

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: P594176

Luminaire Tested: **ISC-PA1C-827-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594176  
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-PA1C-827-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 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: 5087 lumens  
Efficiency: N/A  
Efficacy: 104.0 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

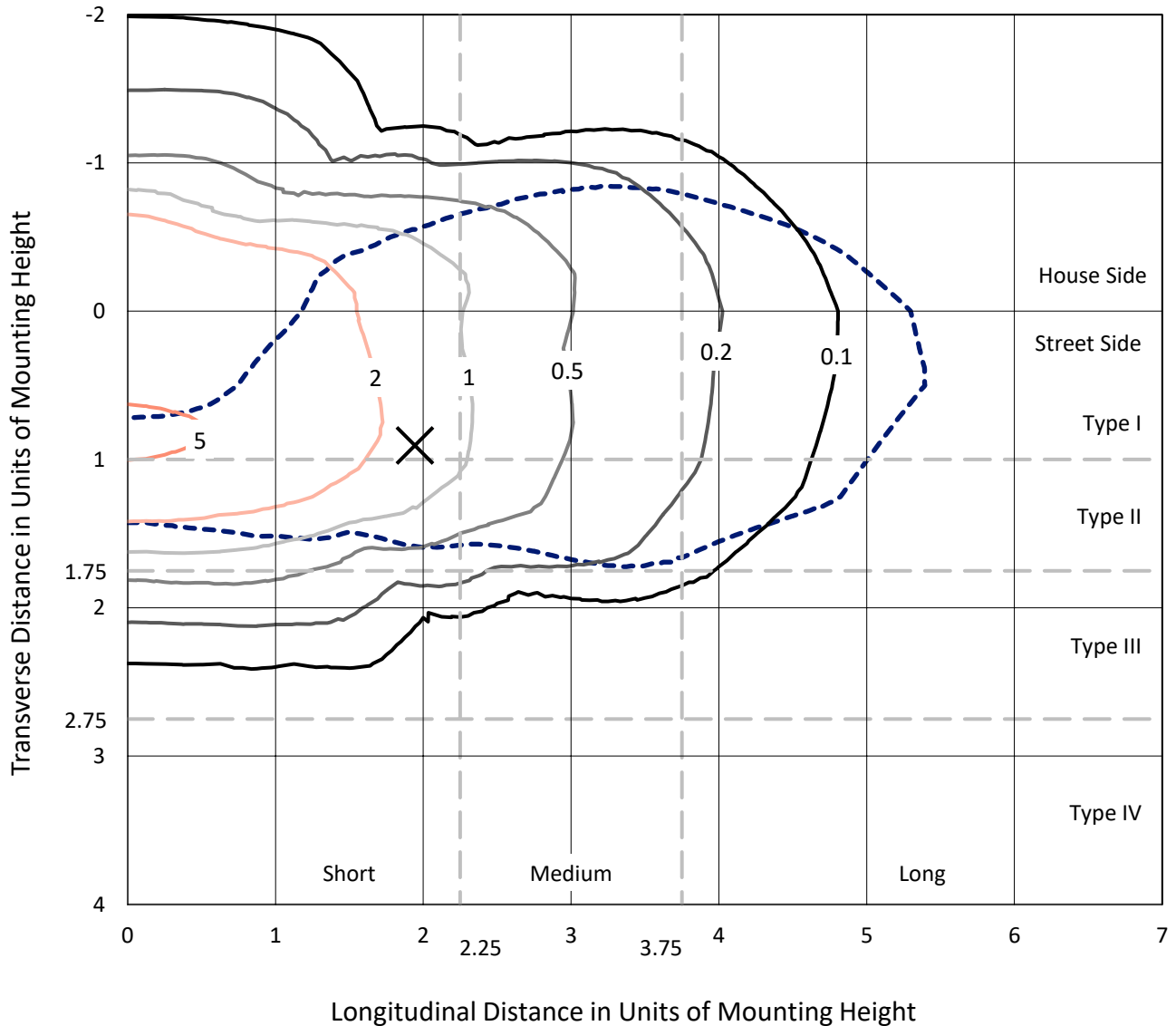
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

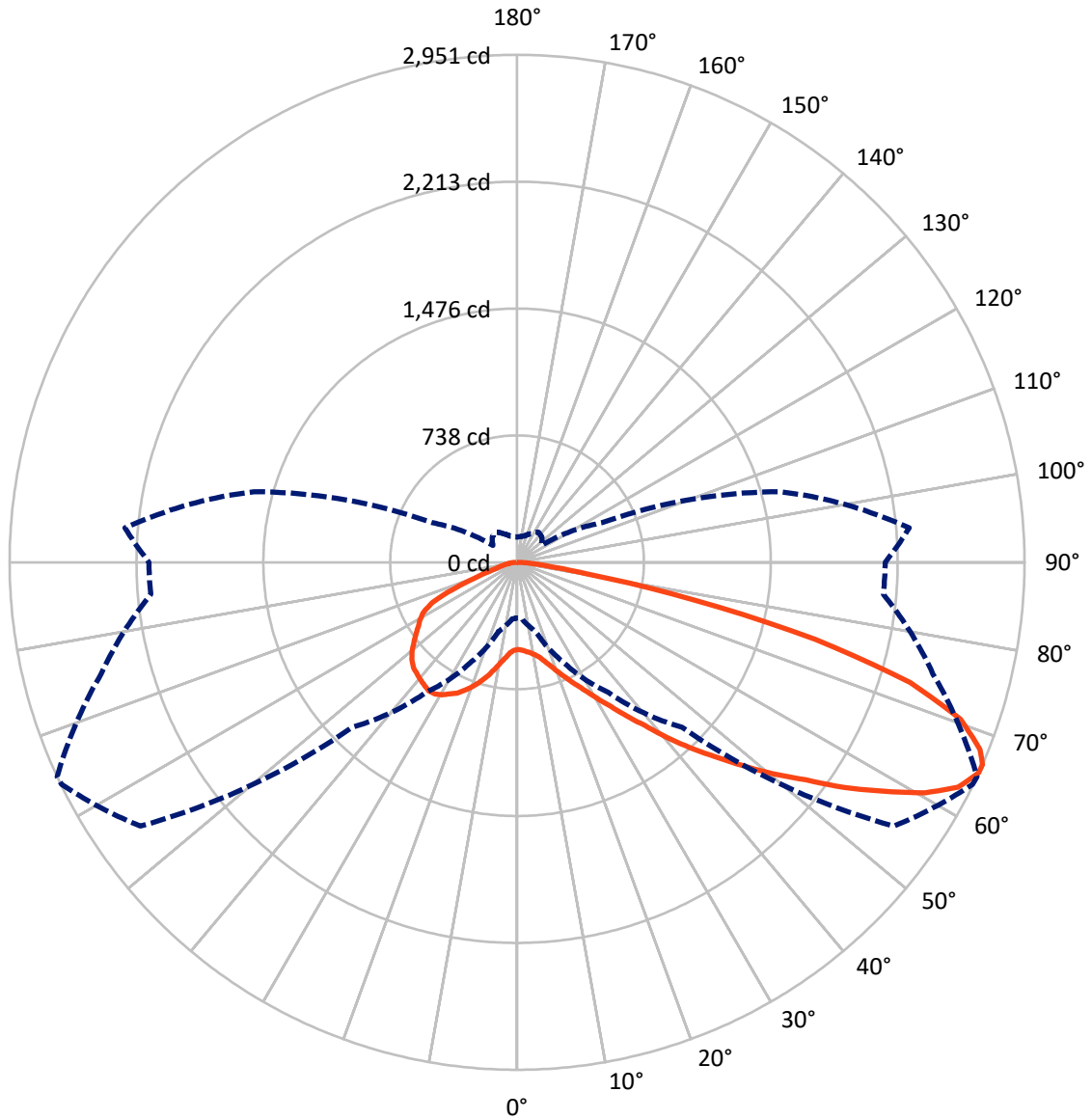
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	1544.6	0.0	1544.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	3542.4	0.0	3542.4
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	5087.0	0.0	5087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	1.0
10°-20°	180.3	3.5
20°-30°	353.1	6.9
30°-40°	577.0	11.3
40°-50°	915.8	18.0
50°-60°	1177.8	23.2
60°-70°	1062.2	20.9
70°-80°	658.8	13.0
80°-90°	110.4	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°	5087.0	100.0
0°-180°	5087.0	100.0

**Coefficient of Utilization**

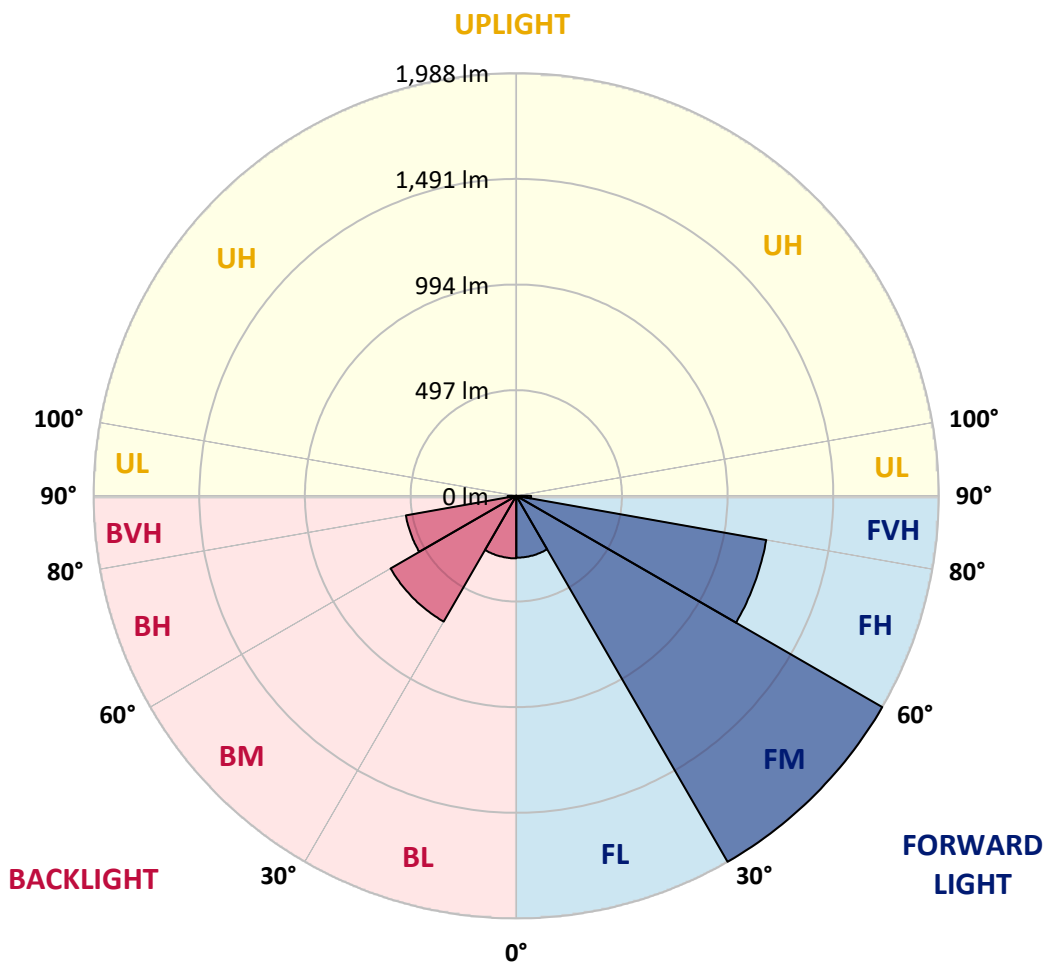


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.9	5.7			
FM (30°-60°)	1987.7	39.1			
FH (60°-80°)	1193.9	23.5			G1/1800
FVH (80°-90°)	69.8	1.4			G1/100
BL (0°-30°)	294.2	5.8	B1/500		
BM (30°-60°)	682.8	13.4	B1/1000		
