

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: P595328

Luminaire Tested: **IST-PA1E-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595328
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-PA1E-827-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7536 lumens
Efficiency: N/A
Efficacy: 92.5 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

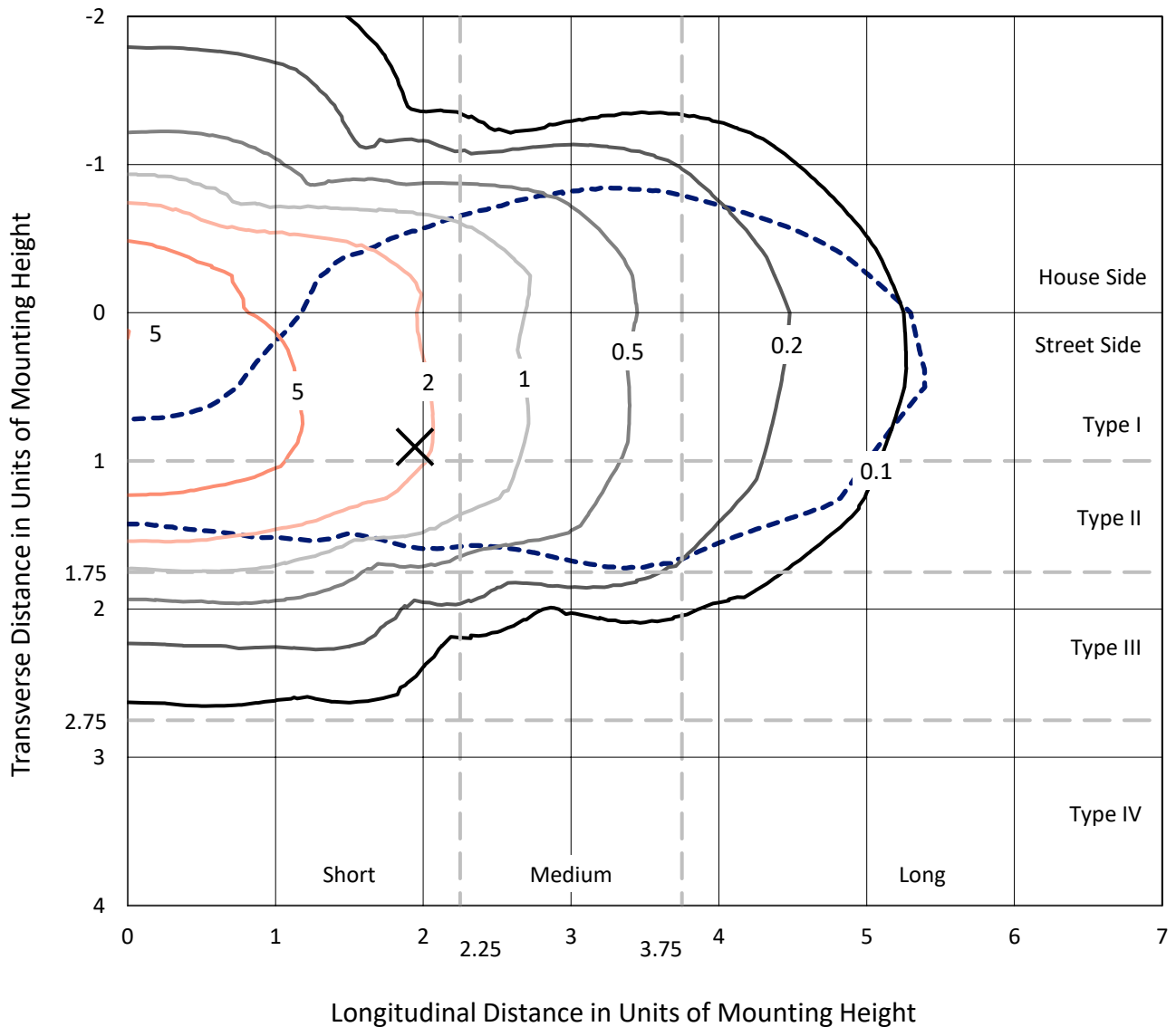
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

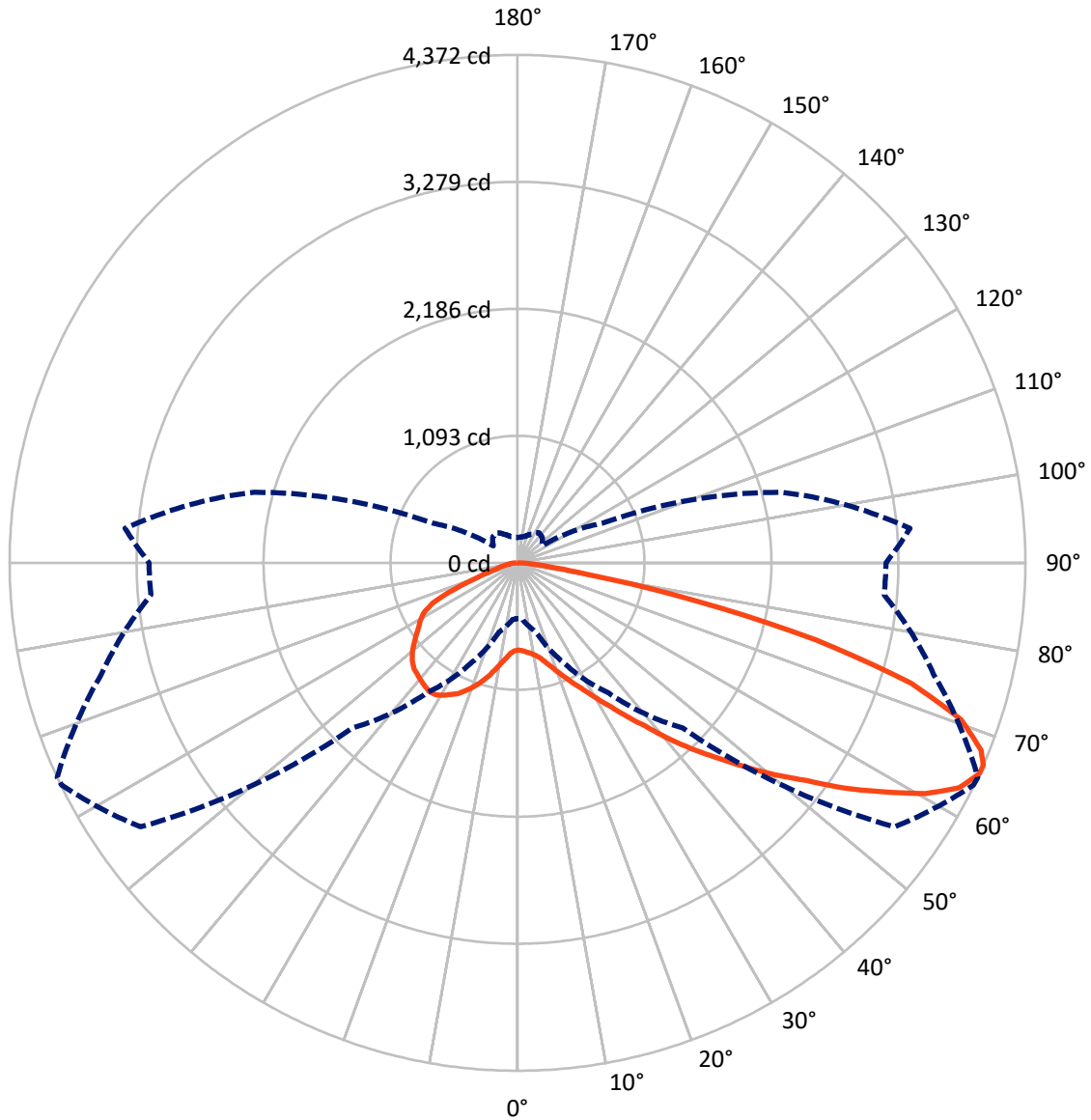
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	2288.2	0.0	2288.2
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5247.8	0.0	5247.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	7536.0	0.0	7536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	1.0
10°-20°	267.1	3.5
20°-30°	523.1	6.9
30°-40°	854.7	11.3
40°-50°	1356.6	18.0
50°-60°	1744.9	23.2
60°-70°	1573.5	20.9
70°-80°	975.9	13.0
80°-90°	163.5	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°	7536.0	100.0
0°-180°	7536.0	100.0

Coefficient of Utilization



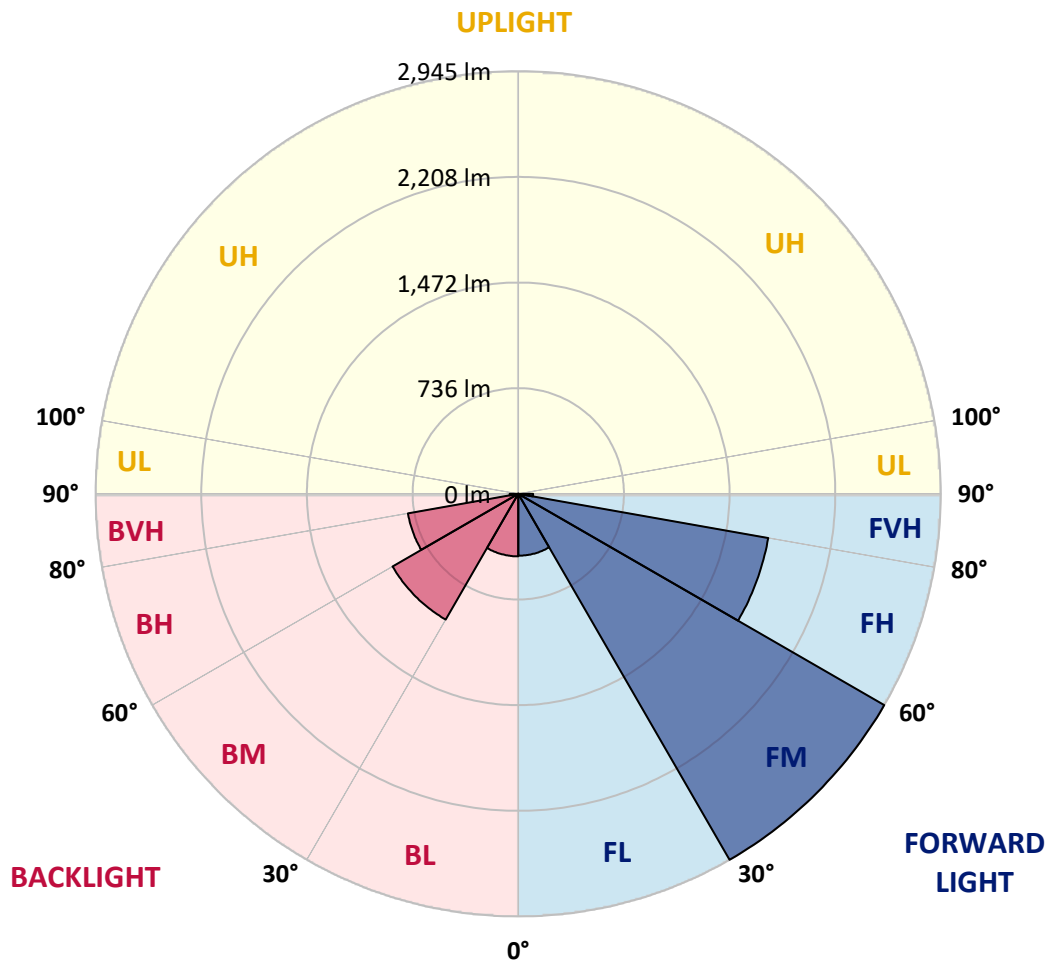
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.0	5.7			
FM (30°-60°)	2944.7	39.1			
FH (60°-80°)	1768.7	23.5			G1/1800
FVH (80°-90°)	103.4	1.4			G2/225
BL (0°-30°)	435.8	5.8	B1/500		
BM (30°-60°)	1011.6	13.4	B2/2500		
BH (60°-80°)	780.8	10.4	B2/1000		G2/1000
BVH (80°-90°)	60.1	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°	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2
