

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: P594338

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594338
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: ISC-PA1E-827-U-T2U
Description: IMPACT ELITE LED CYLINDER 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: 7780 lumens
Efficiency: N/A
Efficacy: 94.4 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

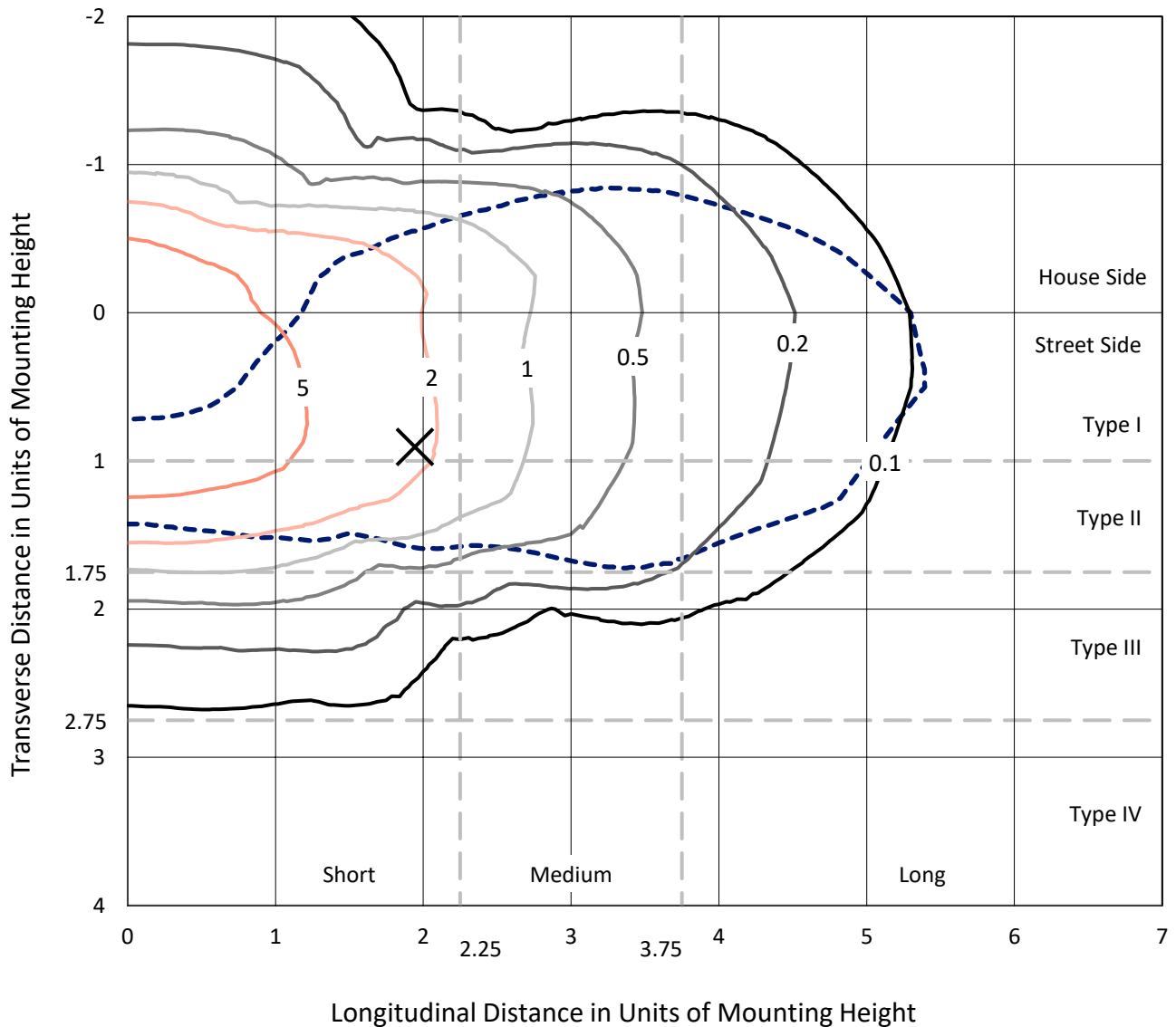
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

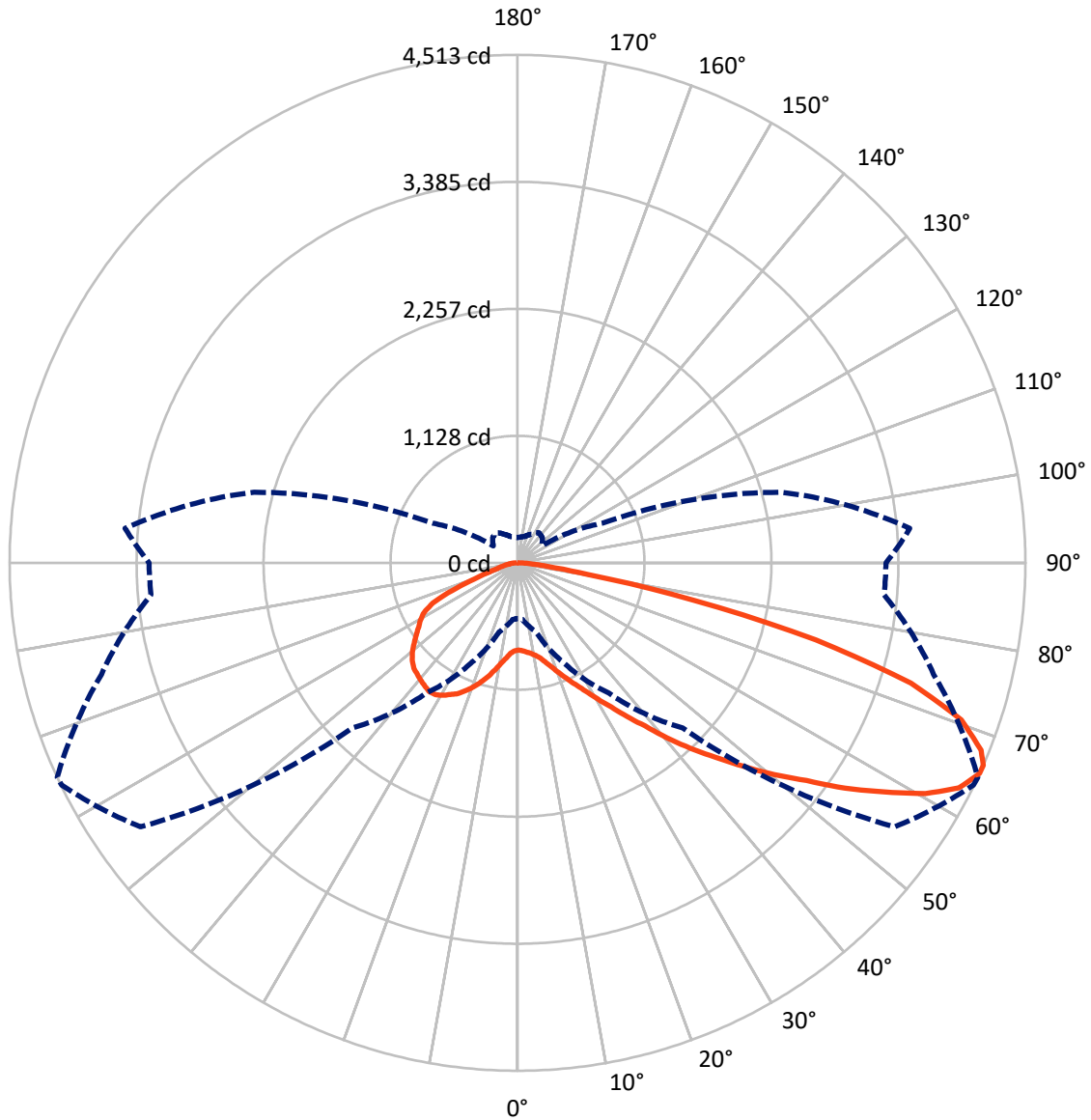
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.6 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	2362.3	0.0	2362.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5417.7	0.0	5417.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	7780.0	0.0	7780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	1.0
10°-20°	275.7	3.5
20°-30°	540.0	6.9
30°-40°	882.4	11.3
40°-50°	1400.6	18.0
50°-60°	1801.4	23.2
60°-70°	1624.5	20.9
70°-80°	1007.5	13.0
80°-90°	168.8	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°	7780.0	100.0
0°-180°	7780.0	100.0

Coefficient of Utilization

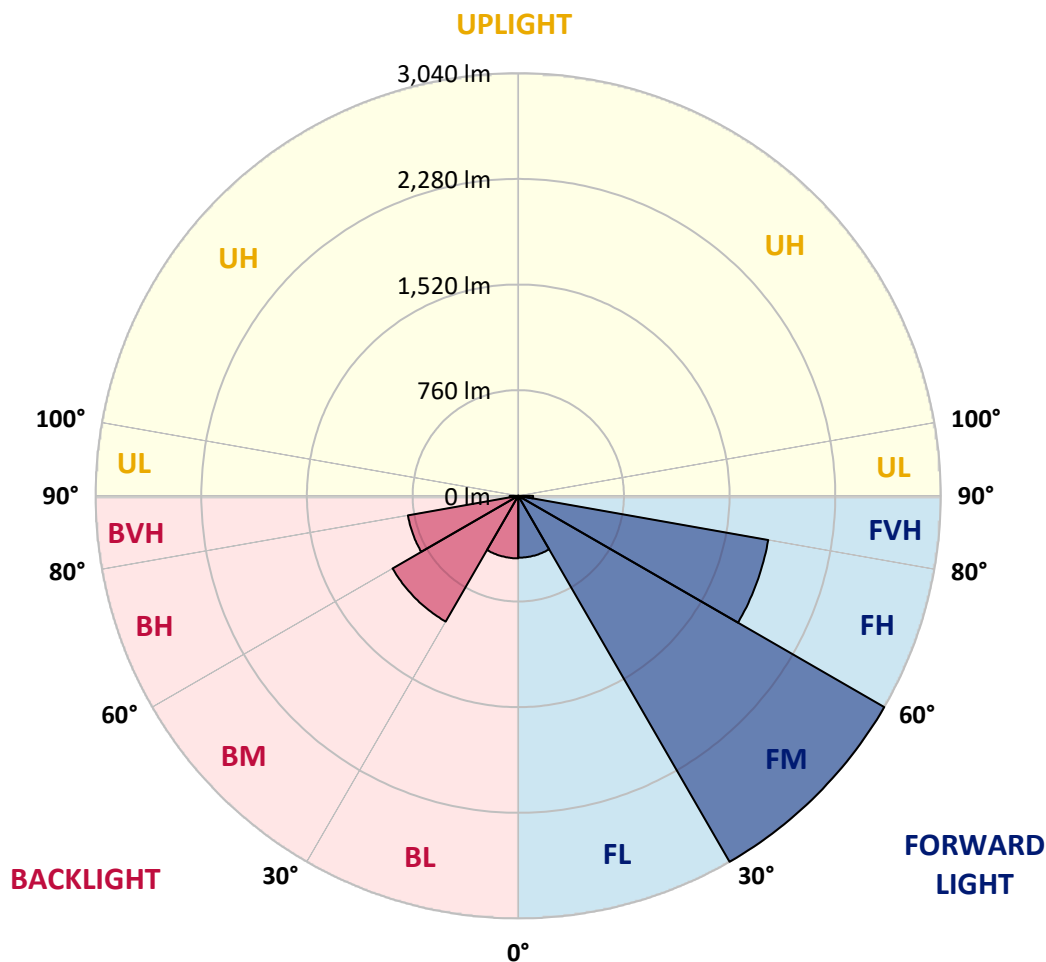


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.9	5.7			
FM (30°-60°)	3040.0	39.1			
FH (60°-80°)	1826.0	23.5			G2/5000
FVH (80°-90°)	106.8	1.4			G2/225
BL (0°-30°)	449.9	5.8	B1/500		
BM (30°-60°)	1044.3	13.4	B2/2500		