BH (60°-80°)	527.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	40.6	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°	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1
2.5°	508.3	509.5	510.8	508.3	510.8	512.0	509.5	509.5	510.8	508.3	508.3
5°	504.6	505.8	508.3	509.5	514.5	516.9	518.2	518.2	519.4	518.2	519.4
7.5°	494.7	494.7	499.7	502.1	509.5	518.2	523.1	530.5	530.5	531.7	535.4
10°	504.6	504.6	508.3	512.0	518.2	525.6	533.0	541.6	544.1	552.7	557.6
12.5°	519.4	521.9	526.8	531.7	539.1	547.8	553.9	562.6	563.8	572.4	582.3
15°	544.1	546.5	549.0	555.2	565.0	576.1	587.2	593.4	595.9	600.8	608.2
17.5°	581.1	583.5	584.8	588.5	595.9	610.7	626.7	631.7	634.1	634.1	640.3
20°	644.0	642.8	640.3	632.9	632.9	646.5	668.7	677.3	679.8	674.8	671.1
22.5°	716.8	715.5	705.7	697.0	690.9	693.3	715.5	730.4	729.1	719.3	704.4
25°	811.8	814.2	798.2	776.0	757.5	752.6	766.1	780.9	783.4	764.9	740.2
27.5°	925.3	921.6	912.9	877.2	841.4	819.2	826.6	842.6	843.9	824.1	784.6
30°	1058.5	1052.4	1030.1	993.1	937.6	906.8	900.6	914.2	917.9	884.6	827.8
32.5°	1206.6	1200.4	1172.0	1115.3	1054.8	1003.0	983.3	1001.8	999.3	961.1	882.1
35°	1385.5	1384.2	1332.4	1262.1	1185.6	1116.5	1089.4	1089.4	1096.8	1040.0	951.2
37.5°	1624.8	1634.7	1558.2	1448.4	1341.0	1248.5	1202.9	1200.4	1201.6	1139.9	1028.9
40°	1840.7	1837.0	1792.6	1690.2	1533.5	1415.1	1347.2	1332.4	1336.1	1257.1	1130.1
42.5°	1965.3	1969.0	1957.9	1913.5	1776.5	1627.3	1511.3	1471.8	1473.0	1374.3	1226.3
