

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: P595193

Luminaire Tested: **IST-PA1D-727-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595193  
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: IST-PA1D-727-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 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: 6961 lumens  
Efficiency: N/A  
Efficacy: 111.6 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

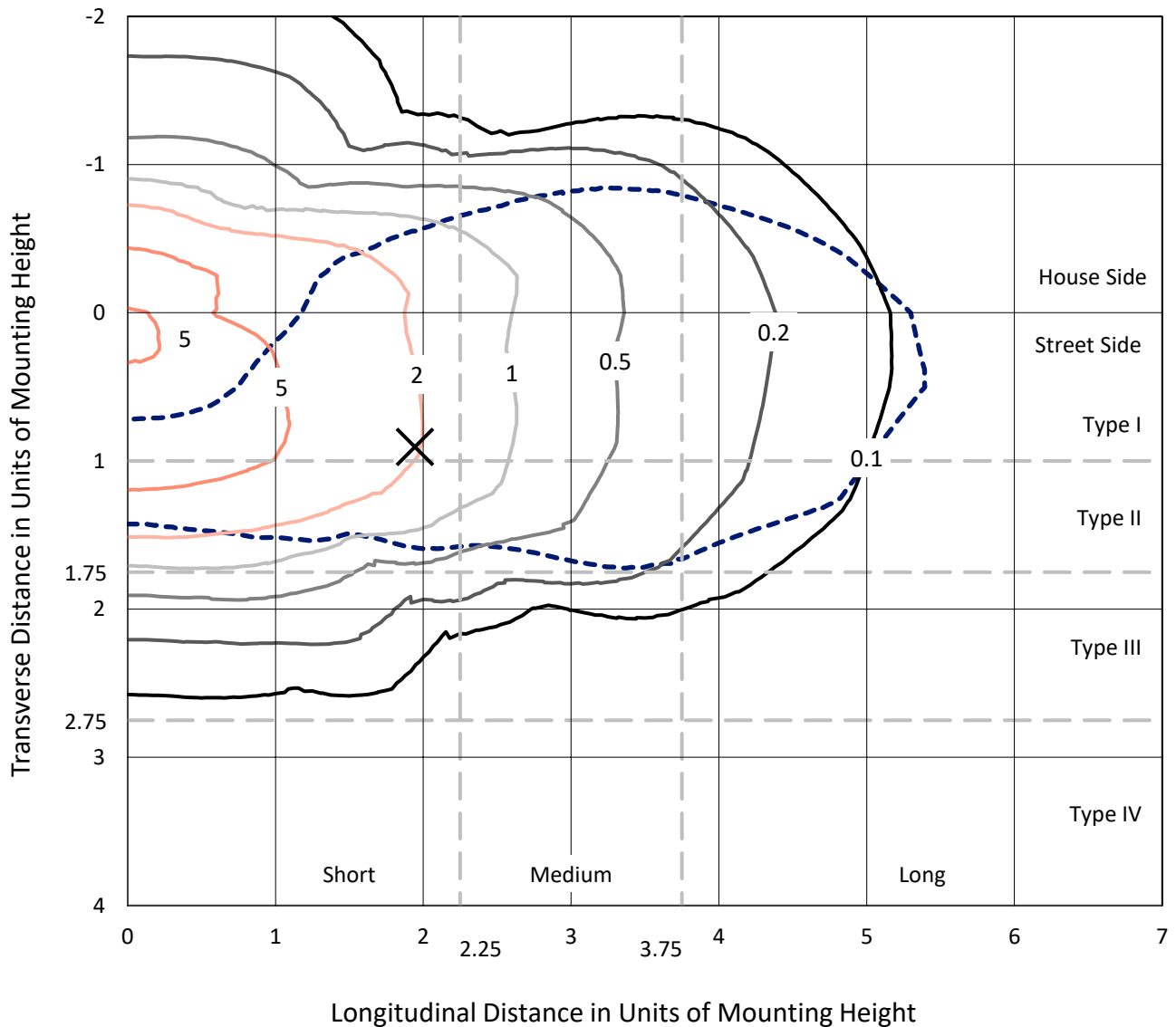
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

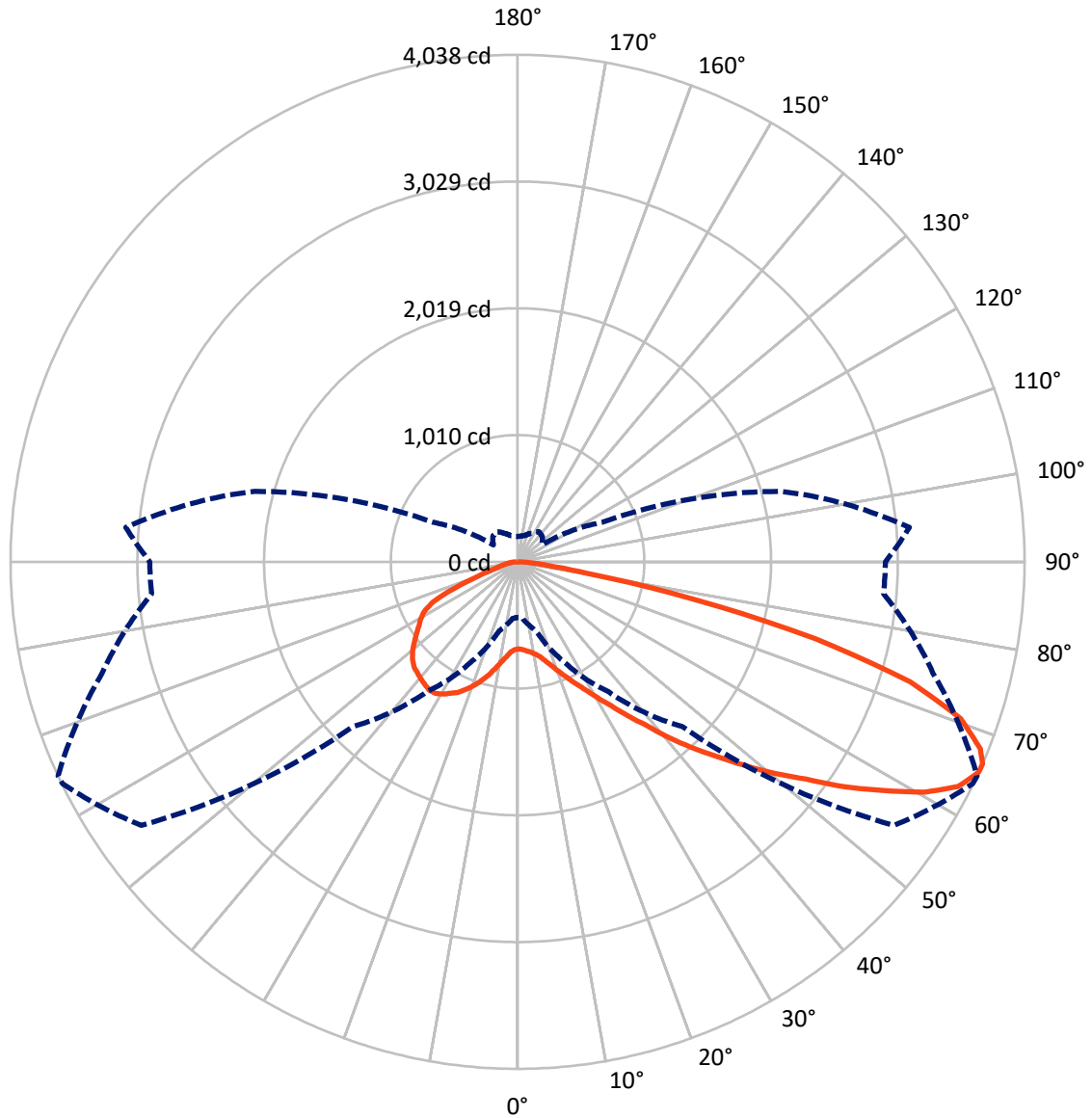
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 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	2113.6	0.0	2113.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4847.4	0.0	4847.4
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6961.0	0.0	6961.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	1.0
10°-20°	246.7	3.5
20°-30°	483.2	6.9
30°-40°	789.5	11.3
40°-50°	1253.1	18.0
50°-60°	1611.7	23.2
60°-70°	1453.5	20.9
70°-80°	901.5	13.0
80°-90°	151.1	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°	6961.0	100.0
0°-180°	6961.0	100.0

**Coefficient of Utilization**

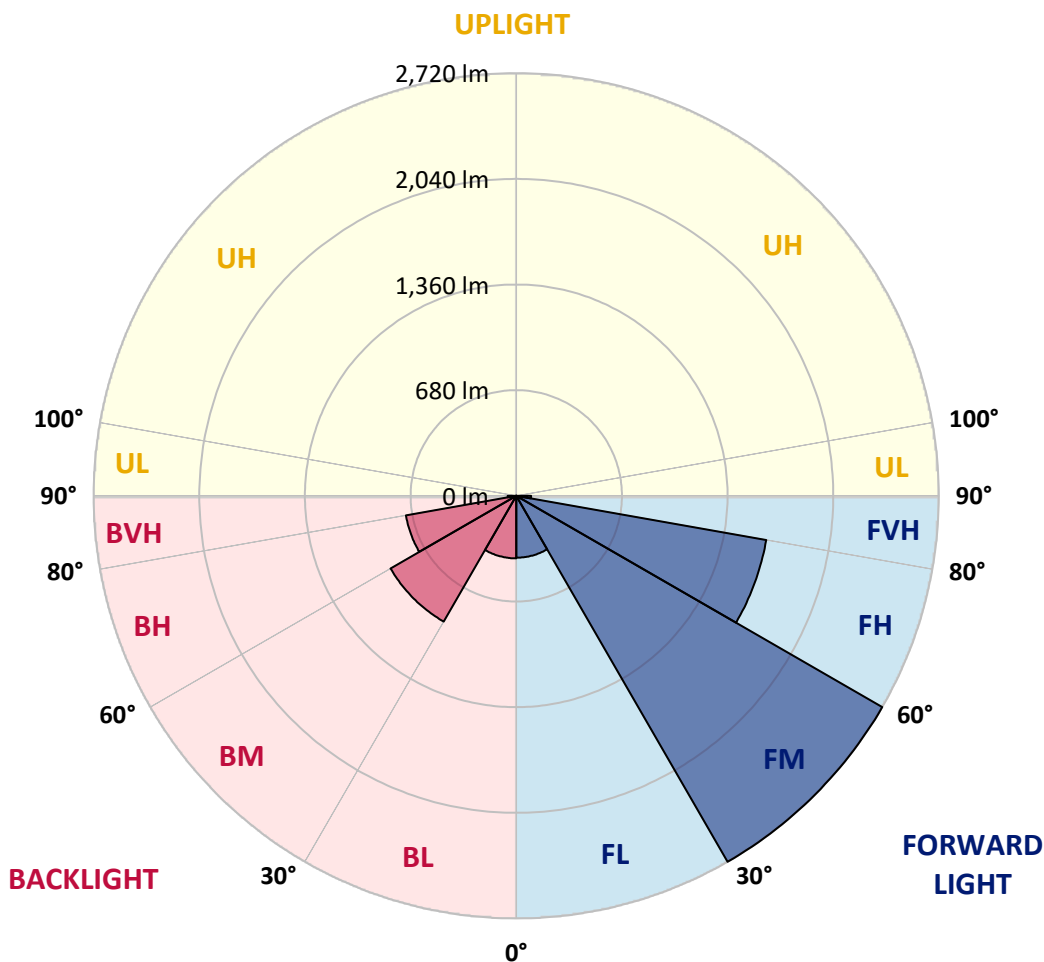


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.1	5.7			
FM (30°-60°)	2720.0	39.1			
FH (60°-80°)	1633.8	23.5			G1/1800
FVH (80°-90°)	95.6	1.4			G1/100
BL (0°-30°)	402.6	5.8	B1/500		
BM (30°-60°)	934.4	13.4	B1/1000		