2.5°	753.0	754.8	756.6	753.0	756.6	758.5	754.8	754.8	756.6	753.0	753.0
5°	747.5	749.3	753.0	754.8	762.1	765.8	767.6	767.6	769.4	767.6	769.4
7.5°	732.9	732.9	740.2	743.8	754.8	767.6	774.9	785.9	785.9	787.7	793.2
10°	747.5	747.5	753.0	758.5	767.6	778.6	789.5	802.3	806.0	818.8	826.1
12.5°	769.4	773.1	780.4	787.7	798.7	811.5	820.6	833.4	835.2	848.0	862.6
15°	806.0	809.6	813.3	822.4	837.1	853.5	870.0	879.1	882.7	890.1	901.0
17.5°	860.8	864.5	866.3	871.8	882.7	904.7	928.4	935.8	939.4	939.4	948.5
20°	954.0	952.2	948.5	937.6	937.6	957.7	990.6	1003.4	1007.0	999.7	994.2
22.5°	1061.9	1060.0	1045.4	1032.6	1023.5	1027.1	1060.0	1082.0	1080.1	1065.5	1043.6
25°	1202.6	1206.2	1182.5	1149.6	1122.2	1114.9	1135.0	1156.9	1160.6	1133.1	1096.6
27.5°	1370.7	1365.2	1352.5	1299.5	1246.5	1213.6	1224.5	1248.3	1250.1	1220.9	1162.4
30°	1568.1	1559.0	1526.1	1471.2	1389.0	1343.3	1334.2	1354.3	1359.8	1310.4	1226.3
32.5°	1787.4	1778.3	1736.3	1652.2	1562.6	1485.9	1456.6	1484.0	1480.4	1423.7	1306.8
35°	2052.4	2050.6	1973.9	1869.7	1756.4	1654.0	1613.8	1613.8	1624.8	1540.7	1409.1
37.5°	2407.0	2421.6	2308.3	2145.6	1986.6	1849.6	1781.9	1778.3	1780.1	1688.7	1524.3
40°	2726.8	2721.4	2655.6	2503.9	2271.8	2096.3	1995.8	1973.9	1979.3	1862.4	1674.1
42.5°	2911.4	2916.9	2900.5	2834.7	2631.8	2410.7	2238.9	2180.4	2182.2	2036.0	1816.7
45°	3026.6	3032.1	3030.2	3063.1	2982.7	2774.4	2529.5	2394.2	2386.9	2233.4	1984.8
