

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: P594643

Luminaire Tested: **ISS-PA1C-740-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594643
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: ISS-PA1C-740-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 5031 lumens
Efficiency: N/A
Efficacy: 102.9 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

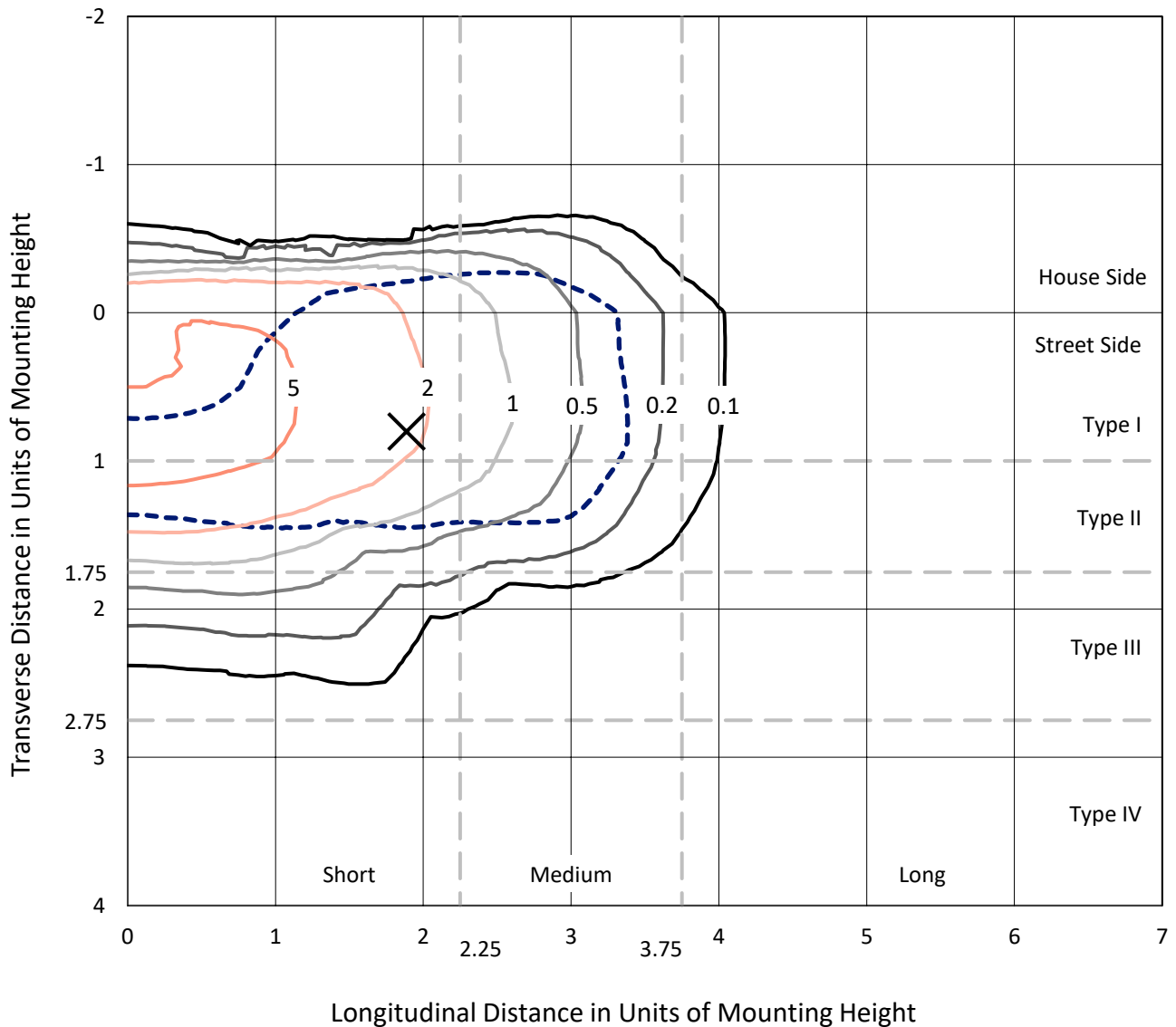
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

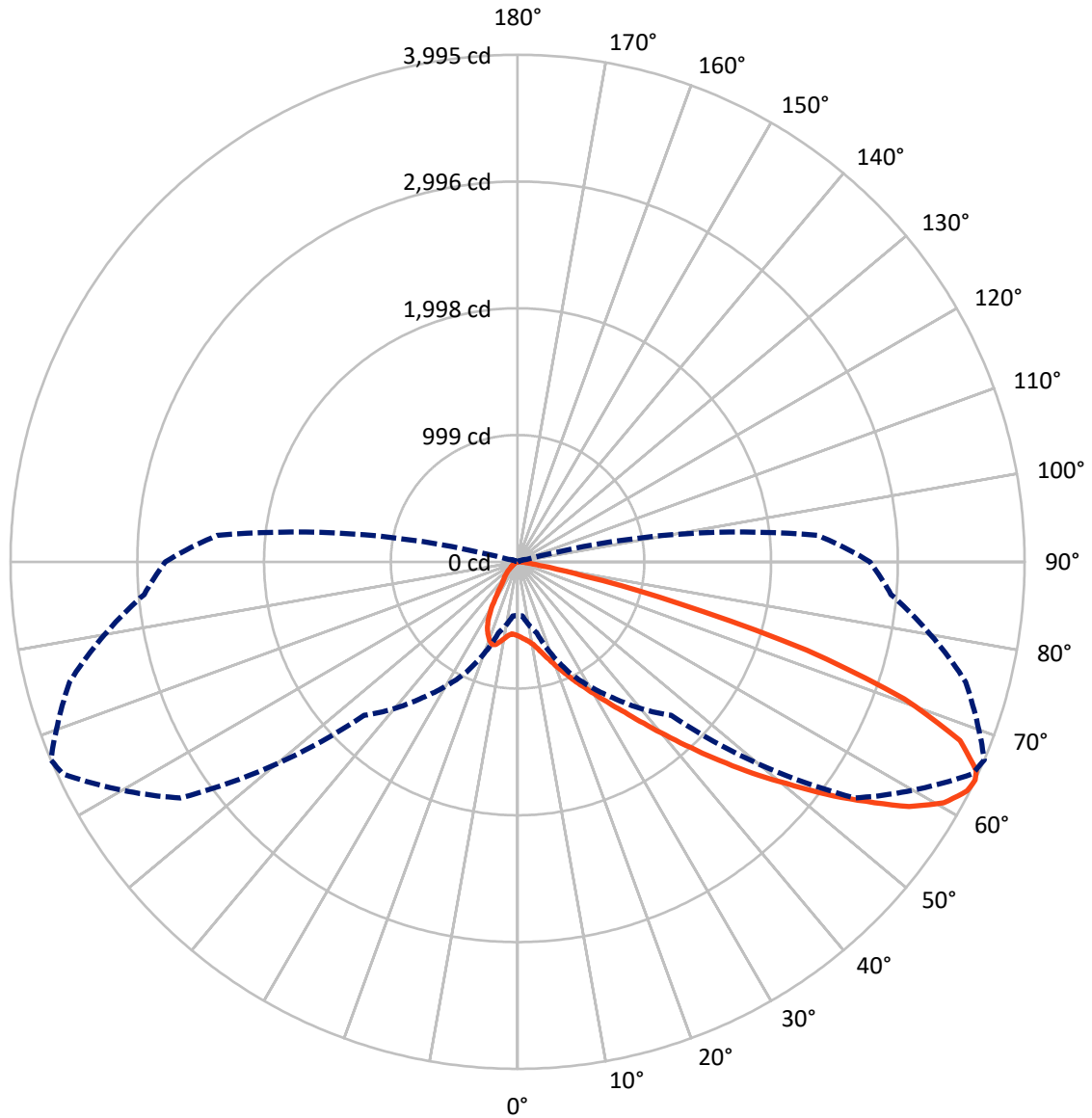
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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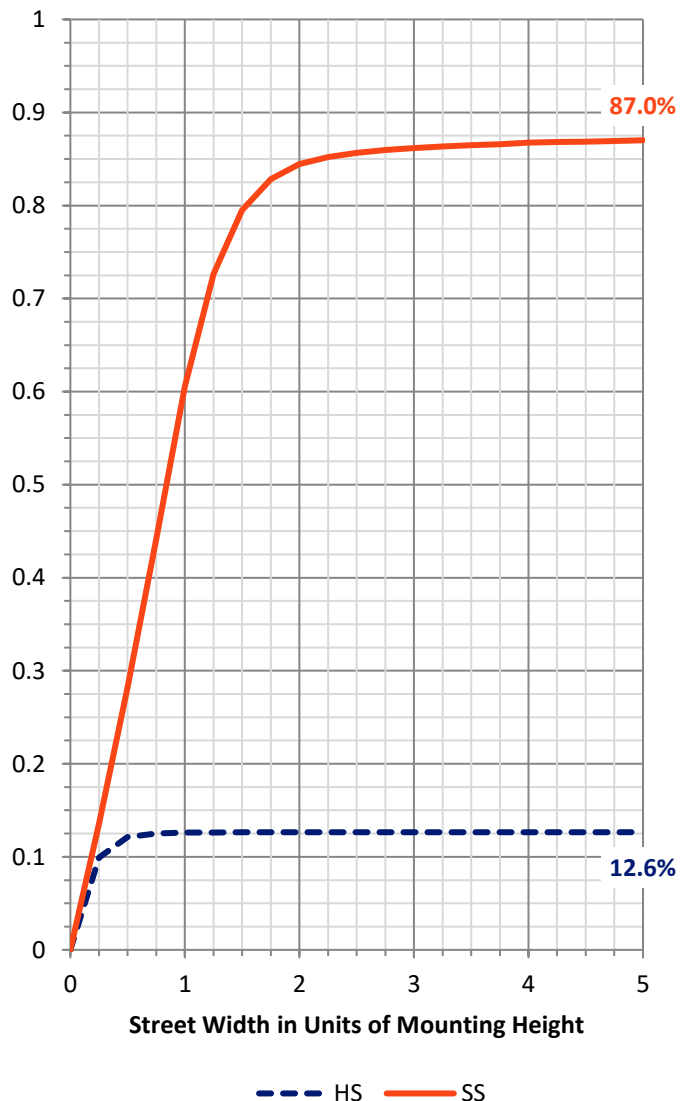
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	643.6	0.0	643.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4387.4	0.0	4387.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	5031.0	0.0	5031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	1.1
10°-20°	163.7	3.3
20°-30°	297.0	5.9
30°-40°	568.9	11.3
40°-50°	1048.5	20.8
50°-60°	1354.2	26.9
60°-70°	1109.2	22.0
70°-80°	407.8	8.1
80°-90°	26.3	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°	5031.0	100.0