BH (60°-80°)	721.2	10.4	B2/1000		G2/1000
BVH (80°-90°)	55.5	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°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	695.5	697.2	698.9	695.5	698.9	700.6	697.2	697.2	698.9	695.5	695.5
5°	690.5	692.2	695.5	697.2	704.0	707.4	709.0	709.0	710.7	709.0	710.7
7.5°	677.0	677.0	683.7	687.1	697.2	709.0	715.8	725.9	725.9	727.6	732.7
10°	690.5	690.5	695.5	700.6	709.0	719.2	729.3	741.1	744.5	756.3	763.1
12.5°	710.7	714.1	720.9	727.6	737.7	749.6	758.0	769.8	771.5	783.3	796.8
15°	744.5	747.9	751.2	759.7	773.2	788.4	803.6	812.0	815.4	822.1	832.3
17.5°	795.1	798.5	800.2	805.3	815.4	835.7	857.6	864.4	867.7	867.7	876.2
20°	881.2	879.5	876.2	866.0	866.0	884.6	915.0	926.8	930.2	923.4	918.4
22.5°	980.8	979.2	965.6	953.8	945.4	948.8	979.2	999.4	997.7	984.2	964.0
25°	1110.8	1114.2	1092.3	1061.9	1036.5	1029.8	1048.4	1068.6	1072.0	1046.7	1012.9
27.5°	1266.1	1261.1	1249.3	1200.3	1151.3	1121.0	1131.1	1153.0	1154.7	1127.7	1073.7
30°	1448.5	1440.0	1409.6	1359.0	1283.0	1240.8	1232.4	1250.9	1256.0	1210.4	1132.8
32.5°	1651.0	1642.6	1603.8	1526.1	1443.4	1372.5	1345.5	1370.8	1367.4	1315.1	1207.1
35°	1895.8	1894.1	1823.2	1727.0	1622.4	1527.8	1490.7	1490.7	1500.8	1423.1	1301.6
37.5°	2223.3	2236.9	2132.2	1981.9	1835.1	1708.4	1646.0	1642.6	1644.3	1559.9	1408.0
40°	2518.8	2513.7	2452.9	2312.8	2098.4	1936.4	1843.5	1823.2	1828.3	1720.3	1546.4
