

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: P594140

Luminaire Tested: **ISC-PA1C-735-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594140  
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-735-U-T2U  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 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: 6447 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

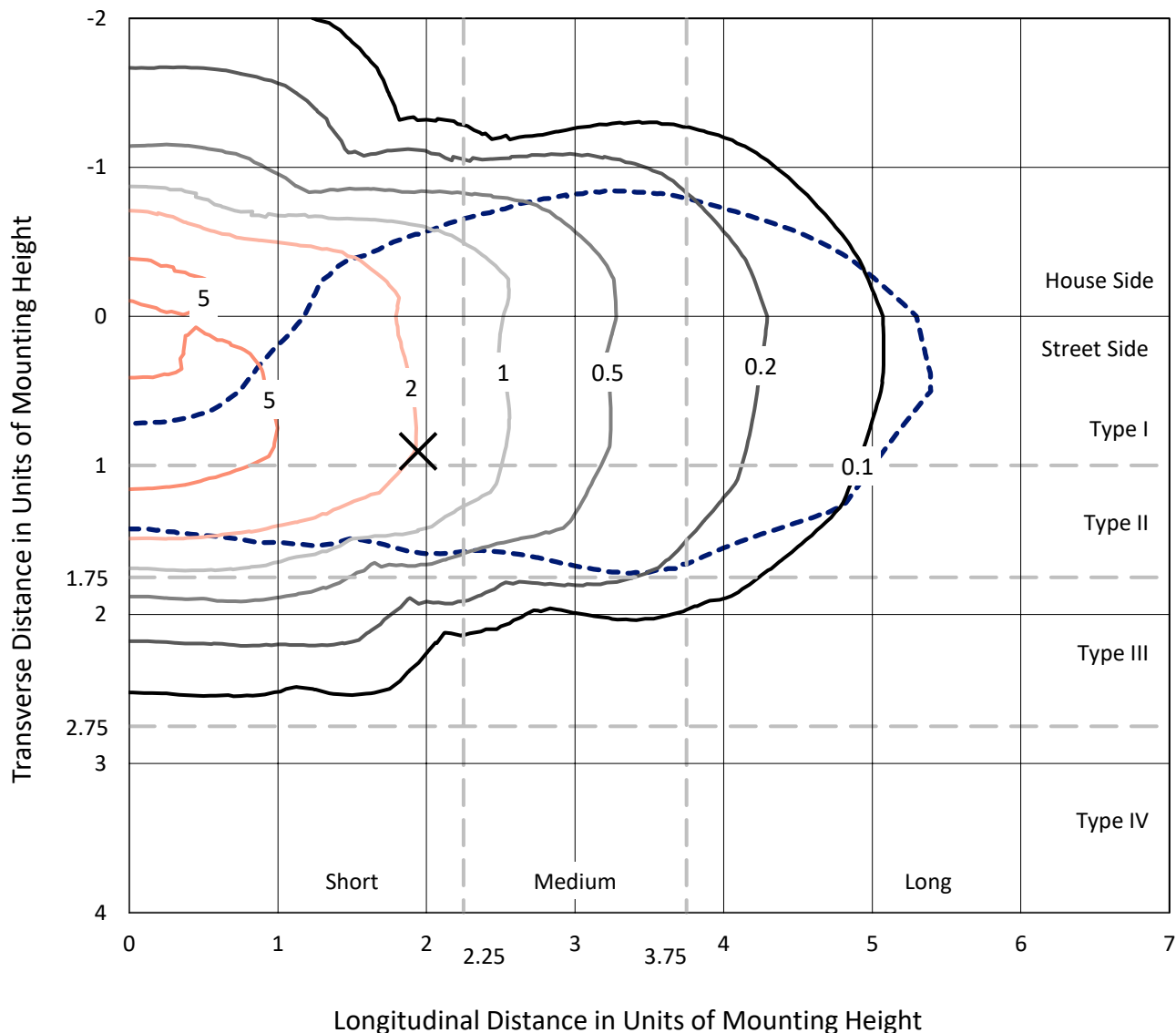
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

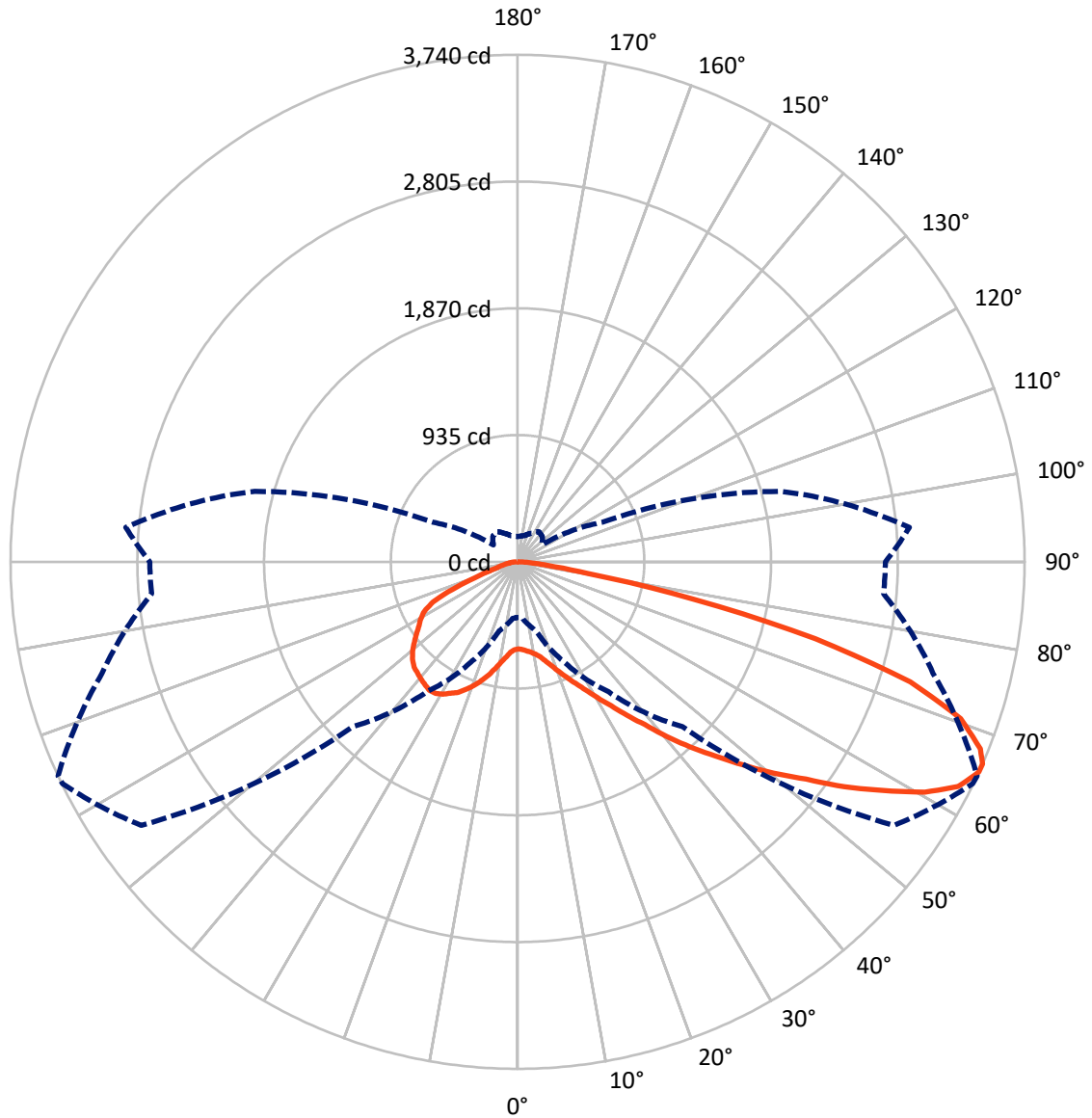
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 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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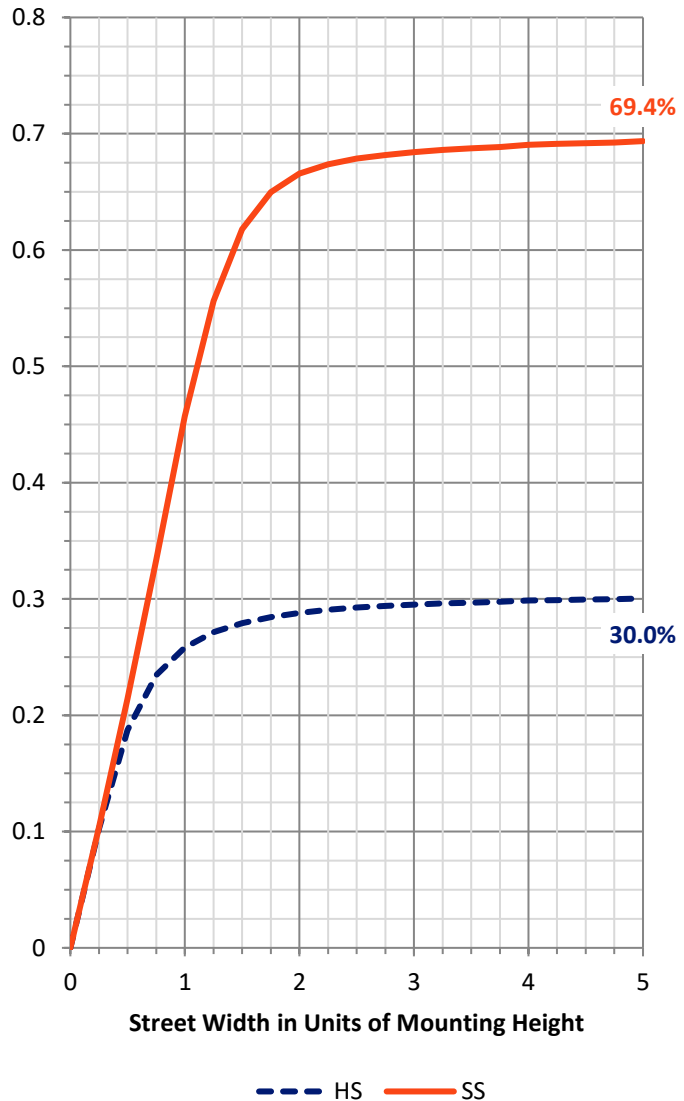
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1957.6	0.0	1957.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	4489.4	0.0	4489.4
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	6447.0	0.0	6447.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	1.0
10°-20°	228.5	3.5
20°-30°	447.5	6.9
30°-40°	731.2	11.3
40°-50°	1160.6	18.0
50°-60°	1492.7	23.2
60°-70°	1346.1	20.9
70°-80°	834.9	13.0
80°-90°	139.9	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°	6447.0	100.0
