

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: P594228

Luminaire Tested: **ISC-PA1D-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1D-740-U-T2R
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8733 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

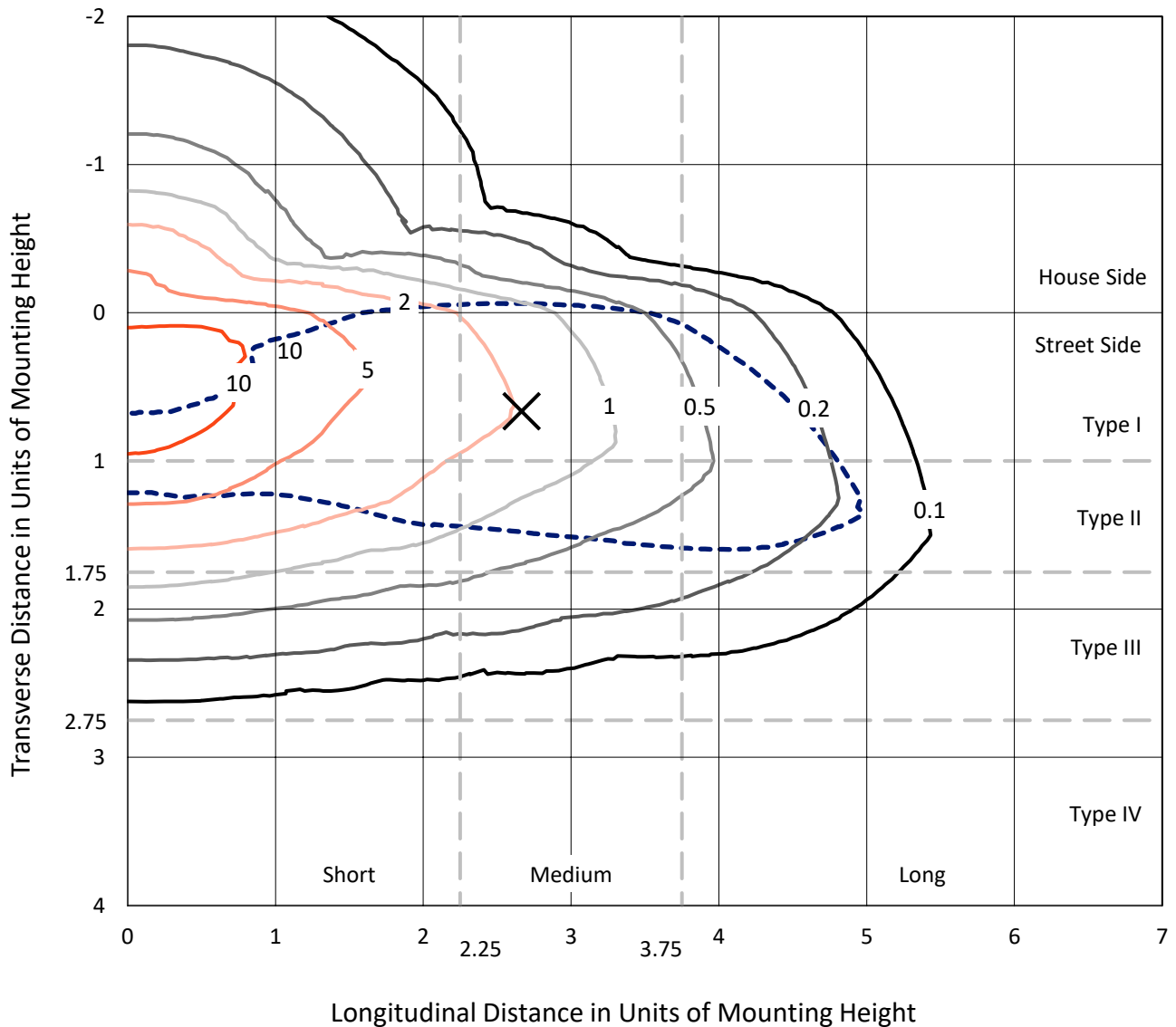




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Iso-Footcandle Lines of Horizontal Illumination

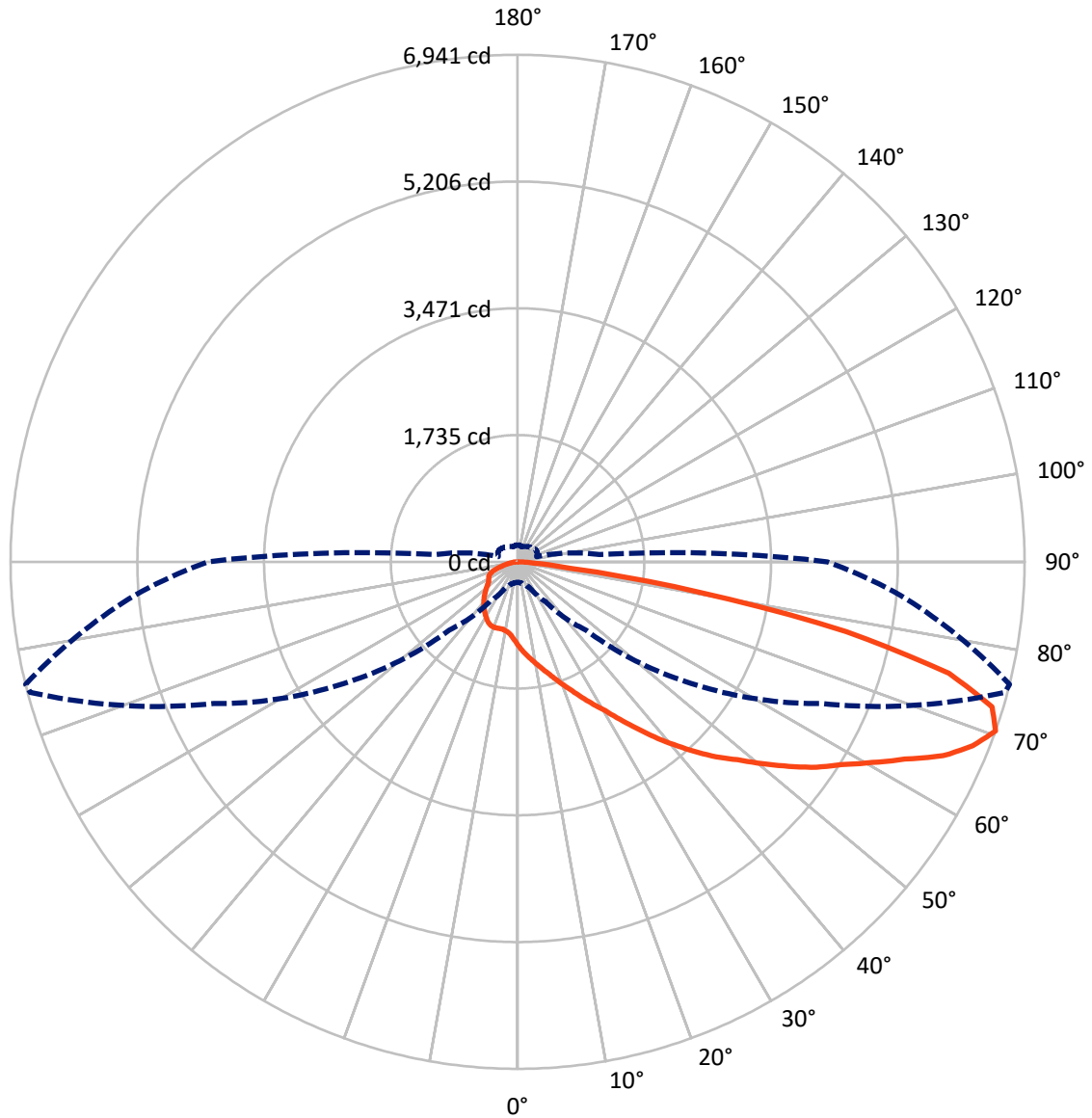
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1400.7	0.0	1400.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7332.3	0.0	7332.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	8733.0	0.0	8733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.3
10°-20°	368.5	4.2
20°-30°	679.0	7.8
30°-40°	1137.7	13.0
40°-50°	1616.5	18.5
50°-60°	1866.4	21.4
60°-70°	1715.7	19.6
70°-80°	1081.9	12.4
80°-90°	155.6	1.8
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°	8733.0	100.0
0°-180°	8733.0	100.0

Coefficient of Utilization



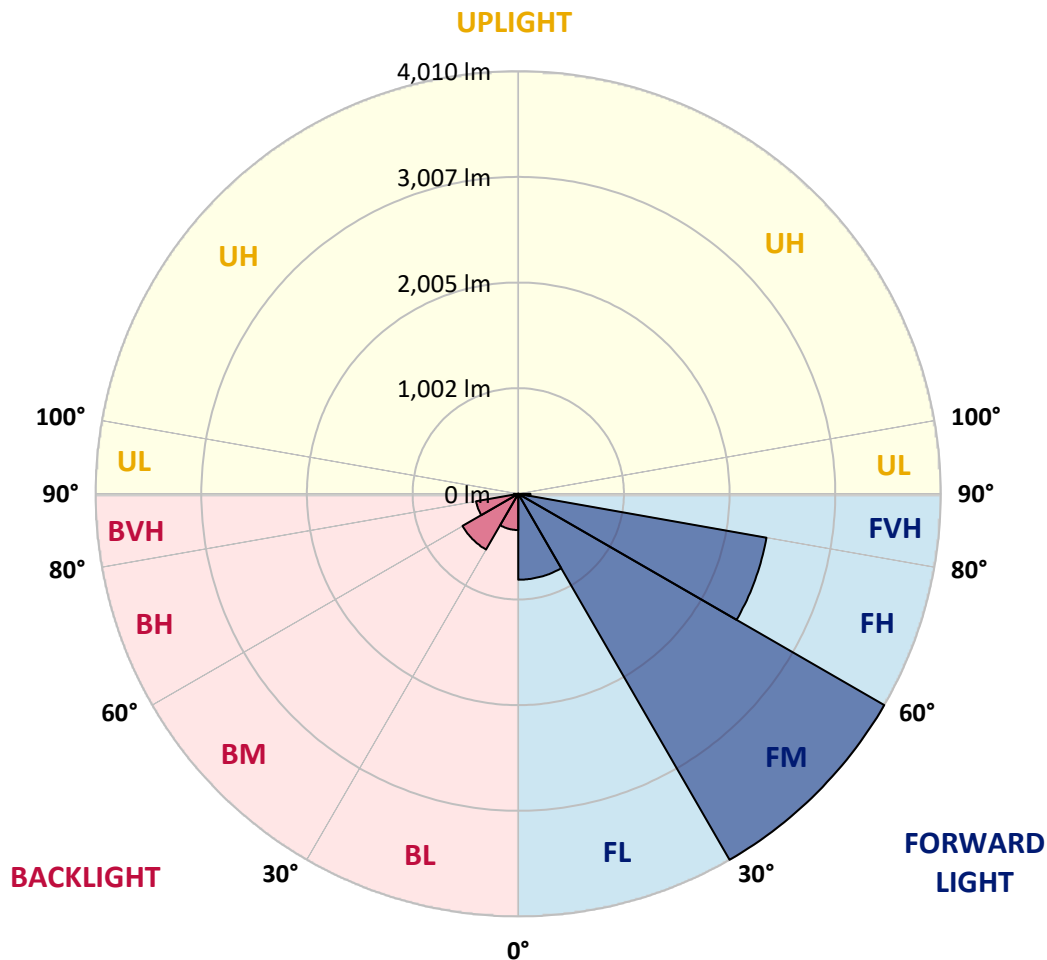
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.3	9.3			
FM (30°-60°)	4010.0	45.9			
FH (60°-80°)	2391.6	27.4			G2/5000
FVH (80°-90°)	115.3	1.3			G2/225
BL (0°-30°)	343.8	3.9	B1/500		
BM (30°-60°)	610.7	7.0	B1/1000		
BH (60°-80°)	406.0	4.6	B1/500		G1/500
BVH (80°-90°)	40.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6