42.5°	2689.3	2694.4	2679.2	2618.4	2431.0	2226.7	2068.0	2014.0	2015.7	1880.6	1678.1
45°	2795.6	2800.7	2799.0	2829.4	2755.1	2562.7	2336.5	2211.5	2204.8	2063.0	1833.4
47.5°	2856.4	2859.8	2881.7	2944.2	3005.0	2961.1	2633.6	2431.0	2417.5	2233.5	1988.7
50°	2788.9	2790.6	2878.4	3026.9	3175.5	3308.9	2937.5	2648.8	2645.4	2422.6	2140.6
52.5°	2434.4	2464.8	2658.9	2969.5	3302.1	3555.3	3288.6	2905.4	2876.7	2601.5	2292.6
55°	1987.0	2000.5	2223.3	2618.4	3278.5	3707.3	3553.6	3182.2	3162.0	2800.7	2441.1
57.5°	1551.4	1565.0	1830.0	2159.2	2917.2	3698.8	3741.0	3481.0	3435.5	2974.6	2589.7
60°	1001.1	1043.3	1350.6	1755.7	2361.8	3442.2	3835.6	3768.0	3725.8	3146.8	2716.3
62.5°	680.3	687.1	879.5	1301.6	1767.5	2797.3	3828.8	3945.3	3938.5	3319.0	2842.9
65°	442.3	452.4	568.9	881.2	1264.5	1857.0	3660.0	4031.4	4038.1	3425.3	2925.6
66°	374.8	381.5	471.0	741.1	1107.5	1472.1	3511.4	4024.6	4038.1	3474.3	2951.0
67.5°	325.8	330.9	376.5	547.0	904.9	1058.5	3124.8	3935.2	3974.0	3519.9	2983.0
70°	280.2	287.0	329.2	373.1	646.6	617.9	1978.6	3705.6	3744.4	3541.8	3003.3
72.5°	231.3	236.3	278.6	337.6	469.3	415.3	872.8	3172.1	3270.0	3460.8	2971.2
75°	182.3	185.7	224.5	281.9	359.6	324.1	379.8	2326.3	2449.6	3050.6	2846.3
77.5°	141.8	143.5	173.9	219.5	329.2	251.5	234.7	1132.8	1433.3	2356.7	2507.0
80°	97.9	101.3	128.3	165.4	241.4	199.2	157.0	442.3	562.2	1565.0	1900.9
82.5°	64.2	65.8	87.8	124.9	160.4	190.8	103.0	214.4	236.3	720.9	823.8
85°	43.9	43.9	62.5	77.7	109.7	126.6	67.5	113.1	123.2	273.5	99.6
