

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: P595139

Luminaire Tested: **IST-PA1C-740-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595139  
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-PA1C-740-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6688 lumens  
Efficiency: N/A  
Efficacy: 138.5 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

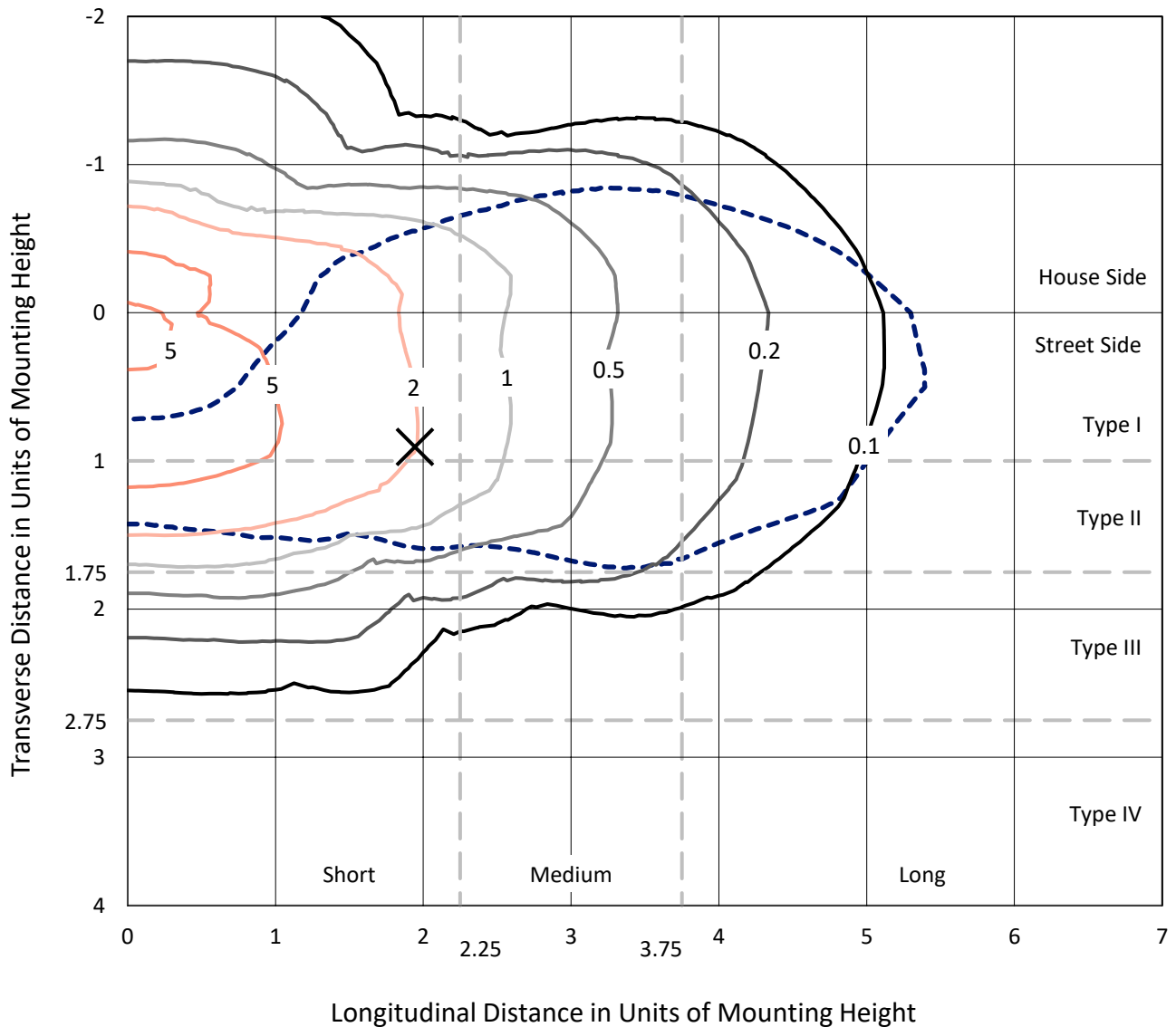
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

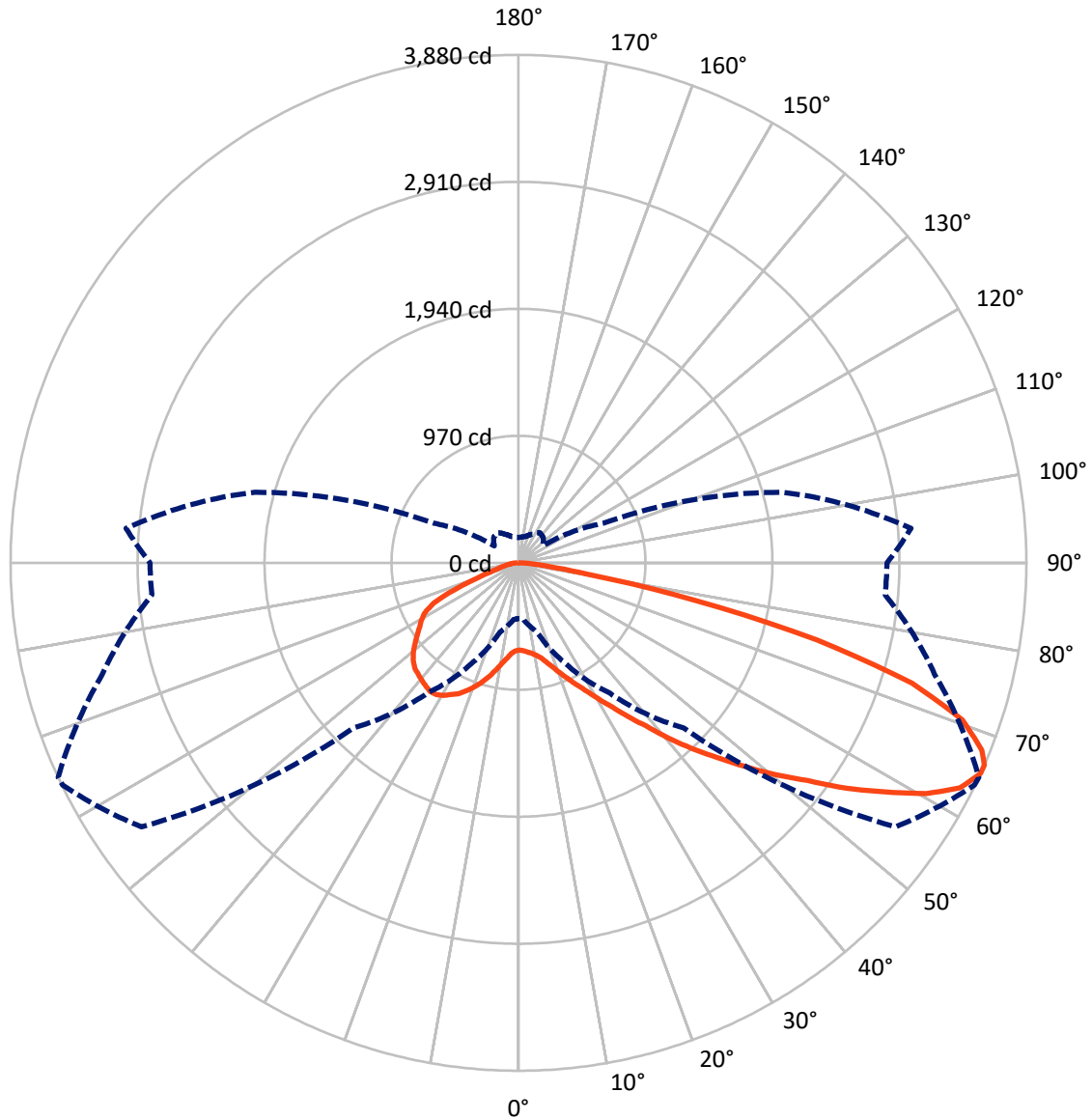
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.4 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	2030.7	0.0	2030.7
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4657.3	0.0	4657.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6688.0	0.0	6688.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	1.0
10°-20°	237.0	3.5
20°-30°	464.2	6.9
30°-40°	758.5	11.3
40°-50°	1204.0	18.0
50°-60°	1548.5	23.2
60°-70°	1396.5	20.9
70°-80°	866.1	13.0
80°-90°	145.1	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°	6688.0	100.0
0°-180°	6688.0	100.0

**Coefficient of Utilization**



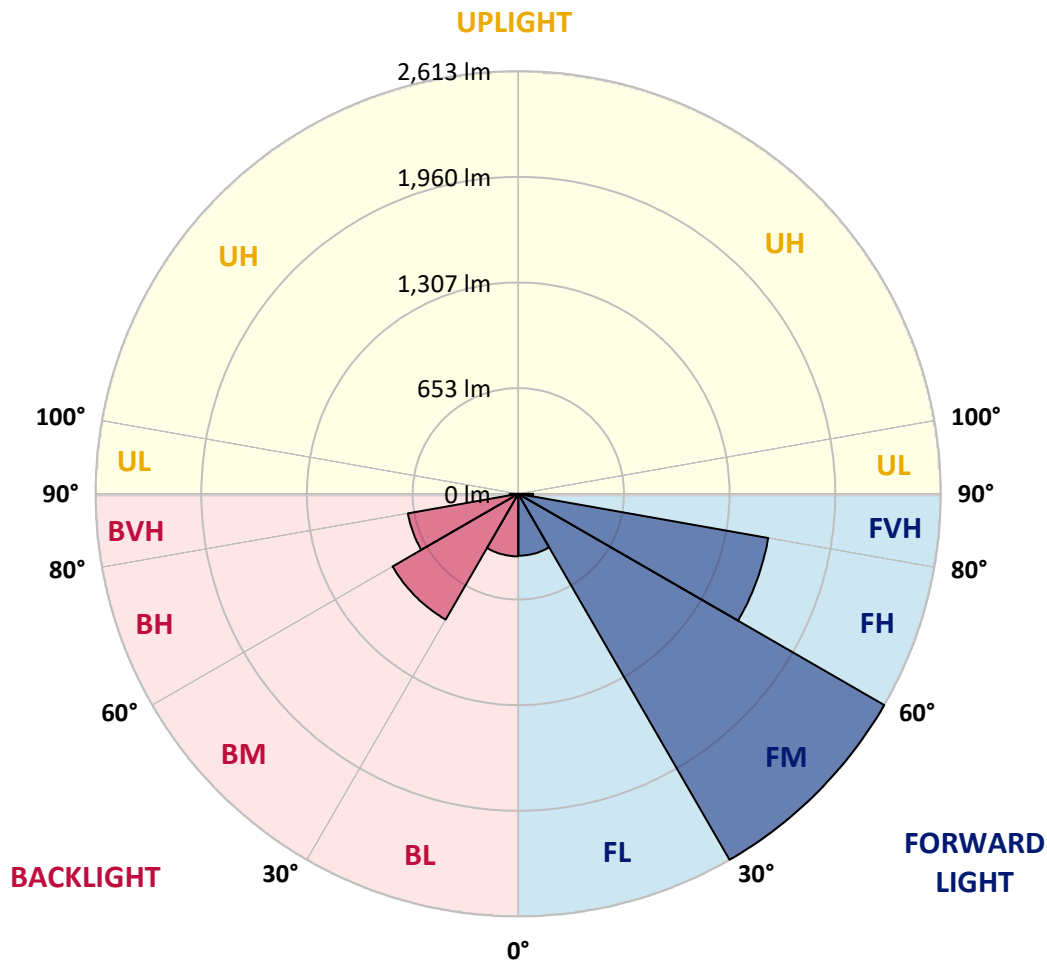
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.5	5.7			
FM (30°-60°)	2613.3	39.1			
FH (60°-80°)	1569.7	23.5			G1/1800
FVH (80°-90°)	91.8	1.4			G1/100
BL (0°-30°)	386.8	5.8	B1/500		
BM (30°-60°)	897.7	13.4	B1/1000		
BH (60°-80°)	692.9	10.4	B2/1000		G2/1000