2.5°	1379.0	1376.9	1370.6	1360.1	1351.6	1326.4	1292.8	1263.4	1219.2	1215.0	1170.9
5°	1503.0	1494.6	1494.6	1484.1	1473.6	1446.2	1404.2	1351.6	1288.6	1284.4	1200.3
7.5°	1561.9	1564.0	1559.8	1551.3	1553.4	1530.3	1492.5	1439.9	1353.7	1349.5	1240.2
10°	1645.9	1643.8	1635.4	1629.1	1627.0	1606.0	1572.4	1524.0	1433.6	1425.2	1286.5
12.5°	1727.9	1721.6	1723.7	1721.6	1717.4	1696.4	1664.9	1616.5	1505.1	1500.9	1343.2
15°	1774.2	1772.1	1786.8	1791.0	1807.8	1788.9	1761.6	1706.9	1606.0	1589.2	1410.5
17.5°	1803.6	1801.5	1816.2	1849.8	1881.4	1881.4	1873.0	1814.1	1702.7	1690.1	1486.2
20°	1854.0	1862.5	1887.7	1915.0	1961.3	1969.7	1967.6	1942.3	1814.1	1801.5	1570.3
22.5°	1954.9	1950.7	1971.8	2013.8	2055.8	2068.5	2070.6	2070.6	1942.3	1919.2	1656.4
25°	2171.5	2160.9	2144.1	2139.9	2190.4	2188.3	2182.0	2196.7	2076.9	2060.0	1755.2
27.5°	2583.5	2560.3	2495.2	2364.9	2335.4	2345.9	2314.4	2316.5	2230.3	2209.3	1839.3
30°	2974.5	2963.9	2903.0	2745.3	2579.3	2520.4	2465.8	2442.6	2400.6	2364.9	1929.7
32.5°	3327.6	3329.7	3256.1	3083.8	2913.5	2728.5	2633.9	2585.6	2602.4	2570.9	2053.7
35°	3567.2	3548.3	3502.1	3386.5	3201.5	3024.9	2844.1	2736.9	2827.3	2791.6	2177.8
37.5°	3708.1	3693.4	3655.5	3573.6	3481.1	3310.8	3081.7	2917.7	3094.3	3041.7	2335.4
40°	3779.6	3758.5	3720.7	3687.1	3642.9	3550.4	3348.6	3123.7	3338.1	3291.9	2491.0
42.5°	3788.0	3773.3	3752.2	3735.4	3750.1	3737.5	3609.3	3363.3	3594.6	3544.1	2669.7