BH (60°-80°)	806.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	62.0	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°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
2.5°	777.4	779.3	781.1	777.4	781.1	783.0	779.3	779.3	781.1	777.4	777.4
5°	771.7	773.6	777.4	779.3	786.8	790.6	792.5	792.5	794.3	792.5	794.3
7.5°	756.6	756.6	764.2	767.9	779.3	792.5	800.0	811.3	811.3	813.2	818.9
10°	771.7	771.7	777.4	783.0	792.5	803.8	815.1	828.3	832.1	845.3	852.8
12.5°	794.3	798.1	805.7	813.2	824.5	837.7	847.2	860.4	862.3	875.5	890.6
15°	832.1	835.9	839.6	849.1	864.2	881.1	898.1	907.6	911.3	918.9	930.2
17.5°	888.7	892.5	894.4	900.0	911.3	934.0	958.5	966.0	969.8	969.8	979.3
20°	984.9	983.0	979.3	967.9	967.9	988.7	1022.7	1035.9	1039.6	1032.1	1026.4
22.5°	1096.2	1094.4	1079.3	1066.1	1056.6	1060.4	1094.4	1117.0	1115.1	1100.0	1077.4
25°	1241.5	1245.3	1220.8	1186.8	1158.5	1151.0	1171.7	1194.4	1198.1	1169.8	1132.1
27.5°	1415.1	1409.5	1396.2	1341.5	1286.8	1252.8	1264.2	1288.7	1290.6	1260.4	1200.0
30°	1618.9	1609.5	1575.5	1518.9	1434.0	1386.8	1377.4	1398.1	1403.8	1352.8	1266.1
32.5°	1845.3	1835.9	1792.5	1705.7	1613.2	1534.0	1503.8	1532.1	1528.3	1469.8	1349.1
35°	2118.9	2117.0	2037.8	1930.2	1813.2	1707.6	1666.1	1666.1	1677.4	1590.6	1454.7
37.5°	2484.9	2500.0	2383.0	2215.1	2051.0	1909.5	1839.6	1835.9	1837.8	1743.4	1573.6
40°	2815.1	2809.5	2741.5	2584.9	2345.3	2164.2	2060.4	2037.8	2043.4	1922.7	1728.3
42.5°	3005.7	3011.4	2994.4	2926.4	2717.0	2488.7	2311.3	2251.0	2252.9	2101.9	1875.5
