

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: P593949

Luminaire Tested: **ISC-PA1A-727-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593949  
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-PA1A-727-U-T2R  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3593 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 28.9  
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

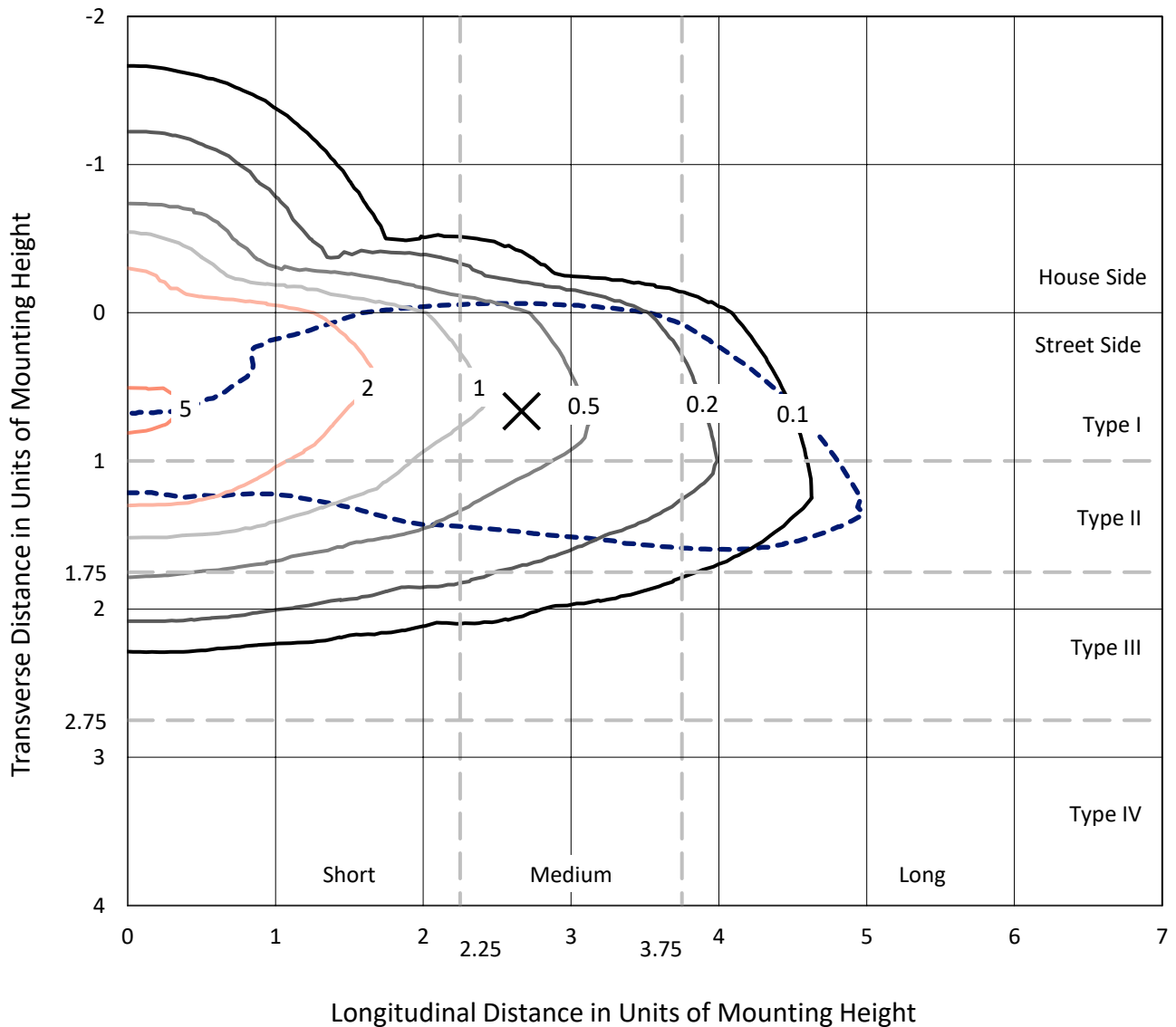




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### Iso-Footcandle Lines of Horizontal Illumination

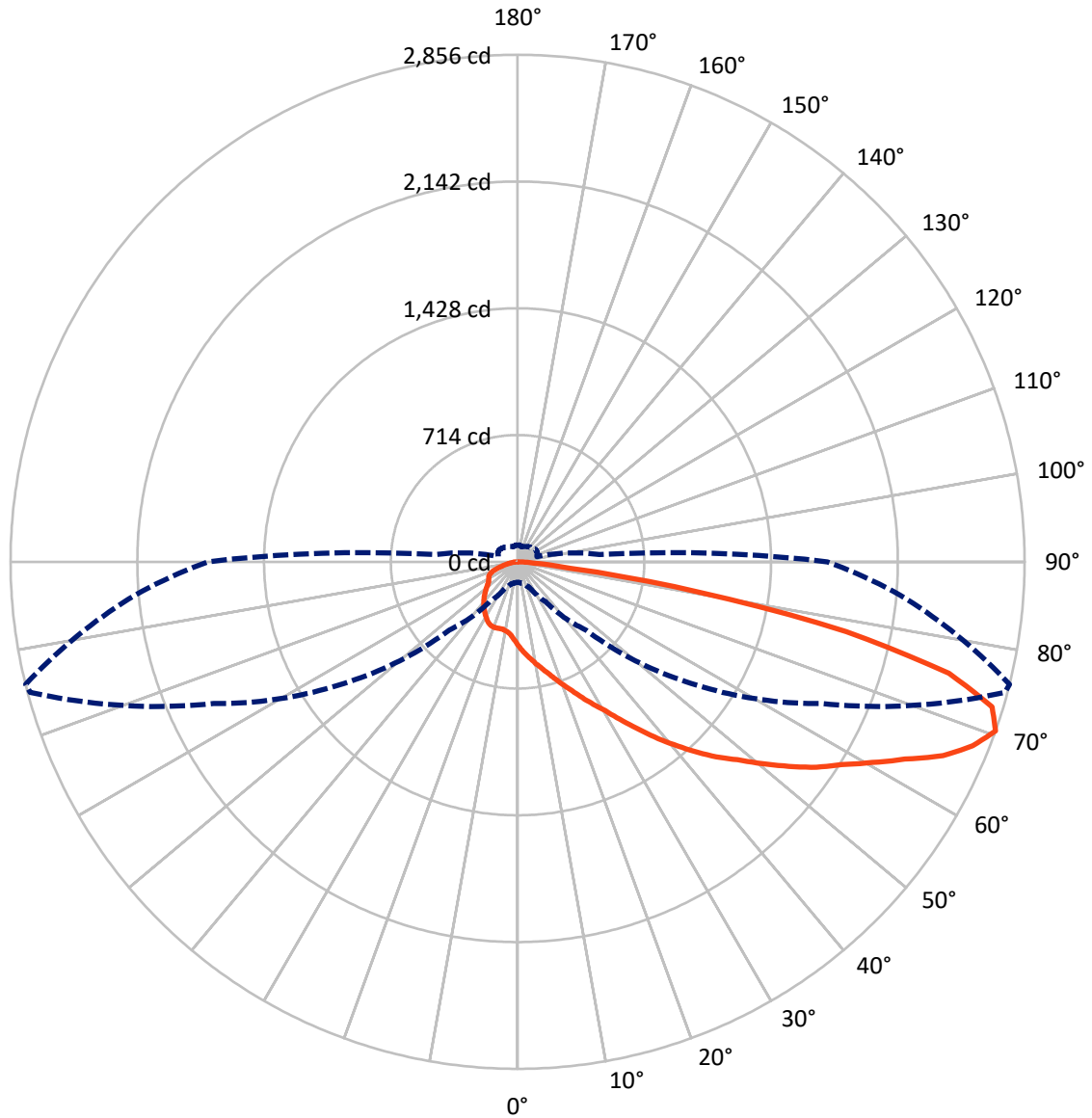
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 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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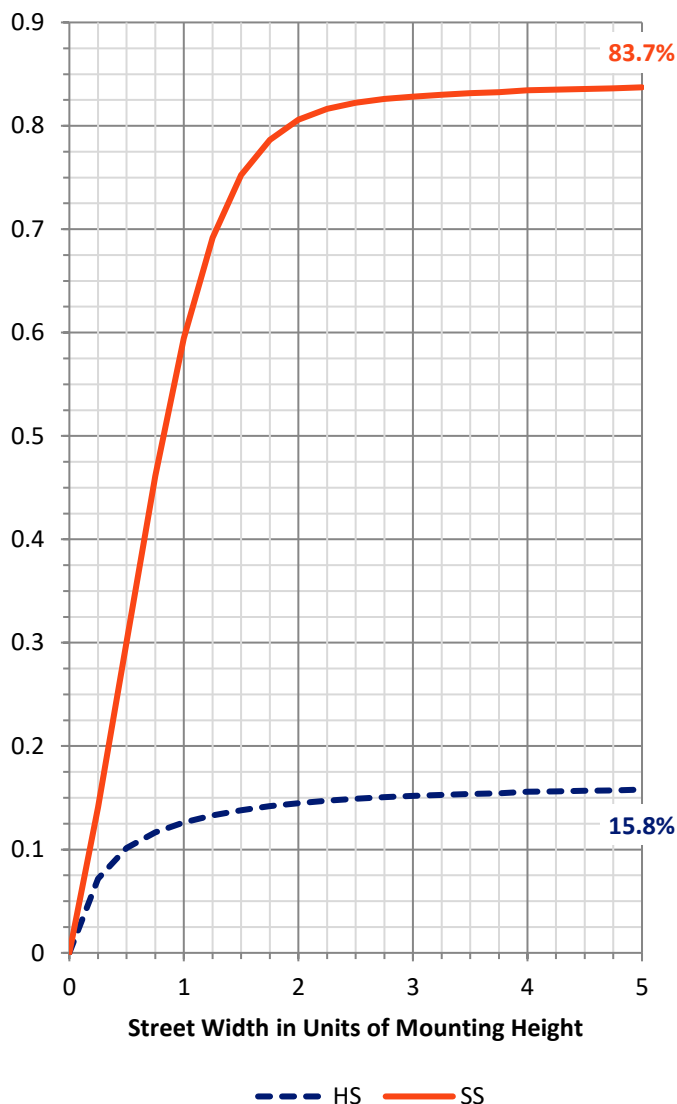
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	576.3	0.0	576.3
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	3016.7	0.0	3016.7
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	3593.0	0.0	3593.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	1.3
10°-20°	151.6	4.2
20°-30°	279.4	7.8
30°-40°	468.1	13.0
40°-50°	665.1	18.5
50°-60°	767.9	21.4