0°-180°	6447.0	100.0

**Coefficient of Utilization**



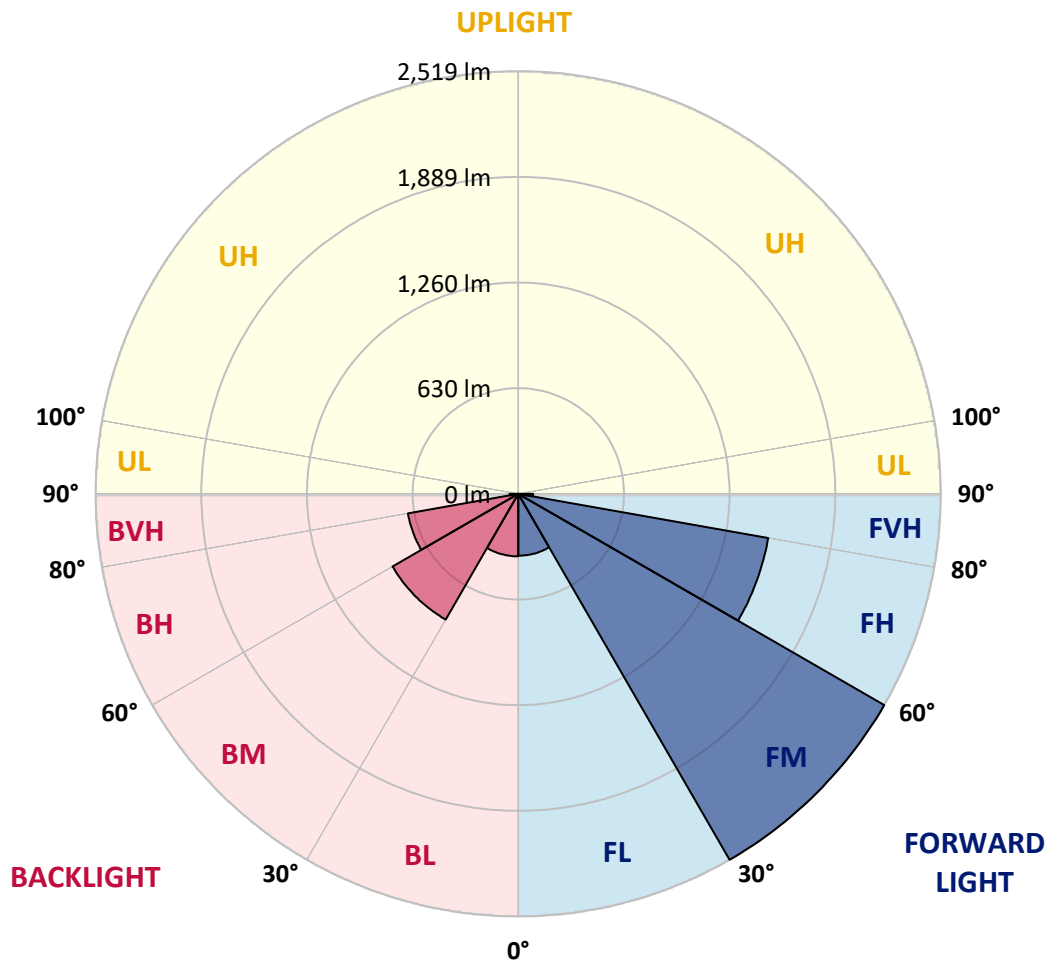
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.7	5.7			
FM (30°-60°)	2519.1	39.1			
FH (60°-80°)	1513.1	23.5			G1/1800
FVH (80°-90°)	88.5	1.4			G1/100
BL (0°-30°)	372.8	5.8	B1/500		
BM (30°-60°)	865.4	13.4	B1/1000		
BH (60°-80°)	667.9	10.4	B2/1000		G2/1000
BVH (80°-90°)	51.4	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°	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
2.5°	644.2	645.7	647.3	644.2	647.3	648.9	645.7	645.7	647.3	644.2	644.2
5°	639.5	641.0	644.2	645.7	652.0	655.1	656.7	656.7	658.2	656.7	658.2
7.5°	627.0	627.0	633.2	636.4	645.7	656.7	662.9	672.3	672.3	673.9	678.6
10°	639.5	639.5	644.2	648.9	656.7	666.1	675.4	686.4	689.5	700.5	706.7
12.5°	658.2	661.4	667.6	673.9	683.3	694.2	702.0	713.0	714.5	725.5	738.0
15°	689.5	692.6	695.8	703.6	716.1	730.2	744.2	752.1	755.2	761.4	770.8
17.5°	736.4	739.6	741.1	745.8	755.2	773.9	794.3	800.5	803.7	803.7	811.5
20°	816.2	814.6	811.5	802.1	802.1	819.3	847.4	858.4	861.5	855.3	850.6
22.5°	908.4	906.8	894.3	883.4	875.6	878.7	906.8	925.6	924.0	911.5	892.8
25°	1028.8	1031.9	1011.6	983.5	960.0	953.8	971.0	989.7	992.8	969.4	938.1
