

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: P594670

Luminaire Tested: **ISS-PA1C-827-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594670  
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-827-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 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: 3698 lumens  
Efficiency: N/A  
Efficacy: 75.6 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

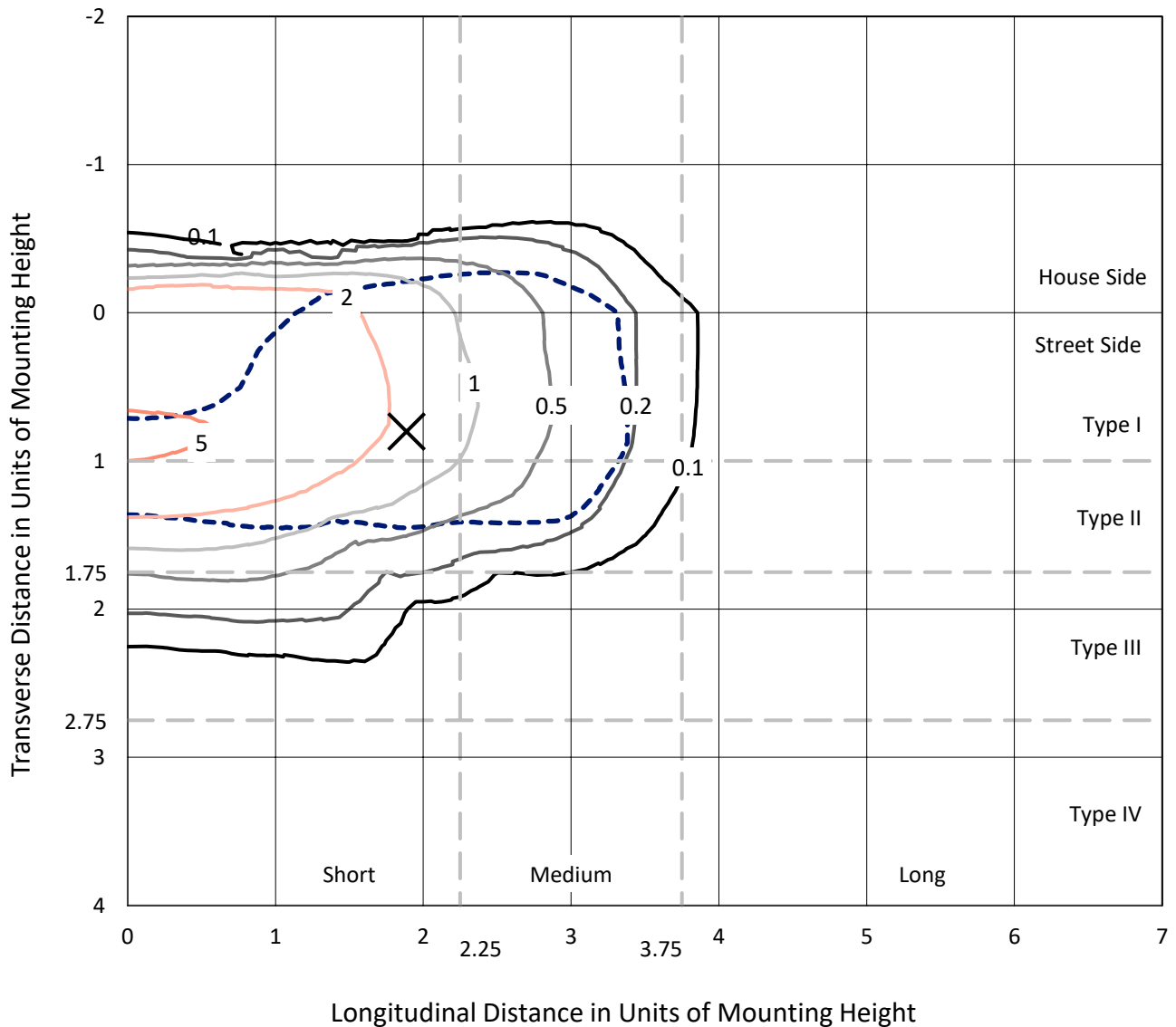
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

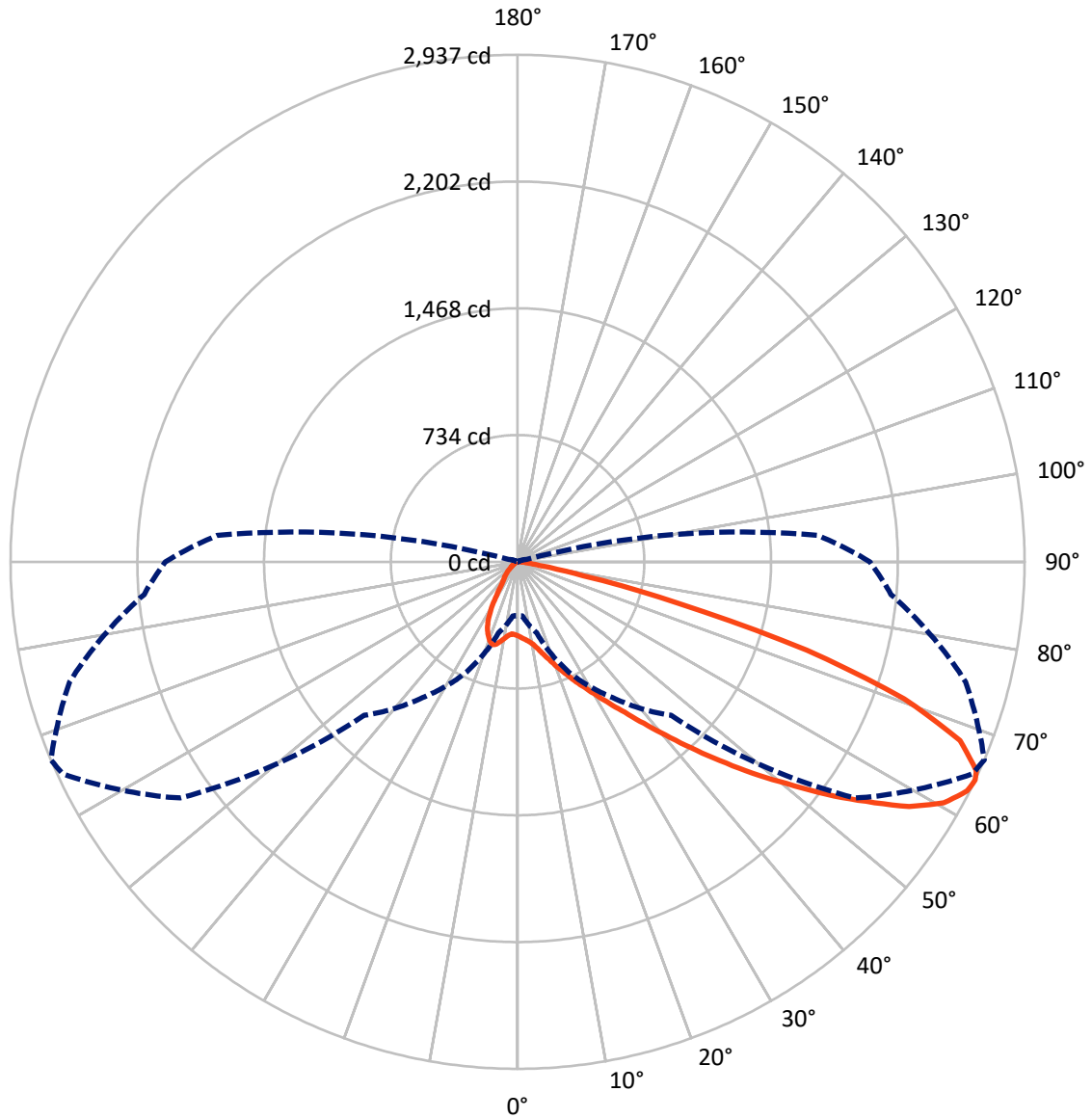
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 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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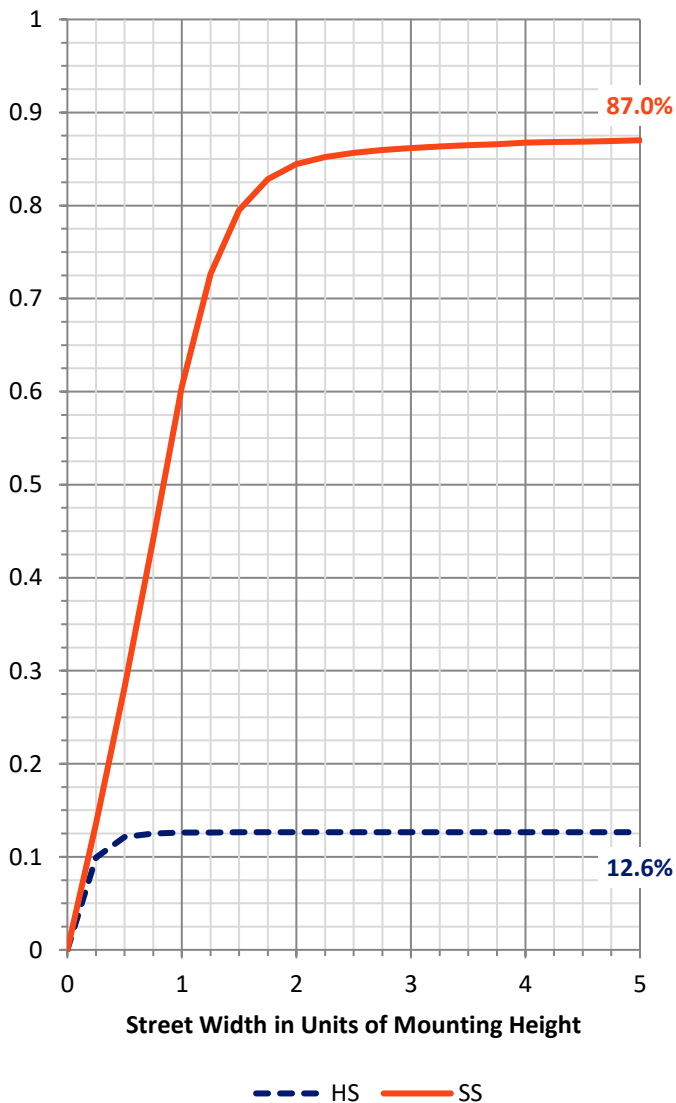
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	473.1	0.0	473.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3224.9	0.0	3224.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3698.0	0.0	3698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.8	1.1
10°-20°	120.3	3.3
20°-30°	218.3	5.9
30°-40°	418.2	11.3
40°-50°	770.7	20.8
50°-60°	995.4	26.9