BVH (80°-90°)	53.3	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°	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6
2.5°	668.3	669.9	671.5	668.3	671.5	673.1	669.9	669.9	671.5	668.3	668.3
5°	663.4	665.0	668.3	669.9	676.4	679.6	681.2	681.2	682.9	681.2	682.9
7.5°	650.4	650.4	656.9	660.1	669.9	681.2	687.7	697.5	697.5	699.1	703.9
10°	663.4	663.4	668.3	673.1	681.2	691.0	700.7	712.0	715.3	726.6	733.1
12.5°	682.9	686.1	692.6	699.1	708.8	720.2	728.3	739.6	741.2	752.6	765.6
15°	715.3	718.5	721.8	729.9	742.9	757.5	772.1	780.2	783.4	789.9	799.6
17.5°	764.0	767.2	768.8	773.7	783.4	802.9	824.0	830.5	833.7	833.7	841.8
20°	846.7	845.1	841.8	832.1	832.1	849.9	879.1	890.5	893.7	887.2	882.4
22.5°	942.4	940.7	927.8	916.4	908.3	911.6	940.7	960.2	958.6	945.6	926.2
25°	1067.3	1070.5	1049.4	1020.2	995.9	989.4	1007.3	1026.7	1030.0	1005.6	973.2
27.5°	1216.5	1211.6	1200.3	1153.2	1106.2	1077.0	1086.7	1107.8	1109.4	1083.5	1031.6
30°	1391.7	1383.6	1354.4	1305.7	1232.7	1192.2	1184.0	1201.9	1206.8	1163.0	1088.3
32.5°	1586.3	1578.2	1540.9	1466.3	1386.8	1318.7	1292.7	1317.0	1313.8	1263.5	1159.7
35°	1821.5	1819.9	1751.7	1659.3	1558.7	1467.9	1432.2	1432.2	1441.9	1367.3	1250.5
37.5°	2136.1	2149.1	2048.6	1904.2	1763.1	1641.4	1581.4	1578.2	1579.8	1498.7	1352.7
40°	2420.0	2415.1	2356.7	2222.1	2016.1	1860.4	1771.2	1751.7	1756.6	1652.8	1485.7
42.5°	2583.8	2588.7	2574.1	2515.7	2335.7	2139.4	1986.9	1935.0	1936.6	1806.9	1612.2
