

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: P594211

Luminaire Tested: **ISC-PA1D-730-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594211  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1D-730-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5708 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

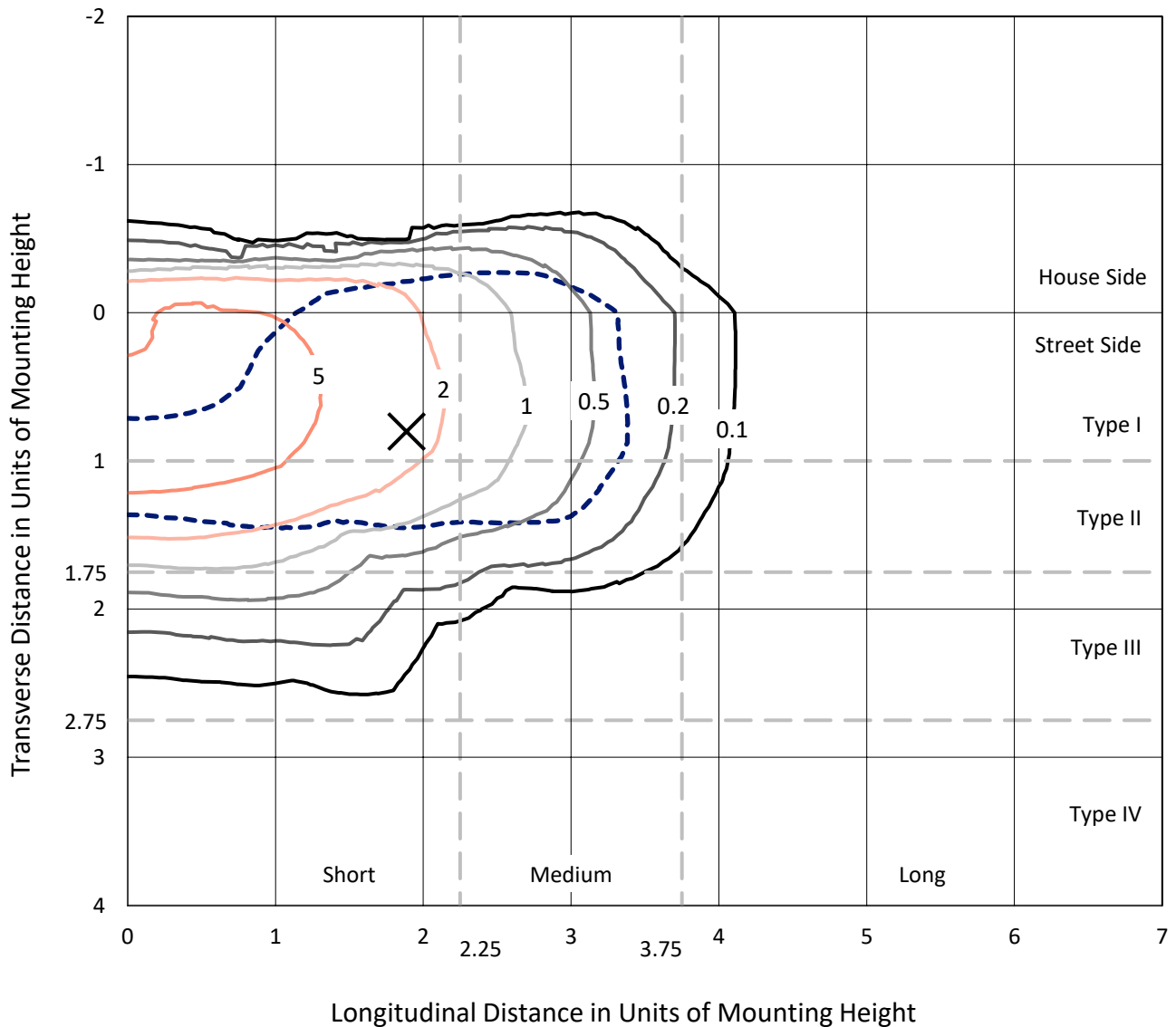
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594211  
 CATALOG NUMBER: ISC-PA1D-730-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

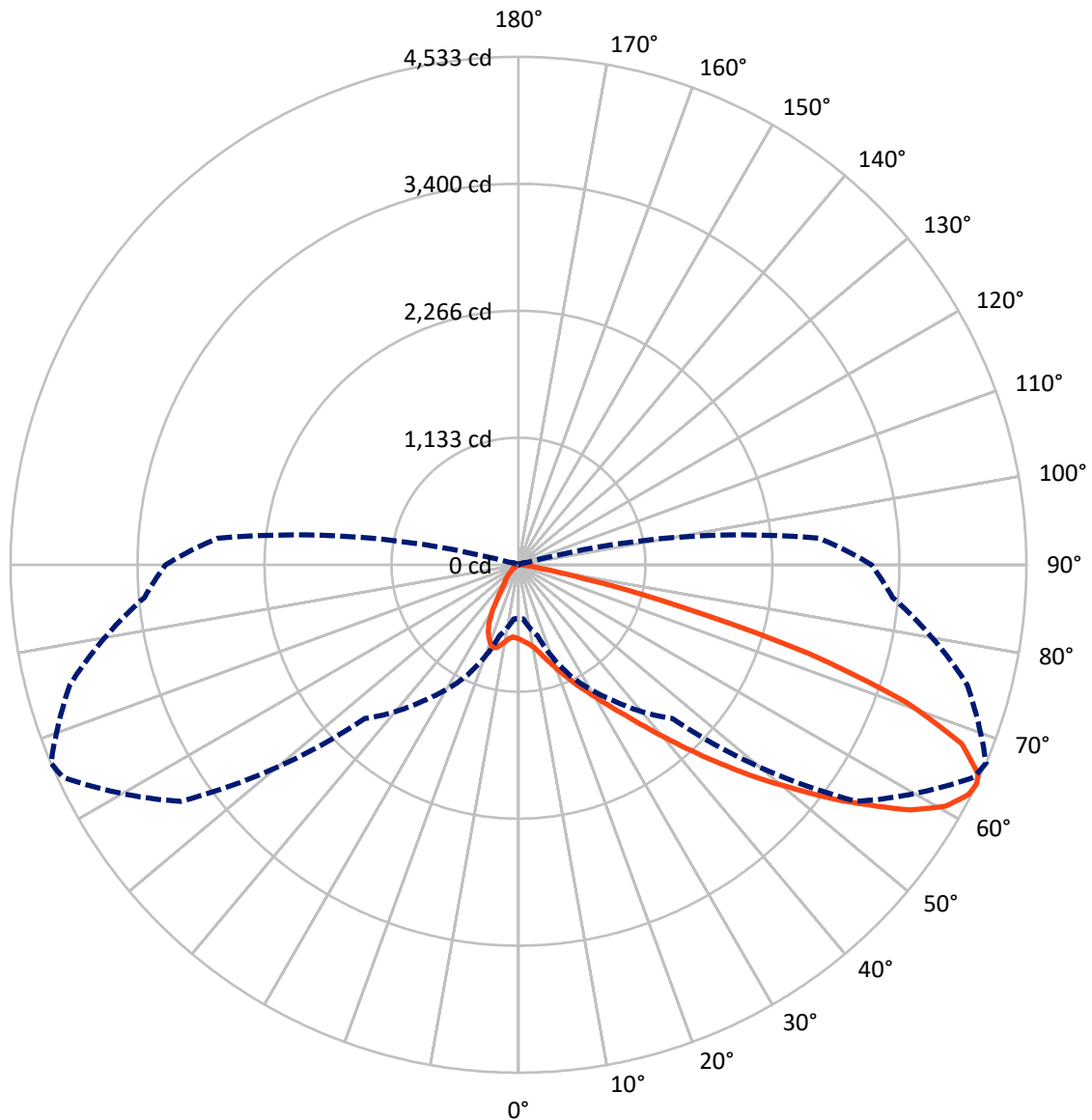
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P594211  
CATALOG NUMBER: ISC-PA1D-730-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P594211  
 CATALOG NUMBER: ISC-PA1D-730-U-T2U-HSS

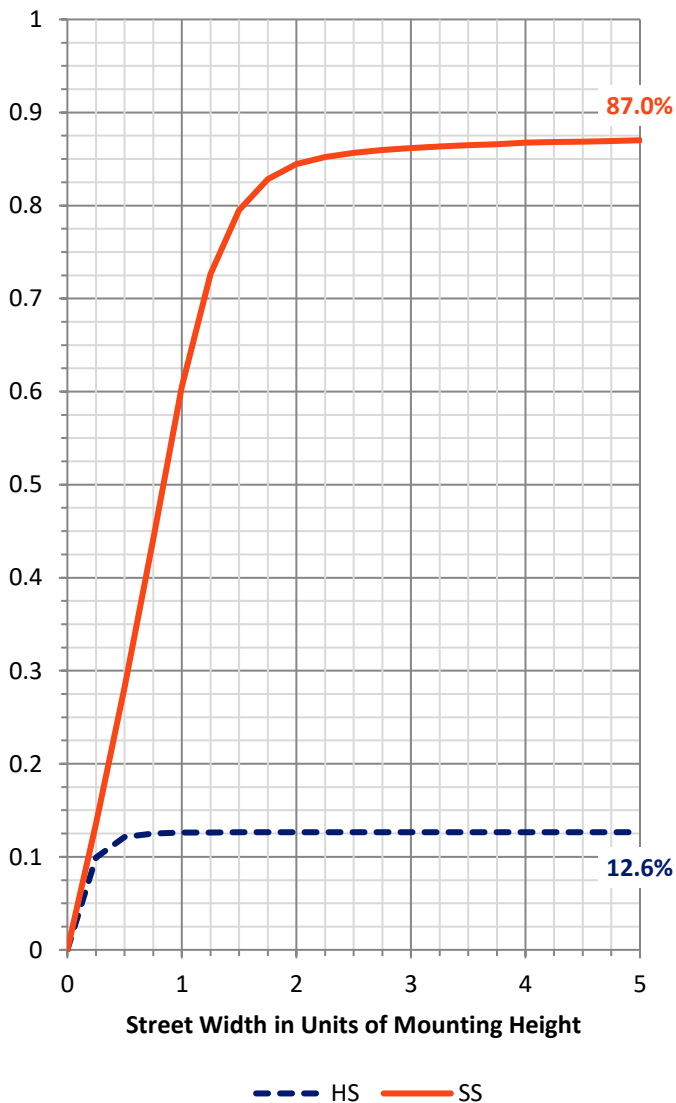
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	730.2	0.0	730.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4977.8	0.0	4977.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5708.0	0.0	5708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	1.1
10°-20°	185.7	3.3
20°-30°	336.9	5.9
30°-40°	645.4	11.3
40°-50°	1189.6	20.8
50°-60°	1536.5	26.9
60°-70°	1258.5	22.0