87.5°	21.9	21.9	30.4	40.5	52.3	49.0	40.5	40.5	40.5	89.5	28.7
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°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	697.2	697.2	698.9	700.6	702.3	702.3	704.0	704.0	702.3	704.0	705.7
5°	712.4	714.1	717.5	722.5	731.0	739.4	747.9	752.9	758.0	759.7	756.3
7.5°	736.1	739.4	751.2	764.7	778.3	798.5	810.3	817.1	820.5	823.8	820.5
10°	766.4	773.2	790.1	813.7	837.3	862.7	876.2	886.3	888.0	891.4	888.0
12.5°	801.9	813.7	839.0	872.8	901.5	926.8	936.9	930.2	915.0	908.2	906.6
15°	844.1	855.9	891.4	933.6	967.3	979.2	964.0	942.0	925.1	923.4	921.8
17.5°	881.2	898.1	947.1	991.0	1023.0	1011.2	970.7	957.2	952.1	958.9	957.2
20°	928.5	942.0	991.0	1045.0	1061.9	1016.3	987.6	979.2	974.1	974.1	970.7
22.5°	967.3	977.5	1036.5	1095.6	1085.5	1019.7	999.4	982.5	965.6	964.0	958.9
25°	1012.9	1016.3	1078.8	1142.9	1088.9	1023.0	987.6	958.9	942.0	936.9	938.6
27.5°	1055.1	1063.6	1117.6	1175.0	1080.4	1004.5	947.1	909.9	884.6	882.9	882.9
30°	1109.1	1109.1	1158.1	1210.4	1061.9	957.2	881.2	827.2	807.0	805.3	801.9
32.5°	1169.9	1159.8	1207.1	1235.8	1021.4	893.1	791.8	731.0	698.9	692.2	687.1
35°	1254.3	1232.4	1266.1	1240.8	980.8	801.9	678.7	609.4	585.8	575.7	575.7
37.5°	1352.2	1320.2	1355.6	1225.6	918.4	695.5	560.5	508.1	482.8	467.6	472.7
40°	1467.0	1426.5	1446.8	1208.7	850.8	577.4	462.6	430.5	400.1	379.8	379.8
42.5°	1602.1	1534.6	1549.8	1191.9	754.6	474.4	400.1	378.2	354.5	334.3	339.3