45°	2043.0	2046.7	2045.5	2067.7	2013.4	1872.8	1707.4	1616.2	1611.2	1507.6	1339.8
47.5°	2087.4	2089.9	2105.9	2151.6	2196.0	2163.9	1924.6	1776.5	1766.7	1632.2	1453.3
50°	2038.1	2039.3	2103.5	2212.0	2320.6	2418.1	2146.6	1935.7	1933.2	1770.4	1564.3
52.5°	1779.0	1801.2	1943.1	2170.1	2413.1	2598.2	2403.3	2123.2	2102.2	1901.1	1675.4
55°	1452.1	1461.9	1624.8	1913.5	2395.9	2709.2	2596.9	2325.5	2310.7	2046.7	1783.9
57.5°	1133.8	1143.6	1337.3	1577.9	2131.8	2703.0	2733.9	2543.9	2510.6	2173.8	1892.5
60°	731.6	762.4	987.0	1283.1	1726.0	2515.5	2803.0	2753.6	2722.8	2299.6	1985.0
62.5°	497.2	502.1	642.8	951.2	1291.7	2044.2	2798.0	2883.2	2878.2	2425.5	2077.6
65°	323.2	330.6	415.8	644.0	924.0	1357.1	2674.7	2946.1	2951.0	2503.2	2138.0
66°	273.9	278.8	344.2	541.6	809.3	1075.8	2566.1	2941.2	2951.0	2539.0	2156.5
67.5°	238.1	241.8	275.1	399.7	661.3	773.5	2283.6	2875.8	2904.1	2572.3	2180.0
70°	204.8	209.7	240.6	272.6	472.5	451.5	1445.9	2708.0	2736.4	2588.3	2194.8
72.5°	169.0	172.7	203.6	246.7	343.0	303.5	637.8	2318.1	2389.7	2529.1	2171.3
75°	133.2	135.7	164.1	206.0	262.8	236.9	277.6	1700.0	1790.1	2229.3	2080.0
77.5°	103.6	104.9	127.1	160.4	240.6	183.8	171.5	827.8	1047.4	1722.3	1832.1
80°	71.6	74.0	93.8	120.9	176.4	145.6	114.7	323.2	410.8	1143.6	1389.2
82.5°	46.9	48.1	64.2	91.3	117.2	139.4	75.3	156.7	172.7	526.8	602.0
85°	32.1	32.1	45.6	56.8	80.2	92.5	49.3	82.7	90.1	199.9	72.8