60°-70°	815.3	22.0
70°-80°	299.7	8.1
80°-90°	19.3	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°	3698.0	100.0
0°-180°	3698.0	100.0

**Coefficient of Utilization**



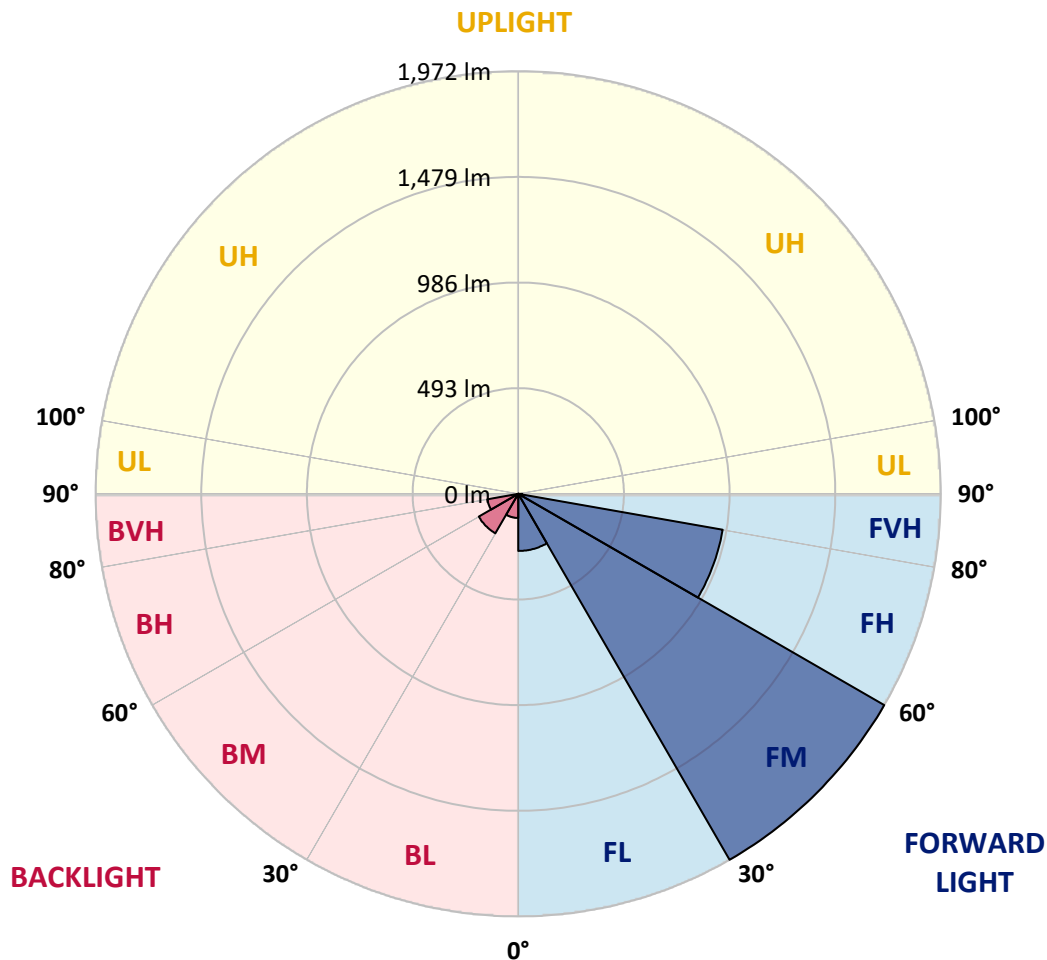
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.6	7.2			
FM (30°-60°)	1971.6	53.3			
FH (60°-80°)	968.3	26.2			G1/1800
FVH (80°-90°)	18.5	0.5			G1/100
BL (0°-30°)	112.7	3.0	B1/500		
BM (30°-60°)	212.7	5.8	B0/220		
BH (60°-80°)	146.8	4.0	B1/500		G1/500
BVH (80°-90°)	0.9	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°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	444.9	444.9	447.5	446.2	446.2	443.7	439.9	441.1	439.9	438.6	434.8
5°	437.3	438.6	439.9	442.4	447.5	450.0	450.0	451.3	451.3	450.0	444.9
7.5°	433.5	436.0	438.6	441.1	447.5	451.3	457.7	465.3	465.3	466.6	461.5
10°	447.5	450.0	453.8	457.7	464.0	470.4	475.5	484.4	484.4	486.9	485.6
12.5°	476.7	476.7	478.0	480.5	489.4	497.1	506.0	513.6	514.9	516.1	512.3
15°	512.3	512.3	513.6	513.6	518.7	530.1	546.6	554.3	553.0	551.7	544.1
17.5°	553.0	553.0	553.0	554.3	556.8	563.2	582.2	597.5	596.2	595.0	579.7