0°-180°	5031.0	100.0

Coefficient of Utilization



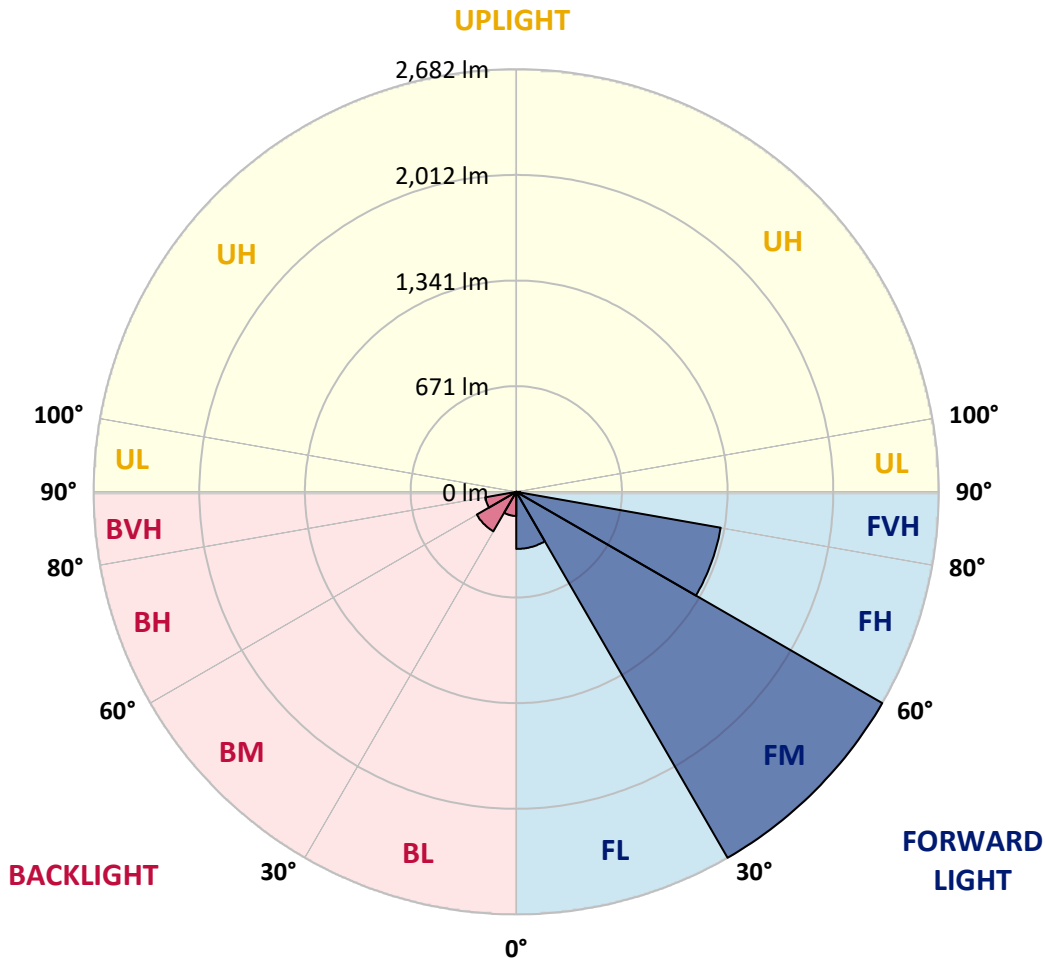
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.7	7.2			
FM (30°-60°)	2682.2	53.3			
FH (60°-80°)	1317.3	26.2			G1/1800
FVH (80°-90°)	25.1	0.5			G1/100
BL (0°-30°)	153.4	3.0	B1/500		
BM (30°-60°)	289.4	5.8	B1/1000		
BH (60°-80°)	199.7	4.0	B1/500		G1/500
BVH (80°-90°)	1.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6
2.5°	605.3	605.3	608.8	607.1	607.1	603.6	598.4	600.1	598.4	596.7	591.5
5°	595.0	596.7	598.4	601.9	608.8	612.2	612.2	614.0	614.0	612.2	605.3
7.5°	589.8	593.2	596.7	600.1	608.8	614.0	622.6	633.0	633.0	634.7	627.8
10°	608.8	612.2	617.4	622.6	631.3	639.9	646.8	658.9	658.9	662.4	660.7
12.5°	648.6	648.6	650.3	653.8	665.9	676.2	688.3	698.7	700.5	702.2	697.0
15°	697.0	697.0	698.7	698.7	705.6	721.2	743.7	754.1	752.3	750.6	740.2
17.5°	752.3	752.3	752.3	754.1	757.5	766.2	792.1	812.9	811.1	809.4	788.7
20°	804.2	807.7	811.1	812.9	816.3	823.3	850.9	875.1	880.3	873.4	837.1
22.5°	863.0	864.8	866.5	871.7	880.3	883.8	911.5	947.8	953.0	944.3	895.9
25°	921.8	925.3	930.5	937.4	946.0	963.3	982.4	1030.8	1036.0	1025.6	959.9