27.5°	1172.7	1168.0	1157.0	1111.7	1066.3	1038.2	1047.6	1067.9	1069.5	1044.4	994.4
30°	1341.5	1333.7	1305.6	1258.6	1188.3	1149.2	1141.4	1158.6	1163.3	1121.1	1049.1
32.5°	1529.1	1521.3	1485.4	1413.4	1336.8	1271.2	1246.1	1269.6	1266.5	1218.0	1117.9
35°	1755.8	1754.3	1688.6	1599.5	1502.6	1415.0	1380.6	1380.6	1390.0	1318.1	1205.5
37.5°	2059.2	2071.7	1974.7	1835.6	1699.6	1582.3	1524.4	1521.3	1522.9	1444.7	1304.0
40°	2332.8	2328.1	2271.8	2142.0	1943.5	1793.4	1707.4	1688.6	1693.3	1593.2	1432.2
42.5°	2490.7	2495.4	2481.3	2425.0	2251.5	2062.3	1915.3	1865.3	1866.9	1741.8	1554.2
45°	2589.2	2593.9	2592.3	2620.5	2551.7	2373.4	2163.9	2048.2	2042.0	1910.6	1698.0
47.5°	2645.5	2648.6	2669.0	2726.8	2783.1	2742.4	2439.1	2251.5	2239.0	2068.6	1841.8
50°	2583.0	2584.5	2665.8	2803.4	2941.0	3064.5	2720.5	2453.2	2450.1	2243.7	1982.6
52.5°	2254.6	2282.8	2462.6	2750.3	3058.3	3292.8	3045.8	2690.8	2664.3	2409.4	2123.3
55°	1840.3	1852.8	2059.2	2425.0	3036.4	3433.5	3291.2	2947.3	2928.5	2593.9	2260.9
57.5°	1436.9	1449.4	1694.9	1999.8	2701.8	3425.7	3464.8	3224.0	3181.8	2754.9	2398.5
60°	927.2	966.3	1250.8	1626.1	2187.4	3188.0	3552.3	3489.8	3450.7	2914.4	2515.7