20°	591.1	593.7	596.2	597.5	600.0	605.1	625.5	643.3	647.1	642.0	615.3
22.5°	634.4	635.6	636.9	640.7	647.1	649.6	670.0	696.7	700.5	694.1	658.5
25°	677.6	680.1	683.9	689.0	695.4	708.1	722.1	757.7	761.5	753.9	705.6
27.5°	772.9	771.7	760.2	751.3	752.6	761.5	780.6	818.7	822.5	814.9	752.6
30°	935.7	920.4	898.8	859.4	821.2	825.1	851.8	888.6	895.0	884.8	804.7
32.5°	1167.0	1151.8	1098.4	1011.9	928.0	900.1	934.4	970.0	977.6	966.2	865.7
35°	1392.0	1388.2	1337.4	1233.1	1090.7	1013.2	1022.1	1067.9	1070.4	1056.4	942.0
37.5°	1670.4	1656.5	1586.5	1469.6	1301.8	1163.2	1137.8	1181.0	1187.4	1170.8	1034.8
40°	1854.8	1849.7	1807.7	1725.1	1544.6	1370.4	1278.9	1320.8	1319.6	1295.4	1141.6
42.5°	1961.6	1964.1	1961.6	1922.2	1819.2	1619.6	1465.8	1468.3	1472.1	1446.7	1264.9
45°	2034.0	2034.0	2037.8	2069.6	2030.2	1917.1	1693.3	1636.1	1641.2	1601.8	1393.3
47.5°	2032.8	2040.4	2060.7	2134.5	2187.9	2194.2	1978.1	1831.9	1829.4	1769.6	1525.5
50°	1895.5	1890.4	1974.3	2139.5	2299.7	2423.0	2247.6	2039.1	2017.5	1943.8	1662.8
52.5°	1586.5	1603.1	1742.9	1985.7	2326.4	2578.1	2480.2	2265.4	2237.4	2116.7	1783.6
55°	1317.0	1334.8	1470.9	1708.6	2181.5	2632.8	2636.6	2505.7	2449.7	2266.7	1908.2