70°-80°	462.6	8.1
80°-90°	29.8	0.5
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°	5708.0	100.0
0°-180°	5708.0	100.0

**Coefficient of Utilization**

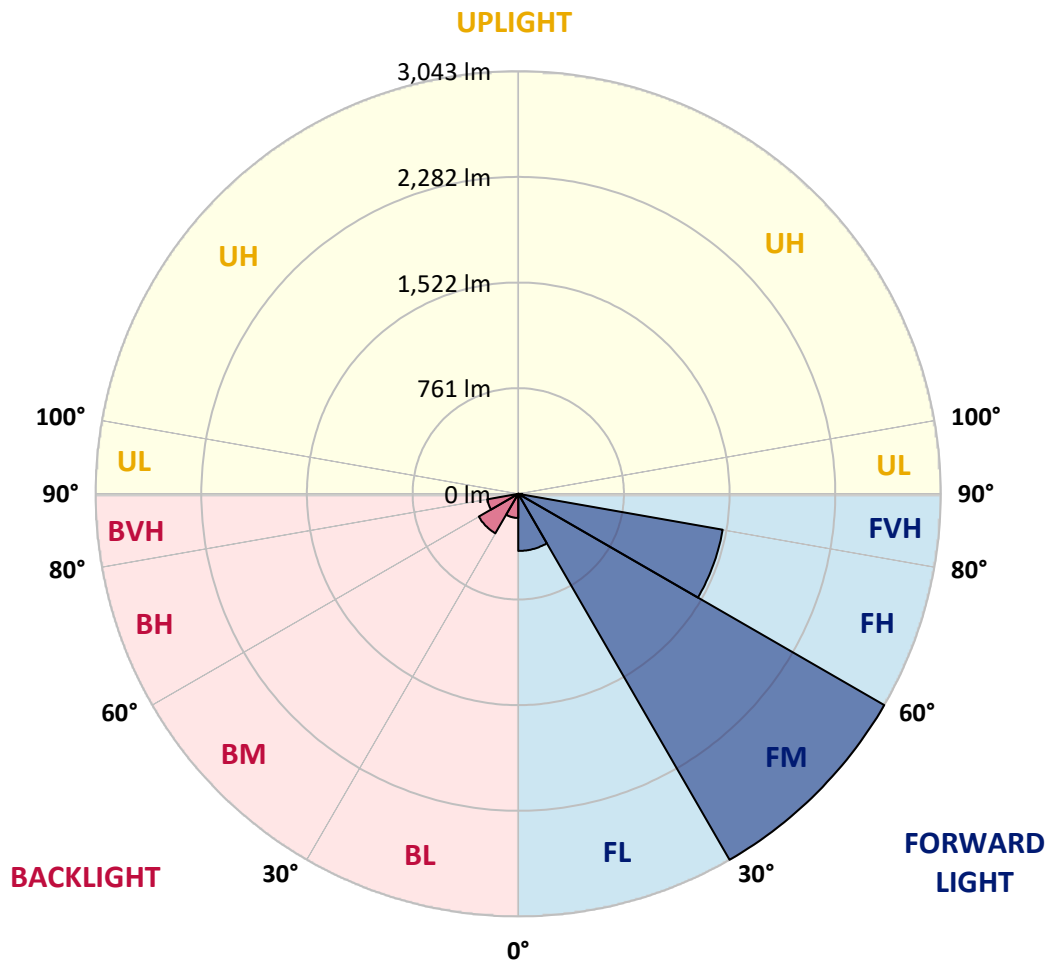


REPORT NUMBER: P594211  
 CATALOG NUMBER: ISC-PA1D-730-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.5	7.2			
FM (30°-60°)	3043.2	53.3			
FH (60°-80°)	1494.6	26.2			G1/1800
FVH (80°-90°)	28.5	0.5			G1/100
BL (0°-30°)	174.0	3.0	B1/500		
BM (30°-60°)	328.3	5.8	B1/1000		
BH (60°-80°)	226.5	4.0	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
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 Short





REPORT NUMBER: P594211  
 CATALOG NUMBER: ISC-PA1D-730-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2
2.5°	686.8	686.8	690.7	688.8	688.8	684.8	678.9	680.9	678.9	677.0	671.1
5°	675.0	677.0	678.9	682.9	690.7	694.6	694.6	696.6	696.6	694.6	686.8
7.5°	669.1	673.1	677.0	680.9	690.7	696.6	706.4	718.2	718.2	720.1	712.3
10°	690.7	694.6	700.5	706.4	716.2	726.0	733.9	747.6	747.6	751.5	749.6
12.5°	735.8	735.8	737.8	741.7	755.5	767.2	781.0	792.8	794.7	796.7	790.8
15°	790.8	790.8	792.8	792.8	800.6	818.3	843.8	855.5	853.6	851.6	839.8