60°-70°	705.9	19.6
70°-80°	445.1	12.4
80°-90°	64.0	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°	3593.0	100.0
0°-180°	3593.0	100.0

**Coefficient of Utilization**

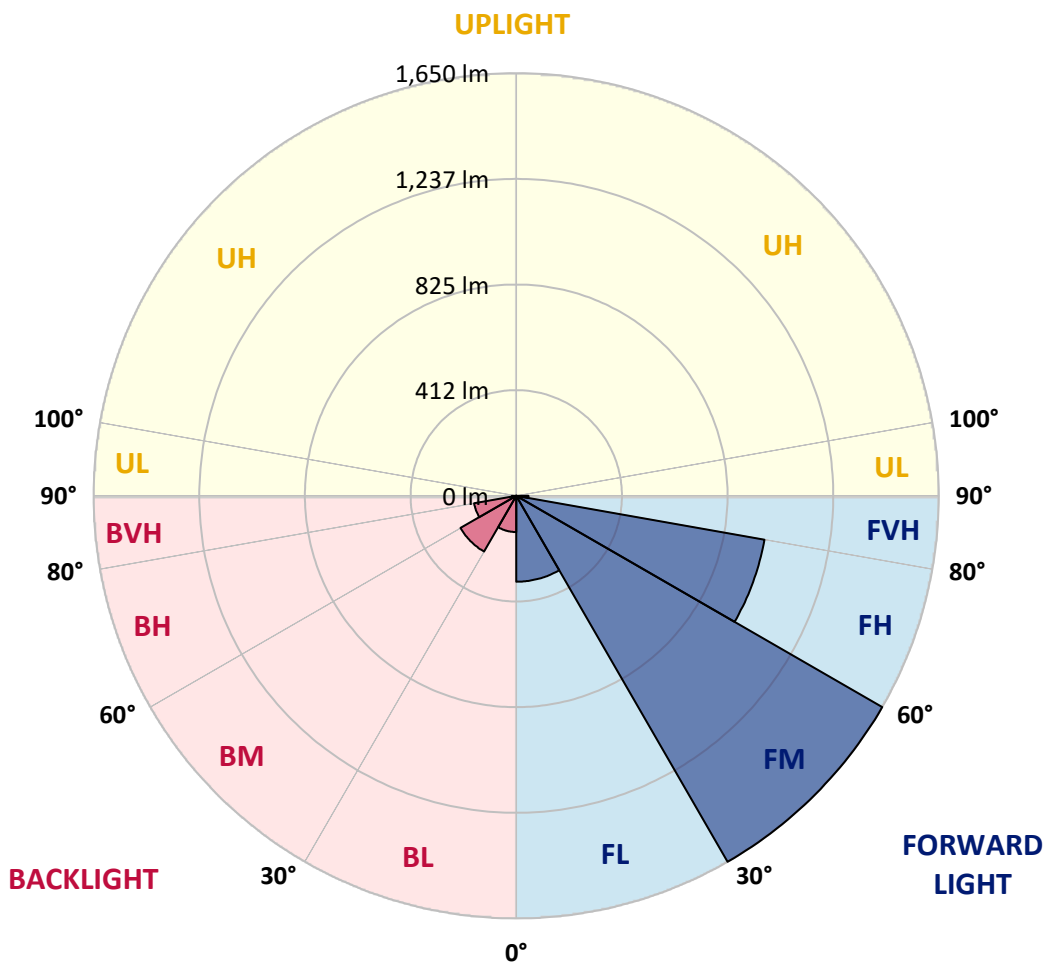


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.5	9.3			
FM (30°-60°)	1649.8	45.9			
FH (60°-80°)	984.0	27.4			G1/1800
FVH (80°-90°)	47.5	1.3			G1/100
BL (0°-30°)	141.5	3.9	B1/500		
BM (30°-60°)	251.2	7.0	B1/1000		
BH (60°-80°)	167.0	4.6	B1/500		G1/500
BVH (80°-90°)	16.6	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-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3
2.5°	567.3	566.5	563.9	559.6	556.1	545.7	531.9	519.8	501.6	499.9	481.7
5°	618.4	614.9	614.9	610.6	606.3	595.0	577.7	556.1	530.2	528.4	493.8
7.5°	642.6	643.5	641.7	638.3	639.1	629.6	614.0	592.4	557.0	555.2	510.3
10°	677.2	676.3	672.9	670.3	669.4	660.8	646.9	627.0	589.8	586.4	529.3
12.5°	710.9	708.3	709.2	708.3	706.6	697.9	685.0	665.1	619.2	617.5	552.6
15°	729.9	729.1	735.1	736.9	743.8	736.0	724.8	702.3	660.8	653.8	580.3
17.5°	742.0	741.2	747.2	761.1	774.0	774.0	770.6	746.4	700.5	695.3	611.5
20°	762.8	766.3	776.6	787.9	806.9	810.4	809.5	799.1	746.4	741.2	646.0