27.5°	1051.5	1049.8	1034.3	1022.1	1023.9	1036.0	1061.9	1113.8	1119.0	1108.6	1023.9
30°	1272.9	1252.2	1222.8	1169.2	1117.3	1122.5	1158.8	1208.9	1217.6	1203.7	1094.8
32.5°	1587.7	1566.9	1494.3	1376.7	1262.5	1224.5	1271.2	1319.6	1330.0	1314.4	1177.8
35°	1893.8	1888.6	1819.5	1677.6	1483.9	1378.4	1390.5	1452.8	1456.3	1437.2	1281.6
37.5°	2272.6	2253.6	2158.4	1999.3	1771.0	1582.5	1547.9	1606.7	1615.4	1592.9	1407.8
40°	2523.4	2516.4	2459.4	2347.0	2101.4	1864.4	1739.9	1797.0	1795.2	1762.4	1553.1
42.5°	2668.6	2672.1	2668.6	2615.0	2474.9	2203.4	1994.1	1997.6	2002.8	1968.2	1720.9
45°	2767.2	2767.2	2772.4	2815.7	2762.0	2608.1	2303.7	2225.9	2232.8	2179.2	1895.6
47.5°	2765.5	2775.9	2803.5	2903.9	2976.5	2985.1	2691.1	2492.2	2488.8	2407.5	2075.4
50°	2578.7	2571.8	2685.9	2910.8	3128.7	3296.5	3057.8	2774.1	2744.7	2644.4	2262.2
52.5°	2158.4	2180.9	2371.2	2701.5	3165.0	3507.5	3374.3	3082.0	3044.0	2879.6	2426.5
55°	1791.8	1816.0	2001.1	2324.5	2967.9	3581.8	3587.0	3408.9	3332.8	3083.7	2596.0
57.5°	1345.6	1392.3	1665.5	1969.9	2535.5	3396.8	3663.1	3721.9	3638.9	3280.9	2734.4