17.5°	853.6	853.6	853.6	855.5	859.5	869.3	898.7	922.3	920.3	918.3	894.8
20°	912.4	916.4	920.3	922.3	926.2	934.0	965.4	992.9	998.8	990.9	949.7
22.5°	979.2	981.1	983.1	989.0	998.8	1002.7	1034.1	1075.3	1081.2	1071.4	1016.4
25°	1045.9	1049.8	1055.7	1063.5	1073.4	1093.0	1114.6	1169.5	1175.4	1163.6	1089.1
27.5°	1193.0	1191.1	1173.4	1159.7	1161.7	1175.4	1204.8	1263.7	1269.6	1257.8	1161.7
30°	1444.2	1420.7	1387.3	1326.5	1267.6	1273.5	1314.7	1371.6	1381.4	1365.7	1242.1
32.5°	1801.3	1777.8	1695.4	1562.0	1432.4	1389.3	1442.3	1497.2	1509.0	1491.3	1336.3
35°	2148.7	2142.8	2064.3	1903.4	1683.6	1563.9	1577.7	1648.3	1652.2	1630.6	1454.0
37.5°	2578.4	2556.8	2448.9	2268.4	2009.3	1795.5	1756.2	1822.9	1832.7	1807.2	1597.3
40°	2862.9	2855.1	2790.3	2662.8	2384.1	2115.3	1974.0	2038.8	2036.8	1999.5	1762.1
42.5°	3027.8	3031.7	3027.8	2966.9	2808.0	2499.9	2262.5	2266.4	2272.3	2233.0	1952.4
45°	3139.6	3139.6	3145.5	3194.5	3133.7	2959.1	2613.7	2525.4	2533.3	2472.4	2150.6
47.5°	3137.6	3149.4	3180.8	3294.6	3377.0	3386.8	3053.3	2827.6	2823.7	2731.5	2354.7
50°	2925.7	2917.9	3047.4	3302.5	3549.7	3740.1	3469.3	3147.5	3114.1	3000.3	2566.6
52.5°	2448.9	2474.4	2690.2	3065.0	3590.9	3979.4	3828.4	3496.7	3453.6	3267.2	2753.0