22.5°	804.3	802.6	811.2	828.5	845.8	851.0	851.9	851.9	799.1	789.6	681.5
25°	893.4	889.1	882.2	880.4	901.2	900.3	897.7	903.8	854.5	847.6	722.2
27.5°	1062.9	1053.4	1026.6	973.0	960.9	965.2	952.2	953.1	917.6	909.0	756.8
30°	1223.8	1219.5	1194.4	1129.5	1061.2	1037.0	1014.5	1005.0	987.7	973.0	793.9
32.5°	1369.1	1369.9	1339.7	1268.7	1198.7	1122.6	1083.7	1063.8	1070.7	1057.7	845.0
35°	1467.7	1459.9	1440.9	1393.3	1317.2	1244.5	1170.2	1126.0	1163.2	1148.5	896.0
37.5°	1525.6	1519.6	1504.0	1470.3	1432.2	1362.2	1267.9	1200.4	1273.1	1251.5	960.9
40°	1555.0	1546.4	1530.8	1517.0	1498.8	1460.7	1377.7	1285.2	1373.4	1354.4	1024.9
42.5°	1558.5	1552.4	1543.8	1536.9	1542.9	1537.7	1485.0	1383.8	1478.9	1458.2	1098.4
45°	1555.9	1560.2	1549.8	1537.7	1549.8	1593.9	1593.9	1482.4	1583.6	1568.0	1168.4
47.5°	1557.6	1553.3	1549.8	1546.4	1548.1	1608.6	1669.2	1574.9	1683.9	1665.7	1250.6
50°	1485.8	1491.9	1521.3	1534.3	1542.0	1612.1	1729.7	1675.2	1808.4	1785.9	1342.3
52.5°	1257.5	1261.0	1395.0	1491.9	1523.0	1598.3	1772.1	1786.8	1931.2	1913.9	1440.9
55°	968.6	986.8	1113.9	1350.9	1479.8	1574.9	1785.1	1859.4	2056.6	2042.8	1540.3
