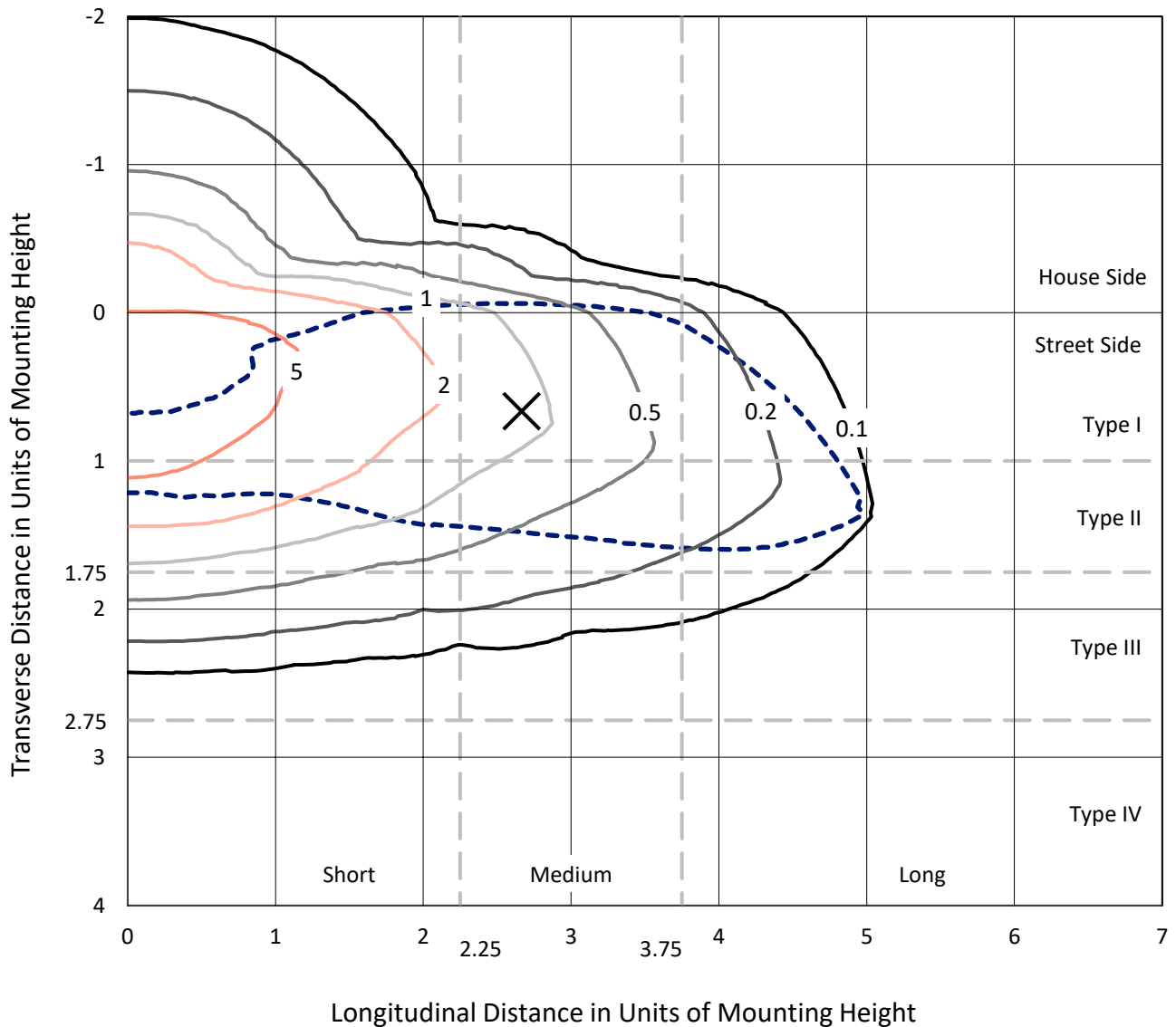
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

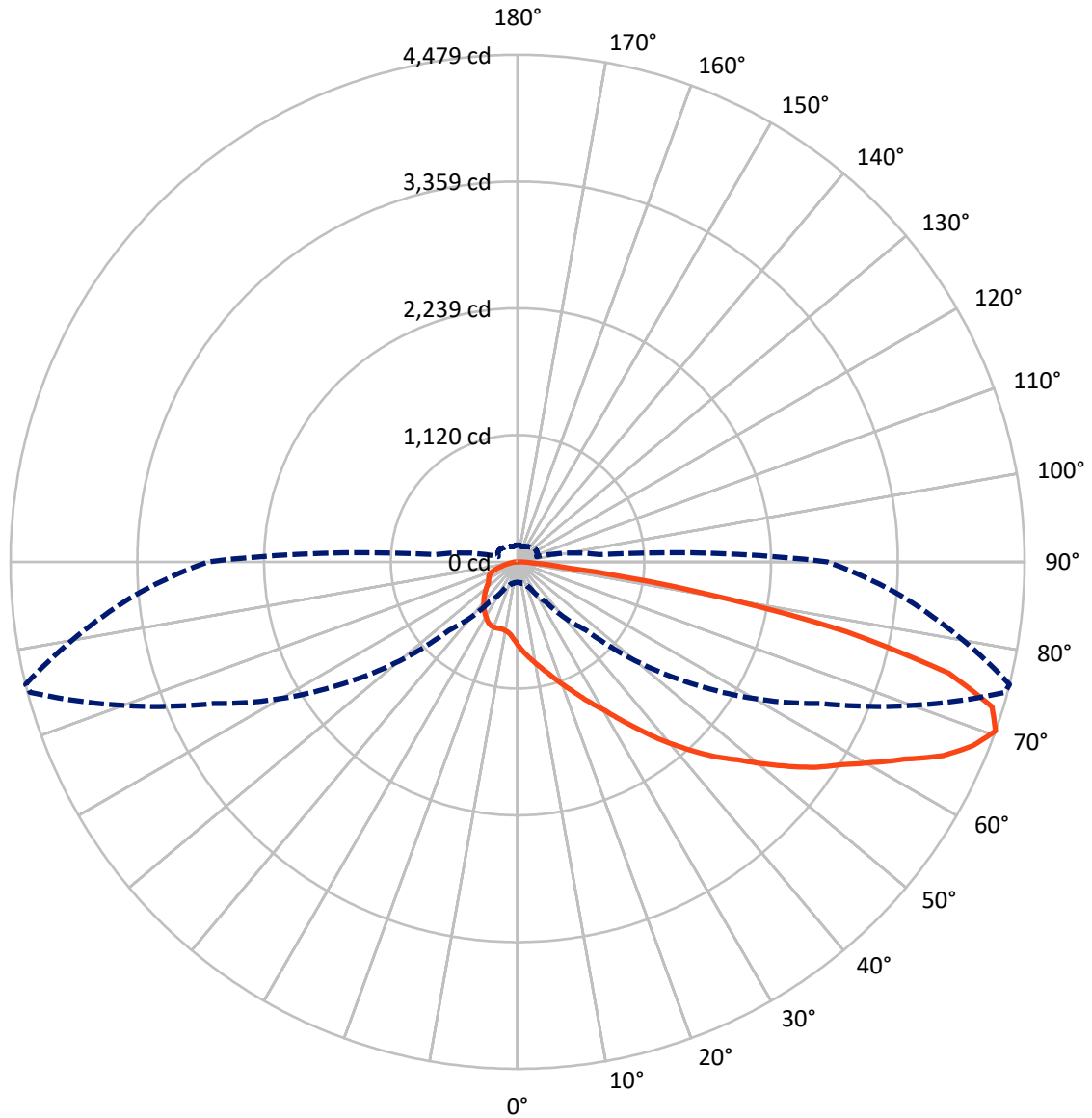
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.9 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	903.8	0.0	903.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	4731.2	0.0	4731.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	5635.0	0.0	5635.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	1.3
10°-20°	237.7	4.2
20°-30°	438.1	7.8
30°-40°	734.1	13.0
40°-50°	1043.1	18.5
50°-60°	1204.3	21.4
60°-70°	1107.1	19.6
70°-80°	698.1	12.4
80°-90°	100.4	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°	5635.0	100.0
0°-180°	5635.0	100.0

**Coefficient of Utilization**

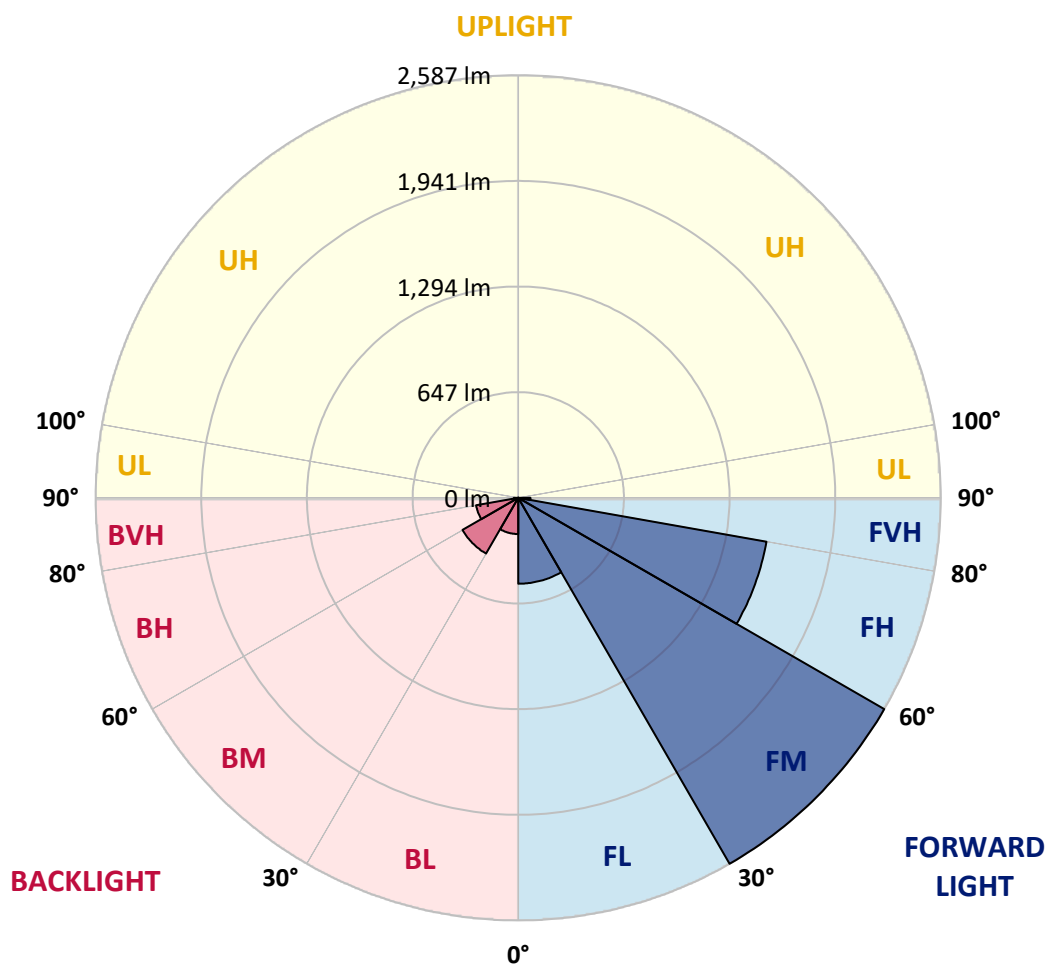


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.1	9.3			
FM (30°-60°)	2587.5	45.9			
FH (60°-80°)	1543.2	27.4			G1/1800
FVH (80°-90°)	74.4	1.3			G1/100
BL (0°-30°)	221.9	3.9	B1/500		
BM (30°-60°)	394.0	7.0	B1/1000		
BH (60°-80°)	262.0	4.6	B1/500		G1/500
BVH (80°-90°)	26.0	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°	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2
2.5°	889.8	888.4	884.4	877.6	872.2	855.9	834.2	815.2	786.7	784.0	755.5
5°	969.8	964.4	964.4	957.6	950.8	933.2	906.1	872.2	831.5	828.7	774.5