62.5°	630.1	636.4	814.6	1205.5	1637.0	2590.8	3546.1	3654.0	3647.7	3073.9	2633.0
65°	409.6	419.0	526.9	816.2	1171.1	1719.9	3389.7	3733.7	3740.0	3172.4	2709.6
66°	347.1	353.4	436.2	686.4	1025.7	1363.4	3252.2	3727.5	3740.0	3217.8	2733.1
67.5°	301.8	306.5	348.7	506.6	838.1	980.3	2894.1	3644.6	3680.6	3260.0	2762.8
70°	259.5	265.8	304.9	345.5	598.8	572.3	1832.5	3432.0	3467.9	3280.3	2781.5
72.5°	214.2	218.9	258.0	312.7	434.7	384.6	808.3	2937.9	3028.6	3205.2	2751.8
75°	168.9	172.0	208.0	261.1	333.0	300.2	351.8	2154.5	2268.7	2825.3	2636.1
77.5°	131.3	132.9	161.0	203.3	304.9	233.0	217.3	1049.1	1327.4	2182.7	2321.8
80°	90.7	93.8	118.8	153.2	223.6	184.5	145.4	409.6	520.7	1449.4	1760.5
82.5°	59.4	61.0	81.3	115.7	148.5	176.7	95.4	198.6	218.9	667.6	763.0
85°	40.7	40.7	57.9	71.9	101.6	117.3	62.5	104.8	114.1	253.3	92.2
87.5°	20.3	20.3	28.1	37.5	48.5	45.3	37.5	37.5	37.5	82.9	26.6
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°	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6	642.6
2.5°	645.7	645.7	647.3	648.9	650.4	650.4	652.0	652.0	650.4	652.0	653.6
5°	659.8	661.4	664.5	669.2	677.0	684.8	692.6	697.3	702.0	703.6	700.5
7.5°	681.7	684.8	695.8	708.3	720.8	739.6	750.5	756.8	759.9	763.0	759.9
10°	709.8	716.1	731.7	753.6	775.5	799.0	811.5	820.9	822.4	825.5	822.4