45°	2686.0	2690.9	2689.2	2718.4	2647.1	2462.2	2244.8	2124.8	2118.3	1982.1	1761.5
47.5°	2744.4	2747.6	2768.7	2828.7	2887.1	2845.0	2530.3	2335.7	2322.7	2145.9	1910.7
50°	2679.5	2681.1	2765.5	2908.2	3050.9	3179.1	2822.2	2544.9	2541.6	2327.5	2056.7
52.5°	2338.9	2368.1	2554.6	2853.1	3172.6	3415.9	3159.6	2791.4	2763.9	2499.5	2202.7
55°	1909.1	1922.0	2136.1	2515.7	3149.9	3561.9	3414.3	3057.4	3038.0	2690.9	2345.4
57.5°	1490.6	1503.6	1758.2	2074.5	2802.8	3553.8	3594.3	3344.5	3300.7	2857.9	2488.1
60°	961.8	1002.4	1297.6	1686.9	2269.2	3307.2	3685.1	3620.3	3579.7	3023.4	2609.8
62.5°	653.7	660.1	845.1	1250.5	1698.2	2687.6	3678.7	3790.6	3784.1	3188.8	2731.4
65°	425.0	434.7	546.6	846.7	1214.9	1784.2	3516.5	3873.3	3879.8	3291.0	2810.9
66°	360.1	366.6	452.5	712.0	1064.0	1414.4	3373.7	3866.8	3879.8	3338.0	2835.2
67.5°	313.0	317.9	361.7	525.5	869.4	1017.0	3002.3	3780.8	3818.1	3381.8	2866.0
70°	269.2	275.7	316.3	358.5	621.2	593.6	1901.0	3560.2	3597.6	3402.9	2885.5
72.5°	222.2	227.1	267.6	324.4	450.9	399.0	838.6	3047.7	3141.8	3325.1	2854.7
75°	175.2	178.4	215.7	270.9	345.5	311.4	364.9	2235.1	2353.5	2930.9	2734.7
77.5°	136.2	137.9	167.1	210.9	316.3	241.7	225.5	1088.3	1377.1	2264.3	2408.6
80°	94.1	97.3	123.3	159.0	231.9	191.4	150.8	425.0	540.1	1503.6	1826.4
82.5°	61.6	63.3	84.3	120.0	154.1	183.3	98.9	206.0	227.1	692.6	791.5
85°	42.2	42.2	60.0	74.6	105.4	121.6	64.9	108.7	118.4	262.8	95.7
