

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: P594623

Luminaire Tested: **ISS-PA1C-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1C-730-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5267 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

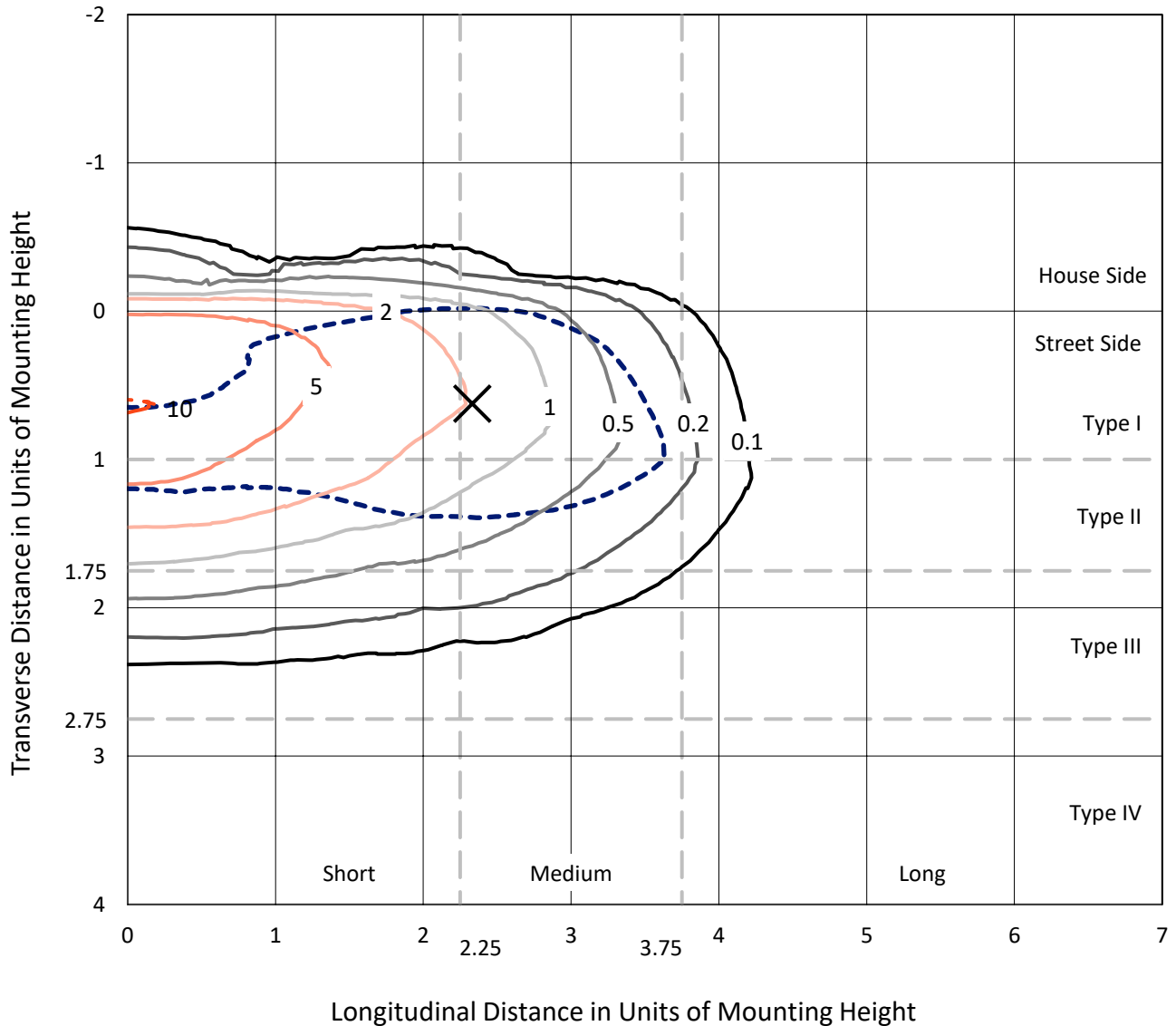
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

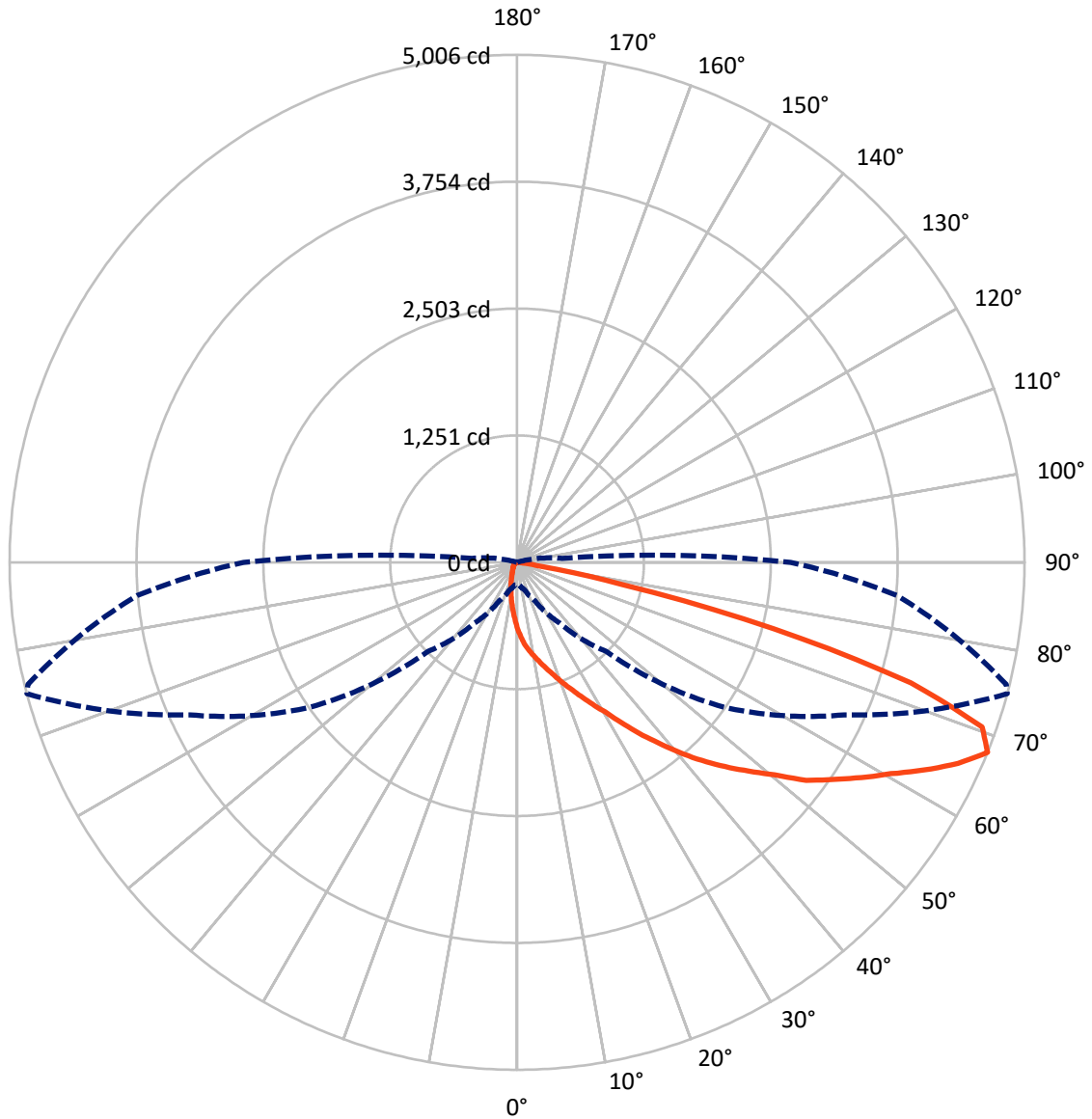
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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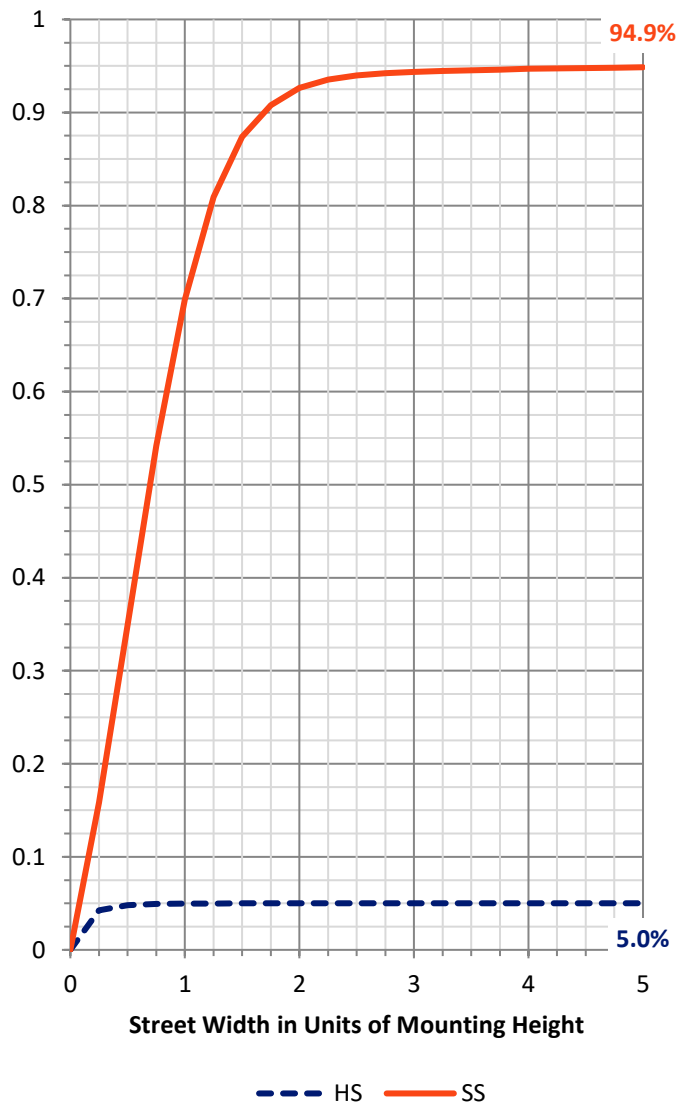
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	265.5	0.0	265.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5001.5	0.0	5001.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	5267.0	0.0	5267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.1
10°-20°	190.5	3.6
20°-30°	383.0	7.3
30°-40°	724.4	13.8
40°-50°	1083.7	20.6
50°-60°	1251.2	23.8
60°-70°	1109.1	21.1
70°-80°	448.3	8.5
80°-90°	17.9	0.3
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°	5267.0	100.0
0°-180°	5267.0	100.0

Coefficient of Utilization



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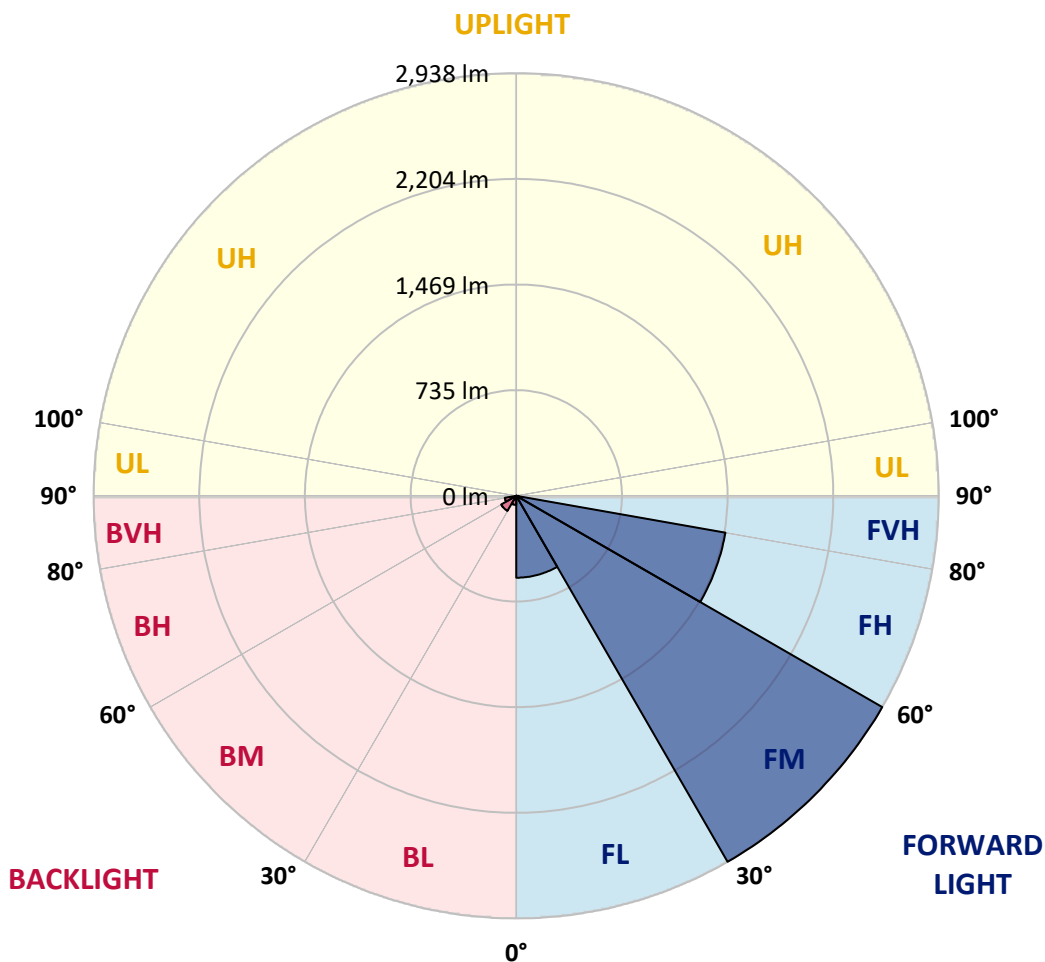
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.4	10.8			
FM (30°-60°)	2938.1	55.8			
FH (60°-80°)	1476.8	28.0			G1/1800