60°	859.6	887.2	1193.4	1568.7	2054.7	2912.5	3647.6	3903.5	3858.6	3460.8	2850.2
62.5°	562.1	577.7	788.7	1181.3	1565.2	2194.8	3462.5	3976.2	3976.2	3581.8	2936.7
64°	423.7	427.2	577.7	959.9	1305.8	1710.5	3244.6	3953.7	3995.2	3654.5	2954.0
65°	335.5	337.3	451.4	797.3	1172.6	1402.6	3054.3	3905.3	3972.7	3682.1	2964.4
67.5°	235.2	240.4	292.3	460.1	840.5	809.4	2263.9	3677.0	3760.0	3690.8	2950.6
70°	204.1	211.0	245.6	300.9	600.1	470.4	1203.7	3133.9	3232.5	3438.3	2746.5
72.5°	155.7	164.3	205.8	254.2	422.0	318.2	465.2	2225.9	2381.5	2658.3	2267.4
75°	112.4	115.9	152.2	207.5	295.7	245.6	200.6	1148.4	1305.8	1568.7	1409.6
77.5°	70.9	76.1	103.8	155.7	264.6	186.8	119.3	418.5	527.5	683.2	615.7
80°	41.5	43.2	62.3	107.2	178.1	138.4	76.1	148.7	179.9	254.2	164.3
82.5°	24.2	25.9	39.8	72.6	115.9	107.2	48.4	76.1	84.7	96.9	34.6
85°	8.6	8.6	27.7	43.2	62.3	53.6	27.7	39.8	43.2	53.6	10.4
87.5°	1.7	1.7	13.8	22.5	22.5	8.6	13.8	17.3	20.8	29.4	3.5
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°	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6	584.6
2.5°	589.8	584.6	579.4	572.5	567.3	556.9	551.7	544.8	543.1	539.6	537.9