7.5°	1007.8	1009.1	1006.4	1001.0	1002.4	987.4	963.0	929.1	873.5	870.8	800.3
10°	1062.0	1060.7	1055.3	1051.2	1049.8	1036.3	1014.6	983.4	925.1	919.6	830.1
12.5°	1114.9	1110.9	1112.2	1110.9	1108.2	1094.6	1074.3	1043.1	971.2	968.5	866.7
15°	1144.8	1143.4	1152.9	1155.6	1166.5	1154.3	1136.6	1101.4	1036.3	1025.4	910.1
17.5°	1163.8	1162.4	1171.9	1193.6	1214.0	1214.0	1208.5	1170.6	1098.7	1090.5	959.0
20°	1196.3	1201.8	1218.0	1235.7	1265.5	1270.9	1269.6	1253.3	1170.6	1162.4	1013.2
22.5°	1261.4	1258.7	1272.3	1299.4	1326.5	1334.7	1336.0	1336.0	1253.3	1238.4	1068.8
25°	1401.1	1394.4	1383.5	1380.8	1413.3	1412.0	1407.9	1417.4	1340.1	1329.3	1132.6
27.5°	1667.0	1652.1	1610.0	1525.9	1506.9	1513.7	1493.4	1494.7	1439.1	1425.6	1186.8
30°	1919.3	1912.5	1873.2	1771.4	1664.3	1626.3	1591.0	1576.1	1549.0	1525.9	1245.2
32.5°	2147.2	2148.5	2101.0	1989.8	1879.9	1760.6	1699.5	1668.3	1679.2	1658.9	1325.2
35°	2301.8	2289.6	2259.7	2185.1	2065.8	1951.8	1835.2	1766.0	1824.3	1801.3	1405.2
37.5°	2392.7	2383.2	2358.7	2305.8	2246.2	2136.3	1988.5	1882.7	1996.6	1962.7	1506.9
40°	2438.8	2425.2	2400.8	2379.1	2350.6	2290.9	2160.7	2015.6	2153.9	2124.1	1607.3
42.5°	2444.2	2434.7	2421.1	2410.3	2419.8	2411.6	2328.9	2170.2	2319.4	2286.9	1722.6
45°	2440.1	2446.9	2430.6	2411.6	2430.6	2499.8	2499.8	2324.8	2483.5	2459.1	1832.5