FVH (80°-90°)	17.1	0.3			G1/100
BL (0°-30°)	63.1	1.2	B0/110		
BM (30°-60°)	121.1	2.3	B0/220		
BH (60°-80°)	80.5	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
2.5°	910.7	913.9	907.5	893.3	880.7	850.6	826.9	784.2	738.4	738.4	683.0
5°	1018.2	1015.0	1011.9	1000.8	991.3	966.0	934.4	888.6	817.4	811.1	719.4
7.5°	1070.4	1067.2	1060.9	1056.2	1056.2	1038.8	1008.7	961.3	882.2	875.9	752.6
10°	1132.0	1125.7	1125.7	1113.1	1109.9	1089.4	1073.5	1032.4	945.5	937.6	790.5
12.5°	1204.8	1198.5	1200.0	1189.0	1184.2	1162.1	1140.0	1100.4	1013.5	1005.6	834.8
15°	1245.9	1242.7	1252.2	1253.8	1257.0	1238.0	1217.4	1176.3	1089.4	1078.3	887.0
17.5°	1269.6	1269.6	1280.7	1301.2	1324.9	1313.9	1298.1	1264.9	1166.8	1160.5	942.3
20°	1315.5	1310.7	1329.7	1348.7	1378.7	1388.2	1383.4	1358.1	1260.1	1241.1	1002.4
22.5°	1391.3	1385.0	1402.4	1426.1	1462.5	1465.7	1468.8	1456.2	1355.0	1336.0	1065.6
25°	1570.0	1554.2	1538.4	1535.2	1549.5	1562.1	1552.6	1562.1	1462.5	1445.1	1133.6
27.5°	1917.8	1891.0	1815.1	1731.3	1672.8	1683.8	1653.8	1671.2	1585.8	1563.7	1196.9
30°	2251.4	2224.6	2162.9	2014.3	1879.9	1819.8	1775.5	1769.2	1712.3	1687.0	1269.6
32.5°	2483.9	2466.5	2425.4	2325.8	2158.2	2004.8	1919.4	1889.4	1881.5	1841.9	1362.9
35°	2642.0	2626.2	2597.7	2517.1	2393.7	2223.0	2075.9	2009.5	2069.6	2022.2	1468.8