5°	603.6	595.0	582.8	565.6	555.2	539.6	529.2	518.9	517.1	513.7	511.9
7.5°	622.6	614.0	598.4	579.4	562.1	546.5	534.4	518.9	503.3	491.2	491.2
10°	653.8	643.4	622.6	605.3	584.6	551.7	494.6	442.8	409.9	389.1	382.2
12.5°	691.8	678.0	655.5	634.7	595.0	491.2	403.0	335.5	280.2	254.2	249.1
15°	731.6	719.5	697.0	665.9	546.5	409.9	294.0	190.2	136.6	112.4	115.9
17.5°	774.8	757.5	731.6	669.3	480.8	306.1	157.4	96.9	83.0	79.6	79.6
20°	819.8	797.3	771.4	631.3	396.1	176.4	89.9	72.6	67.5	62.3	64.0
22.5°	868.2	840.5	800.8	574.2	283.6	95.1	69.2	58.8	51.9	50.2	50.2
25°	920.1	880.3	830.2	508.5	164.3	72.6	57.1	46.7	41.5	39.8	38.0
27.5°	975.4	925.3	837.1	422.0	93.4	60.5	45.0	36.3	31.1	29.4	29.4
30°	1025.6	970.3	821.5	313.0	70.9	50.2	36.3	27.7	24.2	24.2	24.2
32.5°	1093.1	1020.4	773.1	195.4	57.1	39.8	27.7	22.5	19.0	19.0	19.0
35°	1181.3	1094.8	724.7	103.8	46.7	32.9	22.5	17.3	15.6	15.6	15.6
37.5°	1302.3	1193.4	681.4	65.7	38.0	25.9	17.3	13.8	12.1	12.1	12.1
40°	1426.9	1311.0	620.9	50.2	31.1	20.8	13.8	10.4	8.6	8.6	10.4
42.5°	1582.5	1447.6	551.7	43.2	25.9	17.3	10.4	6.9	5.2	6.9	6.9
45°	1739.9	1591.2	454.9	36.3	22.5	13.8	6.9	3.5	3.5	5.2	5.2