45°	3124.6	3130.2	3128.3	3162.3	3079.3	2864.2	2611.4	2471.7	2464.2	2305.7	2049.1
47.5°	3192.5	3196.3	3220.8	3290.6	3358.5	3309.5	2943.4	2717.0	2701.9	2496.3	2222.7
50°	3117.0	3118.9	3217.0	3383.1	3549.1	3698.2	3283.1	2960.4	2956.6	2707.6	2392.5
52.5°	2720.8	2754.7	2971.7	3318.9	3690.6	3973.6	3675.5	3247.2	3215.1	2907.6	2562.3
55°	2220.8	2235.9	2484.9	2926.4	3664.2	4143.4	3971.7	3556.6	3534.0	3130.2	2728.3
57.5°	1734.0	1749.1	2045.3	2413.2	3260.4	4134.0	4181.2	3890.6	3839.7	3324.6	2894.4
60°	1118.9	1166.1	1509.5	1962.3	2639.7	3847.2	4286.8	4211.4	4164.2	3517.0	3035.9
62.5°	760.4	767.9	983.0	1454.7	1975.5	3126.5	4279.3	4409.5	4401.9	3709.5	3177.4
65°	494.3	505.7	635.9	984.9	1413.2	2075.5	4090.6	4505.7	4513.3	3828.3	3269.8
66°	418.9	426.4	526.4	828.3	1237.8	1645.3	3924.6	4498.2	4513.3	3883.1	3298.2
67.5°	364.2	369.8	420.8	611.3	1011.3	1183.0	3492.5	4398.2	4441.6	3934.0	3334.0
70°	313.2	320.8	367.9	417.0	722.6	690.6	2211.3	4141.6	4185.0	3958.5	3356.6
72.5°	258.5	264.2	311.3	377.4	524.5	464.2	975.5	3545.3	3654.8	3868.0	3320.8
75°	203.8	207.5	250.9	315.1	401.9	362.3	424.5	2600.0	2737.8	3409.5	3181.2
77.5°	158.5	160.4	194.3	245.3	367.9	281.1	262.3	1266.1	1601.9	2634.0	2801.9
80°	109.4	113.2	143.4	184.9	269.8	222.6	175.5	494.3	628.3	1749.1	2124.6
82.5°	71.7	73.6	98.1	139.6	179.2	213.2	115.1	239.6	264.2	805.7	920.8
85°	49.1	49.1	69.8	86.8	122.6	141.5	75.5	126.4	137.7	305.7	111.3
87.5°	24.5	24.5	34.0	45.3	58.5	54.7	45.3	45.3	45.3	100.0	32.1