47.5°	3092.4	3096.0	3119.8	3187.4	3253.2	3205.7	2851.1	2631.8	2617.2	2418.0	2153.0
50°	3019.3	3021.1	3116.1	3277.0	3437.8	3582.2	3180.1	2867.6	2863.9	2622.7	2317.4
52.5°	2635.5	2668.4	2878.5	3214.8	3574.9	3849.0	3560.2	3145.4	3114.3	2816.4	2481.9
55°	2151.1	2165.8	2407.0	2834.7	3549.3	4013.5	3847.2	3445.1	3423.2	3032.1	2642.8
57.5°	1679.6	1694.2	1981.2	2337.6	3158.2	4004.4	4050.0	3768.6	3719.2	3220.3	2803.6
60°	1083.8	1129.5	1462.1	1900.7	2556.9	3726.6	4152.4	4079.3	4033.6	3406.7	2940.7
62.5°	736.5	743.8	952.2	1409.1	1913.5	3028.4	4145.1	4271.2	4263.9	3593.1	3077.7
65°	478.8	489.8	615.9	954.0	1368.9	2010.4	3962.3	4364.4	4371.7	3708.3	3167.3
66°	405.7	413.0	509.9	802.3	1198.9	1593.7	3801.5	4357.1	4371.7	3761.3	3194.7
67.5°	352.7	358.2	407.6	592.2	979.6	1145.9	3383.0	4260.2	4302.3	3810.6	3229.4
70°	303.4	310.7	356.4	403.9	700.0	668.9	2142.0	4011.7	4053.7	3834.4	3251.4
72.5°	250.4	255.9	301.6	365.5	508.1	449.6	944.9	3434.1	3540.1	3746.7	3216.6
75°	197.4	201.0	243.1	305.2	389.3	350.9	411.2	2518.5	2651.9	3302.5	3081.4
77.5°	153.5	155.3	188.2	237.6	356.4	272.3	254.0	1226.3	1551.7	2551.4	2714.0
80°	106.0	109.7	138.9	179.1	261.4	215.7	170.0	478.8	608.6	1694.2	2057.9
82.5°	69.5	71.3	95.0	135.2	173.6	206.5	111.5	232.1	255.9	780.4	891.9
85°	47.5	47.5	67.6	84.1	118.8	137.1	73.1	122.5	133.4	296.1	107.8
87.5°	23.8	23.8	32.9	43.9	56.7	53.0	43.9	43.9	43.9	96.9	31.1