57.5°	989.0	1023.4	1224.2	1448.0	1863.7	2496.8	2692.6	2735.8	2674.8	2411.6	2009.9
60°	631.8	652.2	877.2	1153.0	1510.3	2140.8	2681.1	2869.3	2836.2	2543.8	2095.1
62.5°	413.2	424.6	579.7	868.3	1150.5	1613.2	2545.1	2922.7	2922.7	2632.8	2158.6
64°	311.5	314.0	424.6	705.6	959.8	1257.3	2384.9	2906.1	2936.6	2686.2	2171.3
65°	246.6	247.9	331.8	586.1	861.9	1031.0	2245.1	2870.5	2920.1	2706.5	2179.0
67.5°	172.9	176.7	214.8	338.2	617.8	595.0	1664.1	2702.7	2763.7	2712.9	2168.8
70°	150.0	155.1	180.5	221.2	441.1	345.8	884.8	2303.5	2376.0	2527.3	2018.8
72.5°	114.4	120.8	151.3	186.9	310.2	233.9	342.0	1636.1	1750.5	1953.9	1666.6
75°	82.6	85.2	111.9	152.6	217.4	180.5	147.5	844.1	959.8	1153.0	1036.1
77.5°	52.1	55.9	76.3	114.4	194.5	137.3	87.7	307.6	387.7	502.2	452.6
80°	30.5	31.8	45.8	78.8	130.9	101.7	55.9	109.3	132.2	186.9	120.8
82.5°	17.8	19.1	29.2	53.4	85.2	78.8	35.6	55.9	62.3	71.2	25.4
85°	6.4	6.4	20.3	31.8	45.8	39.4	20.3	29.2	31.8	39.4	7.6
87.5°	1.3	1.3	10.2	16.5	16.5	6.4	10.2	12.7	15.3	21.6	2.5
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°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	433.5	429.7	425.9	420.8	417.0	409.3	405.5	400.5	399.2	396.6	395.4