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°	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5	775.5
2.5°	779.3	779.3	781.1	783.0	784.9	784.9	786.8	786.8	784.9	786.8	788.7
5°	796.2	798.1	801.9	807.6	817.0	826.4	835.9	841.5	847.2	849.1	845.3
7.5°	822.7	826.4	839.6	854.7	869.8	892.5	905.7	913.2	917.0	920.8	917.0
10°	856.6	864.2	883.0	909.4	935.9	964.2	979.3	990.6	992.5	996.2	992.5
12.5°	896.2	909.4	937.7	975.5	1007.6	1035.9	1047.2	1039.6	1022.7	1015.1	1013.2
15°	943.4	956.6	996.2	1043.4	1081.1	1094.4	1077.4	1052.8	1034.0	1032.1	1030.2
17.5°	984.9	1003.8	1058.5	1107.6	1143.4	1130.2	1084.9	1069.8	1064.2	1071.7	1069.8
20°	1037.7	1052.8	1107.6	1167.9	1186.8	1135.9	1103.8	1094.4	1088.7	1088.7	1084.9
22.5°	1081.1	1092.5	1158.5	1224.5	1213.2	1139.6	1117.0	1098.1	1079.3	1077.4	1071.7
25°	1132.1	1135.9	1205.7	1277.4	1217.0	1143.4	1103.8	1071.7	1052.8	1047.2	1049.1
27.5°	1179.3	1188.7	1249.1	1313.2	1207.6	1122.7	1058.5	1017.0	988.7	986.8	986.8
30°	1239.6	1239.6	1294.4	1352.8	1186.8	1069.8	984.9	924.5	901.9	900.0	896.2
32.5°	1307.6	1296.2	1349.1	1381.1	1141.5	998.1	884.9	817.0	781.1	773.6	767.9
35°	1401.9	1377.4	1415.1	1386.8	1096.2	896.2	758.5	681.1	654.7	643.4	643.4
37.5°	1511.3	1475.5	1515.1	1369.8	1026.4	777.4	626.4	567.9	539.6	522.6	528.3
40°	1639.6	1594.4	1617.0	1351.0	951.0	645.3	517.0	481.1	447.2	424.5	424.5
42.5°	1790.6	1715.1	1732.1	1332.1	843.4	530.2	447.2	422.6	396.2	373.6	379.2