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°	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2	751.2
2.5°	754.8	754.8	756.6	758.5	760.3	760.3	762.1	762.1	760.3	762.1	764.0
5°	771.3	773.1	776.7	782.2	791.4	800.5	809.6	815.1	820.6	822.4	818.8
7.5°	796.9	800.5	813.3	827.9	842.5	864.5	877.3	884.6	888.2	891.9	888.2
10°	829.7	837.1	855.3	880.9	906.5	933.9	948.5	959.5	961.3	965.0	961.3
12.5°	868.1	880.9	908.3	944.9	976.0	1003.4	1014.3	1007.0	990.6	983.3	981.4
15°	913.8	926.6	965.0	1010.7	1047.2	1060.0	1043.6	1019.8	1001.5	999.7	997.9
17.5°	954.0	972.3	1025.3	1072.8	1107.5	1094.8	1050.9	1036.3	1030.8	1038.1	1036.3
20°	1005.2	1019.8	1072.8	1131.3	1149.6	1100.2	1069.2	1060.0	1054.5	1054.5	1050.9
22.5°	1047.2	1058.2	1122.2	1186.1	1175.2	1103.9	1082.0	1063.7	1045.4	1043.6	1038.1
25°	1096.6	1100.2	1167.9	1237.3	1178.8	1107.5	1069.2	1038.1	1019.8	1014.3	1016.2
27.5°	1142.3	1151.4	1209.9	1272.0	1169.7	1087.4	1025.3	985.1	957.7	955.9	955.9
30°	1200.8	1200.8	1253.8	1310.4	1149.6	1036.3	954.0	895.5	873.6	871.8	868.1
32.5°	1266.6	1255.6	1306.8	1337.8	1105.7	966.8	857.2	791.4	756.6	749.3	743.8
35°	1357.9	1334.2	1370.7	1343.3	1061.9	868.1	734.7	659.8	634.2	623.2	623.2
37.5°	1463.9	1429.2	1467.6	1326.9	994.2	753.0	606.8	550.1	522.7	506.3	511.7
40°	1588.2	1544.4	1566.3	1308.6	921.1	625.1	500.8	466.0	433.2	411.2	411.2
42.5°	1734.4	1661.3	1677.8	1290.3	817.0	513.6	433.2	409.4	383.8	361.9	367.4