87.5°	16.0	16.0	22.2	29.6	38.2	35.8	29.6	29.6	29.6	65.4	21.0
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°	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1	507.1
2.5°	509.5	509.5	510.8	512.0	513.2	513.2	514.5	514.5	513.2	514.5	515.7
5°	520.6	521.9	524.3	528.0	534.2	540.4	546.5	550.2	553.9	555.2	552.7
7.5°	537.9	540.4	549.0	558.9	568.7	583.5	592.2	597.1	599.6	602.0	599.6
10°	560.1	565.0	577.4	594.6	611.9	630.4	640.3	647.7	648.9	651.4	648.9
12.5°	586.0	594.6	613.2	637.8	658.8	677.3	684.7	679.8	668.7	663.7	662.5
15°	616.9	625.5	651.4	682.2	706.9	715.5	704.4	688.4	676.1	674.8	673.6
17.5°	644.0	656.3	692.1	724.2	747.6	739.0	709.4	699.5	695.8	700.7	699.5
20°	678.5	688.4	724.2	763.7	776.0	742.7	721.7	715.5	711.8	711.8	709.4
22.5°	706.9	714.3	757.5	800.7	793.3	745.2	730.4	718.0	705.7	704.4	700.7
25°	740.2	742.7	788.3	835.2	795.7	747.6	721.7	700.7	688.4	684.7	685.9
27.5°	771.1	777.2	816.7	858.7	789.6	734.1	692.1	665.0	646.5	645.2	645.2
30°	810.5	810.5	846.3	884.6	776.0	699.5	644.0	604.5	589.7	588.5	586.0
32.5°	855.0	847.6	882.1	903.1	746.4	652.6	578.6	534.2	510.8	505.8	502.1
35°	916.6	900.6	925.3	906.8	716.8	586.0	495.9	445.4	428.1	420.7	420.7
37.5°	988.2	964.8	990.7	895.7	671.1	508.3	409.6	371.3	352.8	341.7	345.4
40°	1072.1	1042.5	1057.3	883.3	621.8	421.9	338.0	314.6	292.4	277.6	277.6
42.5°	1170.8	1121.4	1132.5	871.0	551.5	346.7	292.4	276.3	259.1	244.3	248.0