45°	3781.7	3792.2	3766.9	3737.5	3766.9	3874.2	3874.2	3603.0	3848.9	3811.1	2839.9
47.5°	3785.9	3775.4	3766.9	3758.5	3762.7	3909.9	4057.0	3827.9	4092.8	4048.6	3039.6
50°	3611.4	3626.1	3697.6	3729.1	3748.0	3918.3	4204.2	4071.7	4395.5	4340.8	3262.4
52.5°	3056.4	3064.8	3390.7	3626.1	3701.8	3884.7	4307.2	4342.9	4694.0	4651.9	3502.1
55°	2354.3	2398.5	2707.5	3283.5	3596.7	3827.9	4338.7	4519.5	4998.8	4965.1	3743.8
57.5°	1938.1	1944.4	2123.1	2638.1	3264.5	3775.4	4370.2	4681.4	5272.0	5234.2	3996.1
60°	1608.1	1593.4	1702.7	2034.8	2711.7	3565.1	4376.6	4809.6	5589.5	5576.8	4256.7
62.5°	1181.4	1198.2	1303.3	1585.0	2121.0	3138.4	4345.0	4918.9	5967.8	5951.0	4546.8
65°	725.2	746.2	874.5	1133.0	1606.0	2491.0	4139.0	4975.6	6365.1	6403.0	4860.0
67.5°	384.7	399.4	475.1	685.3	1101.5	1898.2	3642.9	4904.2	6701.5	6718.3	5160.6
70°	281.7	283.8	309.0	386.8	664.3	1320.1	2900.9	4593.1	6907.5	6941.1	5259.4
72.5°	245.9	248.0	258.6	277.5	361.6	805.1	2079.0	4050.7	6821.3	6791.9	5093.4
75°	222.8	222.8	231.2	237.5	264.9	445.6	1273.9	3315.0	6163.3	6098.2	4342.9
77.5°	191.3	191.3	199.7	208.1	229.1	288.0	666.4	2457.3	4712.9	4601.5	2970.3
80°	153.5	153.5	164.0	174.5	201.8	216.5	325.8	1643.8	2694.9	2530.9	1351.6
82.5°	105.1	113.5	132.4	145.0	168.2	153.5	191.3	710.5	849.2	735.7	304.8
85°	63.1	67.3	94.6	109.3	126.1	82.0	117.7	273.3	254.4	222.8	69.4