87.5°	21.1	21.1	29.2	38.9	50.3	47.0	38.9	38.9	38.9	86.0	27.6
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°	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6	666.6
2.5°	669.9	669.9	671.5	673.1	674.7	674.7	676.4	676.4	674.7	676.4	678.0
5°	684.5	686.1	689.3	694.2	702.3	710.4	718.5	723.4	728.3	729.9	726.6
7.5°	707.2	710.4	721.8	734.8	747.7	767.2	778.6	785.0	788.3	791.5	788.3
10°	736.4	742.9	759.1	781.8	804.5	828.8	841.8	851.5	853.2	856.4	853.2
12.5°	770.4	781.8	806.1	838.6	866.1	890.5	900.2	893.7	879.1	872.6	871.0
15°	811.0	822.3	856.4	897.0	929.4	940.7	926.2	905.1	888.8	887.2	885.6
17.5°	846.7	862.9	909.9	952.1	982.9	971.6	932.6	919.7	914.8	921.3	919.7
20°	892.1	905.1	952.1	1004.0	1020.2	976.4	948.9	940.7	935.9	935.9	932.6
22.5°	929.4	939.1	995.9	1052.7	1042.9	979.7	960.2	944.0	927.8	926.2	921.3
25°	973.2	976.4	1036.4	1098.1	1046.2	982.9	948.9	921.3	905.1	900.2	901.8
27.5°	1013.7	1021.8	1073.8	1128.9	1038.1	965.1	909.9	874.2	849.9	848.3	848.3
30°	1065.6	1065.6	1112.7	1163.0	1020.2	919.7	846.7	794.8	775.3	773.7	770.4
32.5°	1124.0	1114.3	1159.7	1187.3	981.3	858.0	760.7	702.3	671.5	665.0	660.1
35°	1205.1	1184.0	1216.5	1192.2	942.4	770.4	652.0	585.5	562.8	553.1	553.1
37.5°	1299.2	1268.4	1302.5	1177.6	882.4	668.3	538.5	488.2	463.9	449.3	454.2
40°	1409.5	1370.6	1390.0	1161.3	817.5	554.7	444.4	413.6	384.4	364.9	364.9
42.5°	1539.3	1474.4	1489.0	1145.1	725.0	455.8	384.4	363.3	340.6	321.2	326.0