45°	1732.1	1666.2	1651.0	1175.0	653.3	405.2	374.8	359.6	337.6	314.0	314.0
47.5°	1882.3	1797.9	1740.5	1144.6	553.7	383.2	381.5	359.6	317.4	283.6	280.2
50°	2024.1	1946.5	1821.6	1099.0	498.0	401.8	379.8	327.5	287.0	265.0	263.4
52.5°	2174.4	2093.4	1887.4	1043.3	469.3	393.3	349.5	300.5	270.1	248.2	243.1
55°	2322.9	2280.7	1946.5	989.3	423.7	366.3	324.1	283.6	251.5	231.3	227.9
57.5°	2491.8	2474.9	1997.1	935.3	352.8	332.6	305.6	271.8	241.4	226.2	224.5
60°	2638.6	2697.7	2057.9	894.7	300.5	307.3	297.1	270.1	248.2	231.3	231.3
62.5°	2794.0	2912.1	2111.9	842.4	261.7	292.1	298.8	268.4	239.7	224.5	224.5
65°	2929.0	3131.6	2167.6	746.2	234.7	280.2	293.7	249.9	216.1	204.3	200.9
66°	2986.4	3194.1	2184.5	687.1	224.5	271.8	285.3	239.7	206.0	195.8	194.1
67.5°	3053.9	3292.0	2204.8	560.5	209.3	253.2	266.7	224.5	189.1	182.3	178.9
70°	3148.5	3312.2	2193.0	366.3	182.3	217.8	238.0	200.9	168.8	163.8	158.7
72.5°	3158.6	3173.8	2074.8	231.3	158.7	187.4	209.3	180.6	148.6	143.5	140.1
75°	2991.5	2812.5	1755.7	165.4	140.1	165.4	184.0	157.0	123.2	116.5	113.1
77.5°	2554.2	2231.8	1262.8	123.2	121.5	141.8	153.6	136.7	103.0	97.9	96.2
80°	1792.9	1514.3	633.1	92.9	96.2	118.2	128.3	114.8	86.1	79.3	76.0
82.5°	725.9	643.2	217.8	69.2	72.6	89.5	109.7	94.5	65.8	57.4	50.6
85°	82.7	140.1	94.5	47.3	49.0	60.8	74.3	57.4	38.8	32.1	27.0
87.5°	16.9	30.4	33.8	18.6	16.9	23.6	33.8	20.3	13.5	5.1	6.8
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)