45°	1875.2	1803.9	1787.4	1272.0	707.3	438.6	405.7	389.3	365.5	339.9	339.9
47.5°	2037.8	1946.4	1884.3	1239.1	599.5	414.9	413.0	389.3	343.6	307.0	303.4
50°	2191.3	2107.3	1972.0	1189.8	539.2	435.0	411.2	354.6	310.7	286.9	285.1
52.5°	2354.0	2266.3	2043.3	1129.5	508.1	425.8	378.3	325.3	292.4	268.7	263.2
55°	2514.8	2469.1	2107.3	1071.0	458.7	396.6	350.9	307.0	272.3	250.4	246.7
57.5°	2697.6	2679.3	2162.1	1012.5	382.0	360.0	330.8	294.2	261.4	244.9	243.1
60°	2856.6	2920.6	2227.9	968.6	325.3	332.6	321.7	292.4	268.7	250.4	250.4
62.5°	3024.7	3152.7	2286.4	912.0	283.3	316.2	323.5	290.6	259.5	243.1	243.1
65°	3171.0	3390.3	2346.7	807.8	254.0	303.4	318.0	270.5	233.9	221.1	217.5
66°	3233.1	3457.9	2365.0	743.8	243.1	294.2	308.9	259.5	223.0	212.0	210.2
67.5°	3306.2	3563.9	2386.9	606.8	226.6	274.1	288.8	243.1	204.7	197.4	193.7
70°	3408.5	3585.8	2374.1	396.6	197.4	235.8	257.7	217.5	182.8	177.3	171.8
72.5°	3419.5	3436.0	2246.2	250.4	171.8	202.9	226.6	195.6	160.8	155.3	151.7
75°	3238.6	3044.8	1900.7	179.1	151.7	179.1	199.2	170.0	133.4	126.1	122.5
77.5°	2765.2	2416.1	1367.1	133.4	131.6	153.5	166.3	148.0	111.5	106.0	104.2
80°	1941.0	1639.4	685.4	100.5	104.2	127.9	138.9	124.3	93.2	85.9	82.2
82.5°	785.9	696.3	235.8	74.9	78.6	96.9	118.8	102.3	71.3	62.1	54.8
85°	89.6	151.7	102.3	51.2	53.0	65.8	80.4	62.1	42.0	34.7	29.2
87.5°	18.3	32.9	36.6	20.1	18.3	25.6	36.6	21.9	14.6	5.5	7.3
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)