55°	2032.9	2060.4	2270.3	2637.3	3367.2	4063.8	4069.7	3867.6	3781.3	3498.7	2945.3
57.5°	1526.6	1579.6	1889.6	2235.0	2876.7	3853.9	4156.1	4222.8	4128.6	3722.4	3102.3
60°	975.2	1006.6	1354.0	1779.8	2331.2	3304.4	4138.4	4428.8	4377.8	3926.5	3233.8
62.5°	637.7	655.4	894.8	1340.2	1775.8	2490.1	3928.4	4511.2	4511.2	4063.8	3331.9
64°	480.8	484.7	655.4	1089.1	1481.5	1940.7	3681.2	4485.7	4532.8	4146.2	3351.5
65°	380.7	382.6	512.1	904.6	1330.4	1591.4	3465.3	4430.8	4507.3	4177.6	3363.3
67.5°	266.9	272.8	331.6	522.0	953.7	918.3	2568.6	4171.7	4265.9	4187.4	3347.6
70°	231.5	239.4	278.6	341.4	680.9	533.7	1365.7	3555.6	3667.5	3901.0	3116.1
72.5°	176.6	186.4	233.5	288.5	478.8	361.1	527.8	2525.4	2702.0	3016.0	2572.5
75°	127.5	131.5	172.7	235.5	335.5	278.6	227.6	1302.9	1481.5	1779.8	1599.2
77.5°	80.5	86.3	117.7	176.6	300.2	211.9	135.4	474.9	598.5	775.1	698.6
80°	47.1	49.1	70.6	121.7	202.1	157.0	86.3	168.8	204.1	288.5	186.4
82.5°	27.5	29.4	45.1	82.4	131.5	121.7	54.9	86.3	96.2	109.9	39.2
85°	9.8	9.8	31.4	49.1	70.6	60.8	31.4	45.1	49.1	60.8	11.8
87.5°	2.0	2.0	15.7	25.5	25.5	9.8	15.7	19.6	23.5	33.4	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594211  
