

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: P594668

Luminaire Tested: **ISS-PA1C-827-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594668  
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-827-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 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: 4251 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

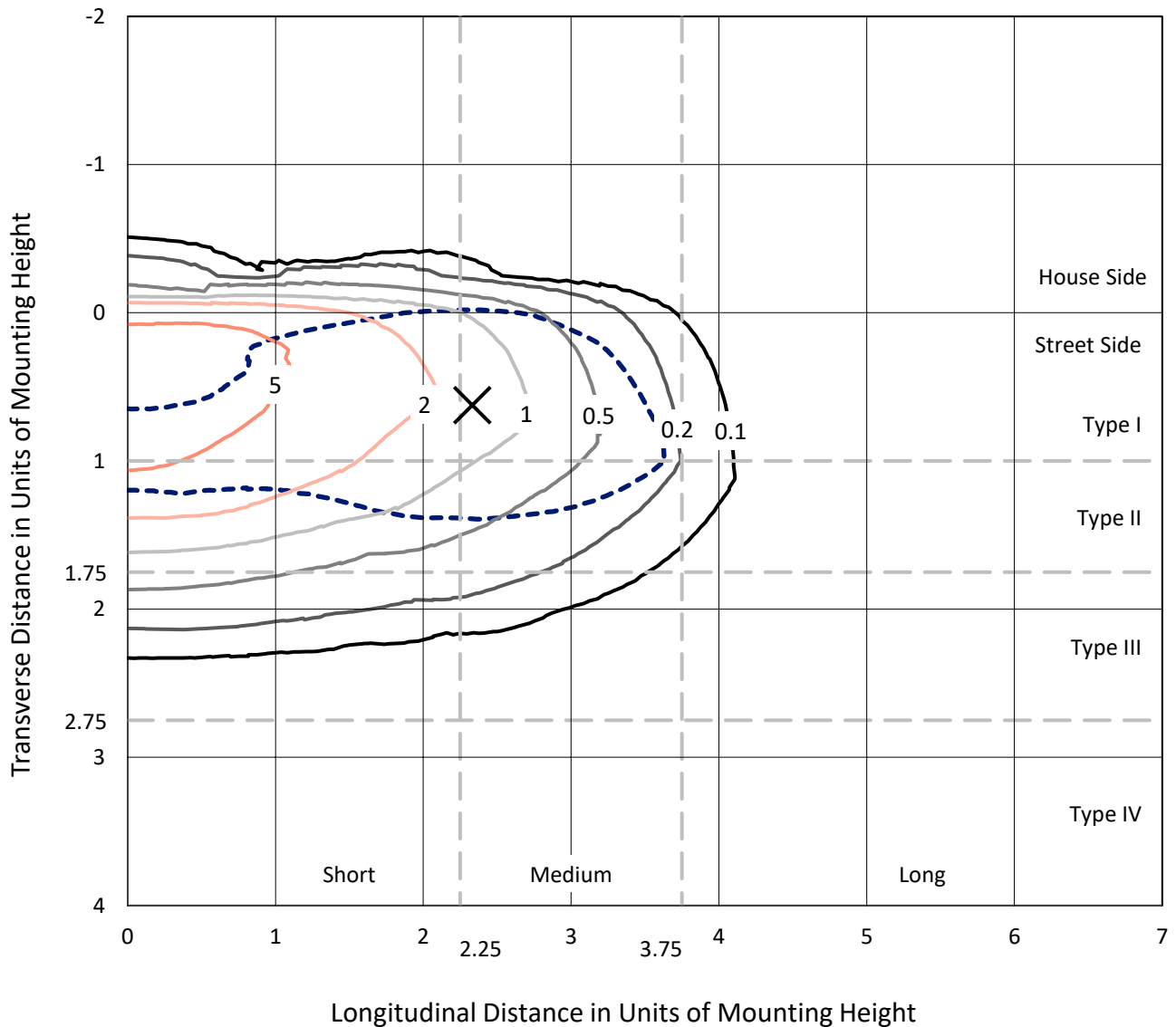
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

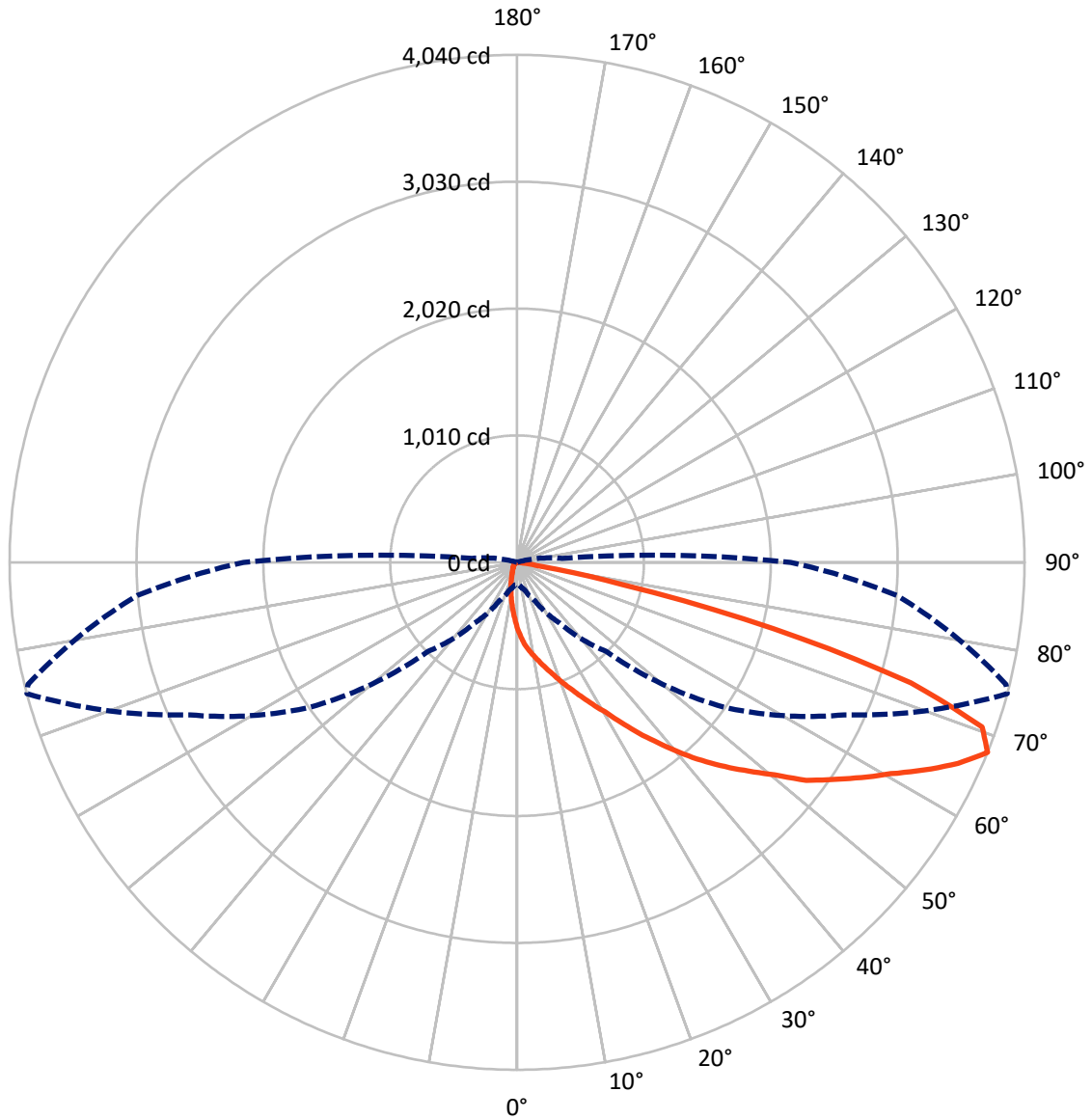
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.3 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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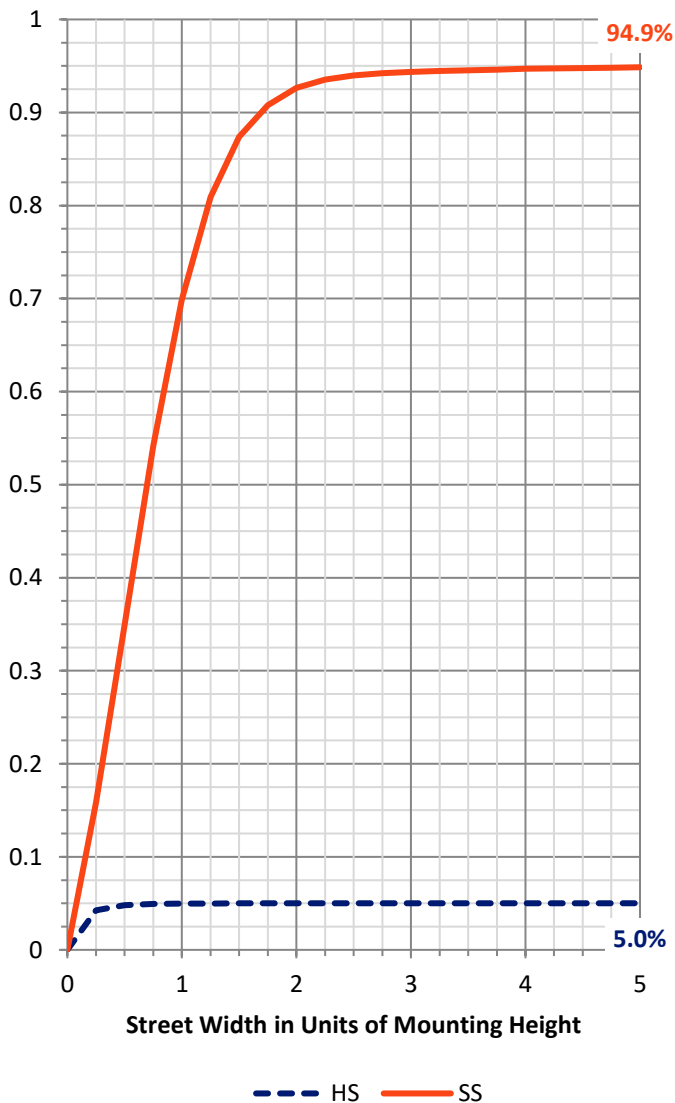
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	214.3	0.0	214.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	4036.7	0.0	4036.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	4251.0	0.0	4251.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	1.1
10°-20°	153.8	3.6
20°-30°	309.1	7.3
30°-40°	584.7	13.8
40°-50°	874.7	20.6
50°-60°	1009.8	23.8
60°-70°	895.1	21.1
70°-80°	361.8	8.5
80°-90°	14.4	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°	4251.0	100.0
0°-180°	4251.0	100.0

**Coefficient of Utilization**

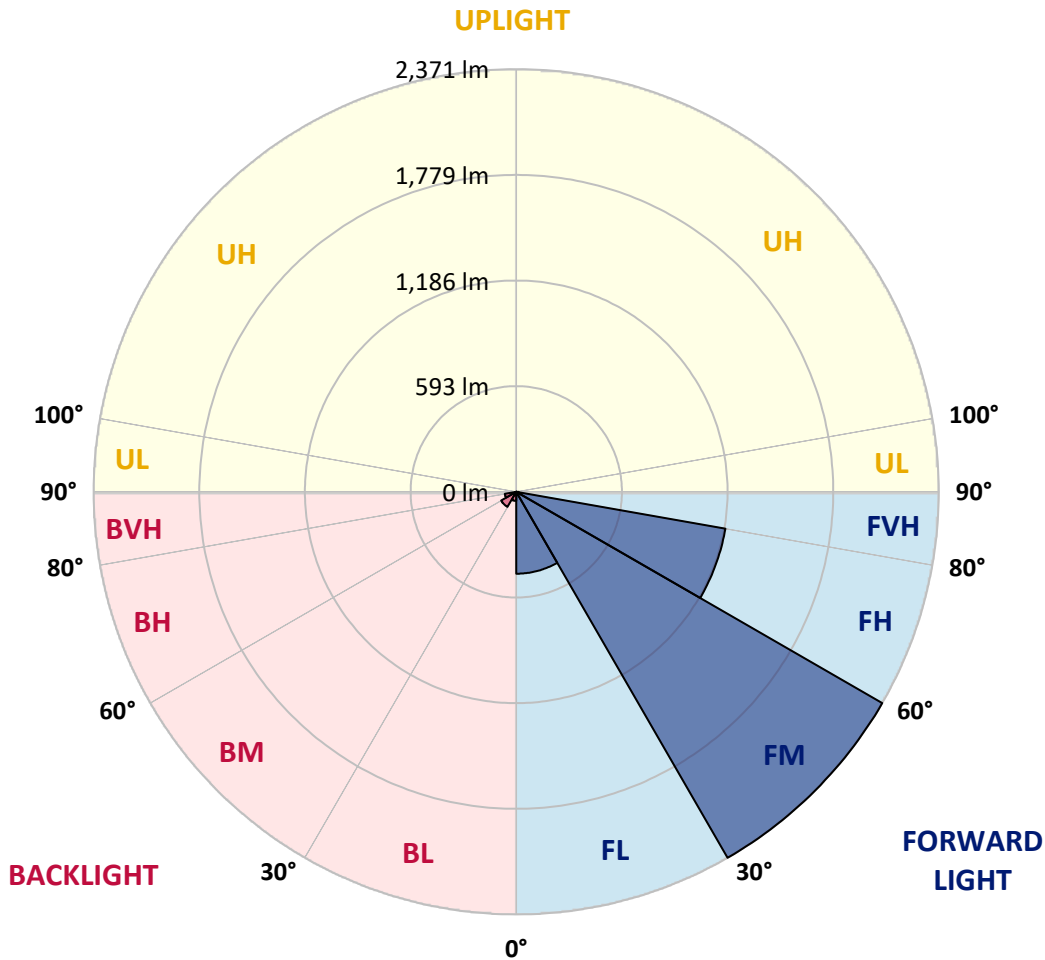