37.5°	2736.8	2725.8	2694.1	2638.8	2572.4	2460.1	2270.4	2164.5	2259.4	2215.1	1604.8
40°	2806.4	2777.9	2755.8	2713.1	2691.0	2654.6	2491.8	2325.8	2464.9	2419.0	1739.2
42.5°	2812.7	2800.1	2782.7	2757.4	2760.6	2784.3	2727.3	2512.3	2672.0	2629.3	1881.5
45°	2811.1	2798.5	2785.8	2760.6	2776.4	2864.9	2917.1	2708.4	2874.4	2830.1	2031.7
47.5°	2765.3	2755.8	2759.0	2759.0	2779.5	2899.7	3064.1	2907.6	3076.8	3034.1	2213.5
50°	2604.0	2613.5	2676.8	2710.0	2746.3	2901.3	3166.9	3116.3	3295.0	3264.9	2389.0
52.5°	2093.3	2147.1	2403.2	2578.7	2684.7	2869.6	3233.3	3336.1	3571.6	3525.8	2588.2
55°	1600.0	1603.2	1849.9	2257.8	2562.9	2812.7	3271.2	3484.7	3781.9	3756.6	2763.7
57.5°	1298.1	1296.5	1418.2	1785.0	2246.7	2722.6	3280.7	3593.8	4004.9	3957.4	2966.1
60°	1060.9	1054.6	1127.3	1353.4	1835.6	2510.7	3245.9	3682.3	4234.1	4216.7	3178.0
62.5°	766.8	773.1	869.6	1045.1	1415.1	2120.2	3171.6	3709.2	4510.8	4493.4	3415.1
65°	441.1	460.1	566.0	752.6	1084.6	1658.5	2959.8	3688.6	4781.2	4779.6	3634.9
67.5°	221.4	222.9	279.8	420.6	728.9	1241.1	2491.8	3559.0	5005.7	4970.9	3761.4
70°	142.3	145.5	164.4	216.6	403.2	860.1	1903.6	3192.2	4865.0	4852.3	3576.4
72.5°	109.1	112.3	128.1	142.3	210.3	488.6	1288.6	2480.7	4061.8	4027.0	2789.0
75°	85.4	87.0	102.8	115.4	140.7	229.3	646.7	1546.3	2616.7	2526.6	1587.4
77.5°	68.0	69.6	77.5	91.7	107.5	128.1	191.3	695.7	1064.1	950.2	515.4