12.5°	742.7	753.6	777.1	808.3	834.9	858.4	867.8	861.5	847.4	841.2	839.6
15°	781.8	792.7	825.5	864.6	895.9	906.8	892.8	872.5	856.8	855.3	853.7
17.5°	816.2	831.8	877.1	917.8	947.5	936.6	899.0	886.5	881.8	888.1	886.5
20°	859.9	872.5	917.8	967.8	983.5	941.2	914.7	906.8	902.2	902.2	899.0
22.5°	895.9	905.3	960.0	1014.7	1005.4	944.4	925.6	910.0	894.3	892.8	888.1
25°	938.1	941.2	999.1	1058.5	1008.5	947.5	914.7	888.1	872.5	867.8	869.3
27.5°	977.2	985.0	1035.1	1088.2	1000.7	930.3	877.1	842.7	819.3	817.7	817.7
30°	1027.2	1027.2	1072.6	1121.1	983.5	886.5	816.2	766.1	747.4	745.8	742.7
32.5°	1083.5	1074.1	1117.9	1144.5	945.9	827.1	733.3	677.0	647.3	641.0	636.4
35°	1161.7	1141.4	1172.7	1149.2	908.4	742.7	628.5	564.4	542.5	533.2	533.2
37.5°	1252.4	1222.7	1255.5	1135.1	850.6	644.2	519.1	470.6	447.2	433.1	437.8
40°	1358.7	1321.2	1339.9	1119.5	788.0	534.7	428.4	398.7	370.6	351.8	351.8
42.5°	1483.8	1421.3	1435.3	1103.9	698.9	439.4	370.6	350.2	328.3	309.6	314.3
45°	1604.2	1543.2	1529.1	1088.2	605.1	375.2	347.1	333.0	312.7	290.8	290.8
47.5°	1743.3	1665.2	1612.0	1060.1	512.8	354.9	353.4	333.0	293.9	262.7	259.5
50°	1874.7	1802.8	1687.1	1017.9	461.2	372.1	351.8	303.3	265.8	245.5	243.9