57.5°	797.4	800.0	873.5	1085.4	1343.1	1553.3	1798.0	1926.0	2169.1	2153.5	1644.1
60°	661.6	655.6	700.5	837.2	1115.7	1466.8	1800.6	1978.8	2299.7	2294.5	1751.3
62.5°	486.1	493.0	536.2	652.1	872.6	1291.2	1787.7	2023.8	2455.3	2448.4	1870.7
65°	298.4	307.0	359.8	466.2	660.8	1024.9	1702.9	2047.1	2618.8	2634.4	1999.6
67.5°	158.3	164.3	195.5	281.9	453.2	781.0	1498.8	2017.7	2757.2	2764.1	2123.2
70°	115.9	116.8	127.1	159.1	273.3	543.1	1193.5	1889.7	2841.9	2855.8	2163.9
72.5°	101.2	102.1	106.4	114.2	148.8	331.2	855.3	1666.6	2806.5	2794.4	2095.6
75°	91.7	91.7	95.1	97.7	109.0	183.4	524.1	1363.9	2535.8	2509.0	1786.8
77.5°	78.7	78.7	82.2	85.6	94.3	118.5	274.2	1011.0	1939.0	1893.2	1222.0
80°	63.1	63.1	67.5	71.8	83.0	89.1	134.1	676.3	1108.7	1041.3	556.1
82.5°	43.2	46.7	54.5	59.7	69.2	63.1	78.7	292.3	349.4	302.7	125.4
85°	25.9	27.7	38.9	45.0	51.9	33.7	48.4	112.4	104.6	91.7	28.5
87.5°	2.6	4.3	15.6	18.2	18.2	9.5	20.8	26.8	30.3	31.1	6.9
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°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3
2.5°	471.3	461.0	441.1	422.9	404.8	392.6	380.5	376.2	370.2	365.8	369.3
5°	475.7	454.1	416.0	384.0	362.4	345.9	338.2	333.8	330.4	329.5	328.6