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.6	10.8			
FM (30°-60°)	2371.4	55.8			
FH (60°-80°)	1191.9	28.0			G1/1800
FVH (80°-90°)	13.8	0.3			G1/100
BL (0°-30°)	50.9	1.2	B0/110		
BM (30°-60°)	97.8	2.3	B0/220		
BH (60°-80°)	65.0	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
2.5°	735.0	737.6	732.5	721.0	710.8	686.5	667.4	632.9	595.9	595.9	551.3
5°	821.8	819.2	816.7	807.8	800.1	779.7	754.2	717.2	659.7	654.6	580.6
7.5°	863.9	861.4	856.3	852.4	852.4	838.4	814.1	775.9	712.1	707.0	607.4
10°	913.7	908.6	908.6	898.4	895.8	879.2	866.5	833.3	763.1	756.7	638.0
12.5°	972.4	967.3	968.5	959.6	955.8	937.9	920.1	888.2	818.0	811.6	673.8
15°	1005.6	1003.0	1010.7	1011.9	1014.5	999.2	982.6	949.4	879.2	870.3	715.9
17.5°	1024.7	1024.7	1033.6	1050.2	1069.4	1060.4	1047.7	1020.9	941.8	936.6	760.5
20°	1061.7	1057.9	1073.2	1088.5	1112.7	1120.4	1116.6	1096.2	1017.0	1001.7	809.0
22.5°	1123.0	1117.8	1131.9	1151.0	1180.4	1182.9	1185.5	1175.3	1093.6	1078.3	860.1
25°	1267.2	1254.4	1241.6	1239.1	1250.6	1260.8	1253.1	1260.8	1180.4	1166.3	915.0
27.5°	1547.9	1526.2	1464.9	1397.3	1350.1	1359.0	1334.8	1348.8	1279.9	1262.0	966.0
30°	1817.1	1795.5	1745.7	1625.7	1517.3	1468.8	1433.0	1427.9	1382.0	1361.6	1024.7
32.5°	2004.7	1990.7	1957.5	1877.1	1741.9	1618.1	1549.2	1524.9	1518.5	1486.6	1100.0