 CATALOG NUMBER: ISC-PA1D-730-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2	663.2
2.5°	669.1	663.2	657.4	649.5	643.6	631.8	626.0	618.1	616.1	612.2	610.3
5°	684.8	675.0	661.3	641.7	629.9	612.2	600.4	588.7	586.7	582.8	580.8
7.5°	706.4	696.6	678.9	657.4	637.7	620.1	606.3	588.7	571.0	557.3	557.3
10°	741.7	730.0	706.4	686.8	663.2	626.0	561.2	502.3	465.1	441.5	433.7
12.5°	784.9	769.2	743.7	720.1	675.0	557.3	457.2	380.7	317.9	288.5	282.6
15°	830.0	816.3	790.8	755.5	620.1	465.1	333.6	215.8	155.0	127.5	131.5
17.5°	879.1	859.5	830.0	759.4	545.5	347.3	178.6	109.9	94.2	90.3	90.3
20°	930.1	904.6	875.2	716.2	449.4	200.1	102.0	82.4	76.5	70.6	72.6
22.5°	985.1	953.7	908.5	651.5	321.8	107.9	78.5	66.7	58.9	56.9	56.9
25°	1043.9	998.8	941.9	576.9	186.4	82.4	64.8	53.0	47.1	45.1	43.2
27.5°	1106.7	1049.8	949.7	478.8	106.0	68.7	51.0	41.2	35.3	33.4	33.4
30°	1163.6	1100.8	932.1	355.2	80.5	56.9	41.2	31.4	27.5	27.5	27.5
32.5°	1240.1	1157.7	877.1	221.7	64.8	45.1	31.4	25.5	21.6	21.6	21.6
35°	1340.2	1242.1	822.2	117.7	53.0	37.3	25.5	19.6	17.7	17.7	17.7
37.5°	1477.6	1354.0	773.1	74.6	43.2	29.4	19.6	15.7	13.7	13.7	13.7
40°	1618.9	1487.4	704.4	56.9	35.3	23.5	15.7	11.8	9.8	9.8	11.8
42.5°	1795.5	1642.4	626.0	49.1	29.4	19.6	11.8	7.8	5.9	7.8	7.8