87.5°	6.3	10.5	37.8	44.1	44.1	23.1	50.5	65.2	73.6	75.7	16.8
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°	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6	1145.6
2.5°	1145.6	1120.4	1072.1	1027.9	983.8	954.3	924.9	914.4	899.7	889.2	897.6
5°	1156.1	1103.6	1011.1	933.3	880.8	840.8	821.9	811.4	803.0	800.9	798.8
7.5°	1168.8	1091.0	967.0	880.8	830.3	811.4	807.2	807.2	807.2	809.3	811.4
10°	1196.1	1095.2	943.8	851.3	824.0	819.8	821.9	830.3	830.3	832.4	832.4
12.5°	1227.6	1105.7	927.0	847.1	830.3	832.4	834.5	838.7	838.7	845.0	842.9
15°	1273.9	1126.7	924.9	851.3	836.6	832.4	832.4	830.3	830.3	830.3	834.5
17.5°	1332.7	1156.1	927.0	851.3	830.3	821.9	815.6	809.3	800.9	805.1	800.9
20°	1391.6	1191.9	927.0	840.8	813.5	792.5	773.6	763.1	752.5	750.4	752.5
22.5°	1465.2	1233.9	916.5	817.7	777.8	748.3	721.0	706.3	689.5	683.2	679.0
25°	1528.2	1267.6	895.5	784.1	737.8	695.8	660.1	634.8	613.8	609.6	609.6
27.5°	1593.4	1297.0	864.0	742.0	681.1	634.8	594.9	563.4	542.3	540.2	538.1
30°	1654.3	1322.2	821.9	695.8	630.6	576.0	529.7	502.4	483.5	473.0	466.7
32.5°	1734.2	1355.8	782.0	649.5	571.8	517.1	475.1	451.9	426.7	409.9	403.6
35°	1835.1	1395.8	737.8	599.1	519.2	464.6	439.3	405.7	374.2	355.3	348.9
37.5°	1948.6	1452.5	691.6	546.5	466.7	426.7	412.0	359.5	325.8	319.5	317.4
40°	2089.5	1507.2	639.0	491.9	416.2	405.7	380.5	325.8	309.0	306.9	304.8