7.5°	480.9	448.9	397.8	362.4	341.6	333.8	332.1	332.1	332.1	333.0	333.8
10°	492.1	450.6	388.3	350.3	339.0	337.3	338.2	341.6	341.6	342.5	342.5
12.5°	505.1	454.9	381.4	348.5	341.6	342.5	343.3	345.1	345.1	347.7	346.8
15°	524.1	463.6	380.5	350.3	344.2	342.5	342.5	341.6	341.6	341.6	343.3
17.5°	548.3	475.7	381.4	350.3	341.6	338.2	335.6	333.0	329.5	331.2	329.5
20°	572.5	490.4	381.4	345.9	334.7	326.1	318.3	313.9	309.6	308.8	309.6
22.5°	602.8	507.7	377.1	336.4	320.0	307.9	296.6	290.6	283.7	281.1	279.3
25°	628.8	521.5	368.4	322.6	303.6	286.3	271.6	261.2	252.5	250.8	250.8
27.5°	655.6	533.6	355.5	305.3	280.2	261.2	244.8	231.8	223.1	222.3	221.4
30°	680.6	544.0	338.2	286.3	259.5	237.0	217.9	206.7	198.9	194.6	192.0
32.5°	713.5	557.8	321.7	267.2	235.2	212.8	195.5	185.9	175.6	168.6	166.1
35°	755.0	574.3	303.6	246.5	213.6	191.1	180.8	166.9	153.9	146.2	143.6
37.5°	801.7	597.6	284.5	224.9	192.0	175.6	169.5	147.9	134.1	131.5	130.6
40°	859.7	620.1	262.9	202.4	171.2	166.9	156.5	134.1	127.1	126.3	125.4
42.5°	917.6	644.3	242.2	179.9	154.8	156.5	141.8	130.6	124.5	122.8	121.9
45°	985.1	668.5	221.4	160.0	141.8	141.8	134.1	127.1	121.9	120.2	120.2