35°	2132.3	2119.6	2096.6	2031.5	1932.0	1794.2	1675.5	1621.9	1670.4	1632.1	1185.5
37.5°	2208.9	2200.0	2174.4	2129.8	2076.2	1985.6	1832.5	1747.0	1823.5	1787.8	1295.2
40°	2265.0	2242.1	2224.2	2189.8	2171.9	2142.5	2011.1	1877.1	1989.4	1952.4	1403.7
42.5°	2270.2	2259.9	2245.9	2225.5	2228.0	2247.2	2201.2	2027.7	2156.6	2122.1	1518.5
45°	2268.9	2258.7	2248.5	2228.0	2240.8	2312.3	2354.4	2185.9	2319.9	2284.2	1639.8
47.5°	2231.9	2224.2	2226.8	2226.8	2243.4	2340.3	2473.1	2346.7	2483.3	2448.8	1786.5
50°	2101.7	2109.4	2160.4	2187.2	2216.6	2341.6	2556.0	2515.2	2659.4	2635.1	1928.2
52.5°	1689.5	1732.9	1939.6	2081.3	2166.8	2316.1	2609.6	2692.5	2882.7	2845.7	2089.0
55°	1291.4	1293.9	1493.0	1822.2	2068.5	2270.2	2640.2	2812.5	3052.4	3032.0	2230.6
57.5°	1047.7	1046.4	1144.6	1440.7	1813.3	2197.4	2647.9	2900.5	3232.3	3194.0	2393.9
60°	856.3	851.1	909.8	1092.3	1481.5	2026.4	2619.8	2972.0	3417.4	3403.3	2564.9
62.5°	618.9	624.0	701.8	843.5	1142.1	1711.2	2559.8	2993.7	3640.7	3626.6	2756.3
65°	356.0	371.3	456.8	607.4	875.4	1338.6	2388.8	2977.1	3858.9	3857.6	2933.7
67.5°	178.7	179.9	225.9	339.4	588.3	1001.7	2011.1	2872.5	4040.1	4012.0	3035.8
70°	114.8	117.4	132.7	174.8	325.4	694.2	1536.4	2576.4	3926.5	3916.3	2886.5
72.5°	88.0	90.6	103.4	114.8	169.7	394.3	1040.0	2002.2	3278.3	3250.2	2251.0