42.5°	2230.3	1566.1	588.6	437.2	376.3	380.5	344.7	317.4	302.7	298.5	296.4
45°	2394.3	1624.9	538.1	388.9	344.7	344.7	325.8	309.0	296.4	292.2	292.2
47.5°	2566.7	1683.8	483.5	346.8	321.6	309.0	311.1	298.5	290.1	285.9	283.8
50°	2783.2	1740.5	433.0	317.4	306.9	290.1	296.4	288.0	283.8	279.6	277.5
52.5°	2987.1	1765.8	386.8	300.6	298.5	281.7	283.8	279.6	277.5	271.2	269.1
55°	3186.8	1759.4	351.0	292.2	288.0	279.6	275.4	273.3	271.2	264.9	262.8
57.5°	3409.6	1751.0	327.9	290.1	281.7	273.3	273.3	267.0	258.6	258.6	258.6
60°	3640.8	1723.7	317.4	290.1	279.6	273.3	269.1	262.8	254.4	256.5	254.4
62.5°	3901.5	1671.2	311.1	296.4	281.7	271.2	267.0	258.6	248.0	250.1	248.0
65°	4130.6	1564.0	306.9	302.7	285.9	273.3	262.8	252.3	239.6	241.7	239.6
67.5°	4286.2	1383.2	294.3	306.9	292.2	271.2	258.6	243.8	227.0	235.4	233.3
70°	4242.0	1124.6	271.2	298.5	298.5	273.3	252.3	233.3	214.4	231.2	224.9
72.5°	3899.4	845.0	227.0	269.1	294.3	273.3	239.6	216.5	199.7	210.2	197.6
75°	3201.5	573.9	180.8	214.4	275.4	275.4	229.1	199.7	178.7	172.4	168.2
77.5°	1997.0	357.4	140.8	157.7	231.2	273.3	218.6	178.7	149.2	145.0	140.8
80°	790.4	191.3	111.4	113.5	170.3	250.1	203.9	151.4	119.8	115.6	107.2
82.5°	180.8	96.7	77.8	75.7	105.1	203.9	185.0	119.8	92.5	92.5	77.8
85°	54.7	50.5	50.5	48.3	52.6	105.1	142.9	82.0	63.1	44.1	37.8
87.5°	14.7	21.0	18.9	16.8	16.8	14.7	46.2	21.0	12.6	6.3	4.2
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)