52.5°	2013.8	1938.8	1748.0	966.3	434.7	364.3	323.7	278.3	250.2	229.8	225.1
55°	2151.4	2112.3	1802.8	916.2	392.4	339.3	300.2	262.7	233.0	214.2	211.1
57.5°	2307.8	2292.1	1849.7	866.2	326.8	308.0	283.0	251.7	223.6	209.5	208.0
60°	2443.8	2498.5	1905.9	828.7	278.3	284.6	275.2	250.2	229.8	214.2	214.2
62.5°	2587.6	2697.1	1956.0	780.2	242.3	270.5	276.7	248.6	222.0	208.0	208.0
65°	2712.7	2900.4	2007.6	691.1	217.3	259.5	272.1	231.4	200.1	189.2	186.1
66°	2765.9	2958.2	2023.2	636.4	208.0	251.7	264.2	222.0	190.8	181.4	179.8
67.5°	2828.4	3048.9	2042.0	519.1	193.9	234.5	247.0	208.0	175.1	168.9	165.7
70°	2916.0	3067.7	2031.0	339.3	168.9	201.7	220.5	186.1	156.4	151.7	147.0
72.5°	2925.4	2939.4	1921.6	214.2	147.0	173.6	193.9	167.3	137.6	132.9	129.8
75°	2770.6	2604.8	1626.1	153.2	129.8	153.2	170.4	145.4	114.1	107.9	104.8
77.5°	2365.6	2067.0	1169.5	114.1	112.6	131.3	142.3	126.6	95.4	90.7	89.1
80°	1660.5	1402.5	586.3	86.0	89.1	109.4	118.8	106.3	79.7	73.5	70.4
82.5°	672.3	595.7	201.7	64.1	67.2	82.9	101.6	87.6	61.0	53.2	46.9
85°	76.6	129.8	87.6	43.8	45.3	56.3	68.8	53.2	36.0	29.7	25.0
87.5°	15.6	28.1	31.3	17.2	15.6	21.9	31.3	18.8	12.5	4.7	6.3
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)