47.5°	2442.8	2436.1	2430.6	2425.2	2427.9	2522.9	2617.8	2470.0	2640.9	2612.4	1961.3
50°	2330.3	2339.8	2385.9	2406.2	2418.4	2528.3	2712.8	2627.3	2836.2	2800.9	2105.1
52.5°	1972.2	1977.6	2187.8	2339.8	2388.6	2506.6	2779.2	2802.3	3028.8	3001.7	2259.7
55°	1519.1	1547.6	1747.0	2118.7	2320.8	2470.0	2799.6	2916.2	3225.5	3203.8	2415.7
57.5°	1250.6	1254.7	1369.9	1702.3	2106.5	2436.1	2819.9	3020.7	3401.8	3377.4	2578.5
60°	1037.6	1028.1	1098.7	1313.0	1749.7	2300.4	2824.0	3103.4	3606.6	3598.5	2746.7
62.5°	762.3	773.1	841.0	1022.7	1368.6	2025.1	2803.6	3173.9	3850.8	3839.9	2933.9
65°	468.0	481.5	564.3	731.1	1036.3	1607.3	2670.7	3210.6	4107.1	4131.5	3136.0
67.5°	248.2	257.7	306.5	442.2	710.7	1224.8	2350.6	3164.4	4324.1	4335.0	3329.9
70°	181.8	183.1	199.4	249.6	428.6	851.8	1871.8	2963.7	4457.1	4478.8	3393.7
72.5°	158.7	160.1	166.8	179.0	233.3	519.5	1341.5	2613.7	4401.5	4382.5	3286.5
75°	143.8	143.8	149.2	153.3	170.9	287.6	822.0	2139.0	3976.9	3934.9	2802.3
77.5°	123.4	123.4	128.9	134.3	147.8	185.8	430.0	1585.6	3041.0	2969.1	1916.6
80°	99.0	99.0	105.8	112.6	130.2	139.7	210.2	1060.7	1738.9	1633.1	872.2
82.5°	67.8	73.2	85.5	93.6	108.5	99.0	123.4	458.5	548.0	474.7	196.7
85°	40.7	43.4	61.0	70.5	81.4	52.9	76.0	176.3	164.1	143.8	44.8
87.5°	4.1	6.8	24.4	28.5	28.5	14.9	32.6	42.0	47.5	48.8	10.9