75°	68.9	70.2	82.9	93.2	113.6	185.0	521.9	1248.0	2111.9	2039.2	1281.2
77.5°	54.9	56.1	62.5	74.0	86.8	103.4	154.4	561.5	858.8	766.9	416.0
80°	35.7	37.0	47.2	57.4	74.0	67.6	60.0	162.1	183.8	165.9	74.0
82.5°	20.4	21.7	31.9	45.9	56.1	38.3	34.5	47.2	43.4	42.1	23.0
85°	6.4	6.4	21.7	31.9	25.5	11.5	21.7	16.6	14.0	12.8	7.7
87.5°	1.3	1.3	10.2	11.5	3.8	1.3	2.6	3.8	5.1	6.4	3.8
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°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
2.5°	529.6	504.1	456.8	416.0	376.4	342.0	317.7	296.1	280.7	276.9	270.5
5°	533.4	483.6	393.0	316.5	250.1	196.5	165.9	145.5	135.3	128.9	128.9
7.5°	537.2	463.2	333.1	231.0	158.2	120.0	100.8	91.9	88.0	86.8	85.5
10°	544.9	447.9	282.0	165.9	108.5	90.6	82.9	79.1	76.6	75.3	75.3
12.5°	557.6	435.1	234.8	122.5	89.3	80.4	75.3	70.2	67.6	66.4	66.4
15°	574.2	426.2	194.0	98.3	81.7	72.7	66.4	61.3	57.4	56.1	56.1
17.5°	597.2	419.8	159.5	86.8	75.3	65.1	57.4	52.3	48.5	47.2	47.2
20°	620.2	419.8	131.4	80.4	68.9	57.4	49.8	43.4	39.6	38.3	38.3
22.5°	650.8	418.6	109.7	74.0	61.3	49.8	42.1	34.5	31.9	30.6	30.6
25°	676.3	418.6	94.4	67.6	53.6	43.4	34.5	28.1	25.5	24.2	24.2
27.5°	707.0	414.7	80.4	60.0	45.9	35.7	28.1	23.0	20.4	19.1	19.1
30°	733.7	409.6	71.5	53.6	39.6	29.3	23.0	17.9	16.6	16.6	16.6
32.5°	778.4	405.8	63.8	45.9	33.2	24.2	17.9	14.0	12.8	12.8	12.8