47.5°	1902.5	1743.4	352.8	31.1	19.0	10.4	5.2	1.7	1.7	3.5	3.5
50°	2070.2	1893.8	262.9	27.7	15.6	8.6	3.5	1.7	0.0	1.7	1.7
52.5°	2238.0	2039.1	204.1	24.2	13.8	6.9	1.7	0.0	0.0	0.0	1.7
55°	2393.7	2170.5	162.6	20.8	12.1	5.2	1.7	0.0	0.0	0.0	0.0
57.5°	2525.1	2267.4	129.7	19.0	10.4	3.5	1.7	0.0	0.0	0.0	0.0
60°	2649.6	2343.5	100.3	15.6	8.6	3.5	1.7	0.0	0.0	0.0	0.0
62.5°	2737.8	2372.9	81.3	13.8	6.9	3.5	0.0	0.0	0.0	0.0	0.0
64°	2775.9	2376.4	70.9	12.1	6.9	3.5	1.7	0.0	0.0	0.0	0.0
65°	2798.4	2366.0	65.7	12.1	6.9	3.5	1.7	0.0	0.0	0.0	0.0
67.5°	2803.5	2308.9	50.2	10.4	5.2	1.7	1.7	0.0	0.0	0.0	0.0
70°	2651.4	2110.0	36.3	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	2215.5	1611.9	24.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
75°	1383.6	697.0	13.8	5.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	572.5	211.0	8.6	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0
80°	131.4	50.2	3.5	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	31.1	8.6	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	6.9	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	1.7	1.7	1.7	1.7	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)