5°	443.7	437.3	428.4	415.7	408.1	396.6	389.0	381.4	380.1	377.6	376.3
7.5°	457.7	451.3	439.9	425.9	413.2	401.7	392.8	381.4	369.9	361.0	361.0
10°	480.5	472.9	457.7	444.9	429.7	405.5	363.6	325.4	301.3	286.0	281.0
12.5°	508.5	498.3	481.8	466.6	437.3	361.0	296.2	246.6	205.9	186.9	183.1
15°	537.7	528.8	512.3	489.4	401.7	301.3	216.1	139.8	100.4	82.6	85.2
17.5°	569.5	556.8	537.7	492.0	353.4	225.0	115.7	71.2	61.0	58.5	58.5
20°	602.6	586.1	567.0	464.0	291.1	129.7	66.1	53.4	49.6	45.8	47.0
22.5°	638.2	617.8	588.6	422.1	208.5	69.9	50.9	43.2	38.1	36.9	36.9
25°	676.3	647.1	610.2	373.8	120.8	53.4	42.0	34.3	30.5	29.2	28.0
27.5°	717.0	680.1	615.3	310.2	68.6	44.5	33.1	26.7	22.9	21.6	21.6
30°	753.9	713.2	603.9	230.1	52.1	36.9	26.7	20.3	17.8	17.8	17.8
32.5°	803.4	750.0	568.3	143.7	42.0	29.2	20.3	16.5	14.0	14.0	14.0
35°	868.3	804.7	532.7	76.3	34.3	24.2	16.5	12.7	11.4	11.4	11.4
37.5°	957.3	877.2	500.9	48.3	28.0	19.1	12.7	10.2	8.9	8.9	8.9
40°	1048.8	963.6	456.4	36.9	22.9	15.3	10.2	7.6	6.4	6.4	7.6
42.5°	1163.2	1064.1	405.5	31.8	19.1	12.7	7.6	5.1	3.8	5.1	5.1