45°	1664.2	1600.9	1586.3	1128.9	627.7	389.3	360.1	345.5	324.4	301.7	301.7
47.5°	1808.5	1727.4	1672.3	1099.7	532.0	368.2	366.6	345.5	304.9	272.5	269.2
50°	1944.8	1870.1	1750.1	1055.9	478.5	386.0	364.9	314.7	275.7	254.7	253.0
52.5°	2089.1	2011.3	1813.4	1002.4	450.9	377.9	335.8	288.7	259.5	238.4	233.6
55°	2231.8	2191.3	1870.1	950.5	407.1	352.0	311.4	272.5	241.7	222.2	219.0
57.5°	2394.0	2377.8	1918.8	898.6	339.0	319.5	293.6	261.1	231.9	217.3	215.7
60°	2535.2	2591.9	1977.2	859.7	288.7	295.2	285.5	259.5	238.4	222.2	222.2
62.5°	2684.4	2797.9	2029.1	809.4	251.4	280.6	287.1	257.9	230.3	215.7	215.7
65°	2814.1	3008.8	2082.6	716.9	225.5	269.2	282.2	240.1	207.6	196.3	193.0
66°	2869.3	3068.8	2098.8	660.1	215.7	261.1	274.1	230.3	197.9	188.1	186.5
67.5°	2934.2	3162.9	2118.3	538.5	201.1	243.3	256.3	215.7	181.7	175.2	171.9
70°	3025.0	3182.3	2107.0	352.0	175.2	209.2	228.7	193.0	162.2	157.3	152.5
72.5°	3034.7	3049.3	1993.4	222.2	152.5	180.0	201.1	173.6	142.7	137.9	134.6
75°	2874.2	2702.2	1686.9	159.0	134.6	159.0	176.8	150.8	118.4	111.9	108.7
77.5°	2454.1	2144.3	1213.2	118.4	116.8	136.2	147.6	131.4	98.9	94.1	92.5
80°	1722.5	1454.9	608.2	89.2	92.5	113.5	123.3	110.3	82.7	76.2	73.0
82.5°	697.5	618.0	209.2	66.5	69.7	86.0	105.4	90.8	63.3	55.1	48.7
85°	79.5	134.6	90.8	45.4	47.0	58.4	71.4	55.1	37.3	30.8	26.0
87.5°	16.2	29.2	32.4	17.8	16.2	22.7	32.4	19.5	13.0	4.9	6.5
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)