47.5°	1056.0	692.8	198.9	142.7	132.3	127.1	128.0	122.8	119.4	117.6	116.8
50°	1145.1	716.1	178.2	130.6	126.3	119.4	121.9	118.5	116.8	115.0	114.2
52.5°	1229.0	726.5	159.1	123.7	122.8	115.9	116.8	115.0	114.2	111.6	110.7
55°	1311.1	723.9	144.4	120.2	118.5	115.0	113.3	112.4	111.6	109.0	108.1
57.5°	1402.8	720.4	134.9	119.4	115.9	112.4	112.4	109.8	106.4	106.4	106.4
60°	1497.9	709.2	130.6	119.4	115.0	112.4	110.7	108.1	104.6	105.5	104.6
62.5°	1605.2	687.6	128.0	121.9	115.9	111.6	109.8	106.4	102.1	102.9	102.1
65°	1699.4	643.5	126.3	124.5	117.6	112.4	108.1	103.8	98.6	99.5	98.6
67.5°	1763.4	569.1	121.1	126.3	120.2	111.6	106.4	100.3	93.4	96.9	96.0
70°	1745.3	462.7	111.6	122.8	122.8	112.4	103.8	96.0	88.2	95.1	92.5
72.5°	1604.3	347.7	93.4	110.7	121.1	112.4	98.6	89.1	82.2	86.5	81.3
75°	1317.2	236.1	74.4	88.2	113.3	113.3	94.3	82.2	73.5	70.9	69.2
77.5°	821.6	147.0	57.9	64.9	95.1	112.4	89.9	73.5	61.4	59.7	57.9
80°	325.2	78.7	45.8	46.7	70.1	102.9	83.9	62.3	49.3	47.6	44.1
82.5°	74.4	39.8	32.0	31.1	43.2	83.9	76.1	49.3	38.1	38.1	32.0
85°	22.5	20.8	20.8	19.9	21.6	43.2	58.8	33.7	25.9	18.2	15.6
87.5°	6.1	8.6	7.8	6.9	6.9	6.1	19.0	8.6	5.2	2.6	1.7
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)