35°	832.0	405.8	58.7	39.6	28.1	20.4	14.0	11.5	10.2	10.2	10.2
37.5°	902.2	409.6	52.3	34.5	23.0	16.6	11.5	8.9	7.7	7.7	7.7
40°	976.2	418.6	47.2	30.6	20.4	12.8	8.9	6.4	5.1	6.4	6.4
42.5°	1064.3	427.5	42.1	26.8	16.6	10.2	6.4	3.8	2.6	3.8	3.8
45°	1151.0	436.4	39.6	23.0	14.0	7.7	3.8	2.6	1.3	2.6	2.6
47.5°	1258.2	458.1	37.0	20.4	11.5	6.4	2.6	1.3	0.0	1.3	1.3
50°	1382.0	482.4	33.2	16.6	8.9	5.1	2.6	0.0	0.0	0.0	0.0
52.5°	1500.7	502.8	29.3	14.0	7.7	3.8	1.3	0.0	0.0	0.0	0.0
55°	1619.4	515.5	25.5	11.5	6.4	3.8	1.3	0.0	0.0	0.0	0.0
57.5°	1747.0	523.2	23.0	10.2	5.1	2.6	1.3	0.0	0.0	0.0	0.0
60°	1888.6	523.2	19.1	8.9	3.8	2.6	1.3	0.0	0.0	0.0	0.0
62.5°	2045.6	507.9	17.9	7.7	3.8	2.6	1.3	0.0	0.0	0.0	0.0
65°	2173.2	453.0	15.3	6.4	3.8	2.6	1.3	0.0	0.0	0.0	0.0
67.5°	2178.3	358.6	14.0	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
70°	1942.2	245.0	11.5	3.8	2.6	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	1453.5	131.4	10.2	3.8	2.6	1.3	1.3	0.0	0.0	0.0	0.0
75°	783.5	51.0	6.4	3.8	2.6	1.3	1.3	0.0	0.0	0.0	0.0
77.5°	228.4	25.5	3.8	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
80°	42.1	12.8	2.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	11.5	5.1	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	1.3	1.3	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)