80°	44.3	45.9	58.5	71.1	91.7	83.8	74.3	200.8	227.7	205.5	91.7
82.5°	25.3	26.9	39.5	56.9	69.6	47.4	42.7	58.5	53.8	52.2	28.5
85°	7.9	7.9	26.9	39.5	31.6	14.2	26.9	20.6	17.4	15.8	9.5
87.5°	1.6	1.6	12.6	14.2	4.7	1.6	3.2	4.7	6.3	7.9	4.7
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°	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6	654.6
2.5°	656.1	624.5	566.0	515.4	466.4	423.7	393.7	366.8	347.8	343.1	335.2
5°	660.9	599.2	487.0	392.1	309.9	243.5	205.5	180.2	167.6	159.7	159.7
7.5°	665.6	573.9	412.7	286.2	196.1	148.6	124.9	113.8	109.1	107.5	105.9
10°	675.1	555.0	349.4	205.5	134.4	112.3	102.8	98.0	94.9	93.3	93.3
12.5°	690.9	539.1	290.9	151.8	110.7	99.6	93.3	87.0	83.8	82.2	82.2
15°	711.5	528.1	240.3	121.7	101.2	90.1	82.2	75.9	71.1	69.6	69.6
17.5°	739.9	520.2	197.6	107.5	93.3	80.6	71.1	64.8	60.1	58.5	58.5
20°	768.4	520.2	162.9	99.6	85.4	71.1	61.7	53.8	49.0	47.4	47.4
22.5°	806.3	518.6	136.0	91.7	75.9	61.7	52.2	42.7	39.5	37.9	37.9
25°	838.0	518.6	117.0	83.8	66.4	53.8	42.7	34.8	31.6	30.0	30.0
27.5°	875.9	513.8	99.6	74.3	56.9	44.3	34.8	28.5	25.3	23.7	23.7
30°	909.1	507.5	88.5	66.4	49.0	36.4	28.5	22.1	20.6	20.6	20.6
32.5°	964.5	502.8	79.1	56.9	41.1	30.0	22.1	17.4	15.8	15.8	15.8
35°	1030.9	502.8	72.7	49.0	34.8	25.3	17.4	14.2	12.6	12.6	12.6
37.5°	1117.8	507.5	64.8	42.7	28.5	20.6	14.2	11.1	9.5	9.5	9.5