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°	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2	739.2
2.5°	739.2	723.0	691.8	663.3	634.8	615.8	596.8	590.0	580.5	573.7	579.2
5°	746.0	712.1	652.4	602.2	568.3	542.6	530.3	523.6	518.1	516.8	515.4
7.5°	754.1	704.0	623.9	568.3	535.8	523.6	520.9	520.9	520.9	522.2	523.6
10°	771.8	706.7	609.0	549.3	531.7	529.0	530.3	535.8	535.8	537.1	537.1
12.5°	792.1	713.5	598.2	546.6	535.8	537.1	538.5	541.2	541.2	545.3	543.9
15°	822.0	727.0	596.8	549.3	539.8	537.1	537.1	535.8	535.8	535.8	538.5
17.5°	859.9	746.0	598.2	549.3	535.8	530.3	526.3	522.2	516.8	519.5	516.8
20°	897.9	769.1	598.2	542.6	524.9	511.4	499.1	492.4	485.6	484.2	485.6
22.5°	945.4	796.2	591.4	527.6	501.9	482.9	465.2	455.7	444.9	440.8	438.1
25°	986.1	817.9	577.8	505.9	476.1	449.0	425.9	409.6	396.1	393.4	393.4
27.5°	1028.1	836.9	557.5	478.8	439.5	409.6	383.9	363.5	349.9	348.6	347.2
30°	1067.5	853.2	530.3	449.0	406.9	371.6	341.8	324.2	312.0	305.2	301.1
32.5°	1119.0	874.9	504.6	419.1	368.9	333.7	306.5	291.6	275.3	264.5	260.4
35°	1184.1	900.6	476.1	386.6	335.0	299.8	283.5	261.8	241.4	229.2	225.2
37.5°	1257.4	937.3	446.2	352.7	301.1	275.3	265.9	231.9	210.2	206.2	204.8
40°	1348.2	972.5	412.3	317.4	268.6	261.8	245.5	210.2	199.4	198.0	196.7
42.5°	1439.1	1010.5	379.8	282.1	242.8	245.5	222.4	204.8	195.3	192.6	191.2