45°	1265.8	1217.7	1206.6	858.7	477.4	296.1	273.9	262.8	246.7	229.5	229.5
47.5°	1375.6	1313.9	1271.9	836.5	404.7	280.1	278.8	262.8	231.9	207.3	204.8
50°	1479.2	1422.5	1331.2	803.1	363.9	293.6	277.6	239.3	209.7	193.7	192.5
52.5°	1589.0	1529.8	1379.3	762.4	343.0	287.5	255.4	219.6	197.4	181.4	177.7
55°	1697.6	1666.7	1422.5	723.0	309.7	267.7	236.9	207.3	183.8	169.0	166.6
57.5°	1820.9	1808.6	1459.5	683.5	257.8	243.0	223.3	198.6	176.4	165.3	164.1
60°	1928.3	1971.5	1503.9	653.9	219.6	224.5	217.1	197.4	181.4	169.0	169.0
62.5°	2041.8	2128.1	1543.4	615.6	191.2	213.4	218.4	196.2	175.2	164.1	164.1
65°	2140.5	2288.5	1584.1	545.3	171.5	204.8	214.7	182.6	157.9	149.3	146.8
66°	2182.4	2334.2	1596.4	502.1	164.1	198.6	208.5	175.2	150.5	143.1	141.9
67.5°	2231.8	2405.7	1611.2	409.6	153.0	185.1	194.9	164.1	138.2	133.2	130.8
70°	2300.9	2420.5	1602.6	267.7	133.2	159.1	174.0	146.8	123.4	119.7	116.0
72.5°	2308.3	2319.4	1516.2	169.0	116.0	136.9	153.0	132.0	108.6	104.9	102.4
75°	2186.1	2055.4	1283.1	120.9	102.4	120.9	134.5	114.7	90.1	85.1	82.7
77.5°	1866.6	1631.0	922.8	90.1	88.8	103.6	112.3	99.9	75.3	71.6	70.3
80°	1310.2	1106.6	462.6	67.9	70.3	86.4	93.8	83.9	62.9	58.0	55.5
82.5°	530.5	470.0	159.1	50.6	53.0	65.4	80.2	69.1	48.1	41.9	37.0
85°	60.5	102.4	69.1	34.5	35.8	44.4	54.3	41.9	28.4	23.4	19.7
87.5°	12.3	22.2	24.7	13.6	12.3	17.3	24.7	14.8	9.9	3.7	4.9
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)