40°	1209.5	518.6	58.5	37.9	25.3	15.8	11.1	7.9	6.3	7.9	7.9
42.5°	1318.6	529.7	52.2	33.2	20.6	12.6	7.9	4.7	3.2	4.7	4.7
45°	1426.1	540.7	49.0	28.5	17.4	9.5	4.7	3.2	1.6	3.2	3.2
47.5°	1558.9	567.6	45.9	25.3	14.2	7.9	3.2	1.6	0.0	1.6	1.6
50°	1712.3	597.6	41.1	20.6	11.1	6.3	3.2	0.0	0.0	0.0	0.0
52.5°	1859.3	622.9	36.4	17.4	9.5	4.7	1.6	0.0	0.0	0.0	0.0
55°	2006.4	638.8	31.6	14.2	7.9	4.7	1.6	0.0	0.0	0.0	0.0
57.5°	2164.5	648.2	28.5	12.6	6.3	3.2	1.6	0.0	0.0	0.0	0.0
60°	2340.0	648.2	23.7	11.1	4.7	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2534.5	629.3	22.1	9.5	4.7	3.2	1.6	0.0	0.0	0.0	0.0
65°	2692.6	561.3	19.0	7.9	4.7	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2698.9	444.3	17.4	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0
70°	2406.4	303.6	14.2	4.7	3.2	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	1800.8	162.9	12.6	4.7	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	970.8	63.2	7.9	4.7	3.2	1.6	1.6	0.0	0.0	0.0	0.0
77.5°	283.0	31.6	4.7	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
80°	52.2	15.8	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	14.2	6.3	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.3	3.2	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	1.6	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)