45°	1935.9	1862.3	1845.3	1313.2	730.2	452.8	418.9	401.9	377.4	350.9	350.9
47.5°	2103.8	2009.5	1945.3	1279.3	618.9	428.3	426.4	401.9	354.7	317.0	313.2
50°	2262.3	2175.5	2035.9	1228.3	556.6	449.1	424.5	366.0	320.8	296.2	294.3
52.5°	2430.2	2339.7	2109.5	1166.1	524.5	439.6	390.6	335.9	301.9	277.4	271.7
55°	2596.3	2549.1	2175.5	1105.7	473.6	409.4	362.3	317.0	281.1	258.5	254.7
57.5°	2784.9	2766.1	2232.1	1045.3	394.3	371.7	341.5	303.8	269.8	252.8	250.9
60°	2949.1	3015.1	2300.0	1000.0	335.9	343.4	332.1	301.9	277.4	258.5	258.5
62.5°	3122.7	3254.8	2360.4	941.5	292.5	326.4	334.0	300.0	267.9	250.9	250.9
65°	3273.6	3500.0	2422.7	834.0	262.3	313.2	328.3	279.2	241.5	228.3	224.5
66°	3337.8	3569.9	2441.5	767.9	250.9	303.8	318.9	267.9	230.2	218.9	217.0
67.5°	3413.2	3679.3	2464.2	626.4	234.0	283.0	298.1	250.9	211.3	203.8	200.0
70°	3518.9	3701.9	2451.0	409.4	203.8	243.4	266.0	224.5	188.7	183.0	177.4
72.5°	3530.2	3547.2	2318.9	258.5	177.4	209.4	234.0	201.9	166.0	160.4	156.6
75°	3343.4	3143.4	1962.3	184.9	156.6	184.9	205.7	175.5	137.7	130.2	126.4
77.5°	2854.8	2494.4	1411.3	137.7	135.9	158.5	171.7	152.8	115.1	109.4	107.5
80°	2003.8	1692.5	707.6	103.8	107.5	132.1	143.4	128.3	96.2	88.7	84.9
82.5°	811.3	718.9	243.4	77.4	81.1	100.0	122.6	105.7	73.6	64.2	56.6
85°	92.5	156.6	105.7	52.8	54.7	67.9	83.0	64.2	43.4	35.8	30.2
87.5°	18.9	34.0	37.7	20.8	18.9	26.4	37.7	22.6	15.1	5.7	7.5
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)