45°	1544.9	1048.5	347.2	250.9	222.4	222.4	210.2	199.4	191.2	188.5	188.5
47.5°	1656.1	1086.5	312.0	223.8	207.5	199.4	200.7	192.6	187.2	184.5	183.1
50°	1795.8	1123.1	279.4	204.8	198.0	187.2	191.2	185.8	183.1	180.4	179.0
52.5°	1927.4	1139.4	249.6	194.0	192.6	181.8	183.1	180.4	179.0	175.0	173.6
55°	2056.3	1135.3	226.5	188.5	185.8	180.4	177.7	176.3	175.0	170.9	169.5
57.5°	2200.1	1129.9	211.6	187.2	181.8	176.3	176.3	172.3	166.8	166.8	166.8
60°	2349.3	1112.2	204.8	187.2	180.4	176.3	173.6	169.5	164.1	165.5	164.1
62.5°	2517.4	1078.3	200.7	191.2	181.8	175.0	172.3	166.8	160.1	161.4	160.1
65°	2665.3	1009.1	198.0	195.3	184.5	176.3	169.5	162.8	154.6	156.0	154.6
67.5°	2765.7	892.5	189.9	198.0	188.5	175.0	166.8	157.3	146.5	151.9	150.6
70°	2737.2	725.7	175.0	192.6	192.6	176.3	162.8	150.6	138.4	149.2	145.1
72.5°	2516.1	545.3	146.5	173.6	189.9	176.3	154.6	139.7	128.9	135.6	127.5
75°	2065.8	370.3	116.6	138.4	177.7	177.7	147.8	128.9	115.3	111.2	108.5
77.5°	1288.6	230.6	90.9	101.7	149.2	176.3	141.1	115.3	96.3	93.6	90.9
80°	510.0	123.4	71.9	73.2	109.9	161.4	131.6	97.7	77.3	74.6	69.2
82.5°	116.6	62.4	50.2	48.8	67.8	131.6	119.4	77.3	59.7	59.7	50.2
85°	35.3	32.6	32.6	31.2	33.9	67.8	92.2	52.9	40.7	28.5	24.4
87.5°	9.5	13.6	12.2	10.9	10.9	9.5	29.8	13.6	8.1	4.1	2.7
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)