45°	1278.9	1169.6	334.3	26.7	16.5	10.2	5.1	2.5	2.5	3.8	3.8
47.5°	1398.4	1281.4	259.3	22.9	14.0	7.6	3.8	1.3	1.3	2.5	2.5
50°	1521.7	1392.0	193.2	20.3	11.4	6.4	2.5	1.3	0.0	1.3	1.3
52.5°	1645.0	1498.8	150.0	17.8	10.2	5.1	1.3	0.0	0.0	0.0	1.3
55°	1759.4	1595.4	119.5	15.3	8.9	3.8	1.3	0.0	0.0	0.0	0.0
57.5°	1856.1	1666.6	95.3	14.0	7.6	2.5	1.3	0.0	0.0	0.0	0.0
60°	1947.6	1722.6	73.7	11.4	6.4	2.5	1.3	0.0	0.0	0.0	0.0
62.5°	2012.4	1744.2	59.7	10.2	5.1	2.5	0.0	0.0	0.0	0.0	0.0
64°	2040.4	1746.7	52.1	8.9	5.1	2.5	1.3	0.0	0.0	0.0	0.0
65°	2056.9	1739.1	48.3	8.9	5.1	2.5	1.3	0.0	0.0	0.0	0.0
67.5°	2060.7	1697.1	36.9	7.6	3.8	1.3	1.3	0.0	0.0	0.0	0.0
70°	1948.9	1550.9	26.7	5.1	2.5	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1628.5	1184.8	17.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
75°	1017.0	512.3	10.2	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	420.8	155.1	6.4	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0
80°	96.6	36.9	2.5	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	6.4	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.1	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)