45°	1974.0	1805.3	516.1	41.2	25.5	15.7	7.8	3.9	3.9	5.9	5.9
47.5°	2158.5	1978.0	400.3	35.3	21.6	11.8	5.9	2.0	2.0	3.9	3.9
50°	2348.8	2148.7	298.3	31.4	17.7	9.8	3.9	2.0	0.0	2.0	2.0
52.5°	2539.2	2313.5	231.5	27.5	15.7	7.8	2.0	0.0	0.0	0.0	2.0
55°	2715.8	2462.6	184.5	23.5	13.7	5.9	2.0	0.0	0.0	0.0	0.0
57.5°	2864.9	2572.5	147.2	21.6	11.8	3.9	2.0	0.0	0.0	0.0	0.0
60°	3006.2	2658.9	113.8	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0
62.5°	3106.2	2692.2	92.2	15.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
64°	3149.4	2696.1	80.5	13.7	7.8	3.9	2.0	0.0	0.0	0.0	0.0
65°	3174.9	2684.4	74.6	13.7	7.8	3.9	2.0	0.0	0.0	0.0	0.0
67.5°	3180.8	2619.6	56.9	11.8	5.9	2.0	2.0	0.0	0.0	0.0	0.0
70°	3008.1	2393.9	41.2	7.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	2513.6	1828.8	27.5	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
75°	1569.8	790.8	15.7	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	649.5	239.4	9.8	3.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	149.1	56.9	3.9	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.3	9.8	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
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)