

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: P594672

Luminaire Tested: **ISS-PA1C-827-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
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-T3-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3812 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

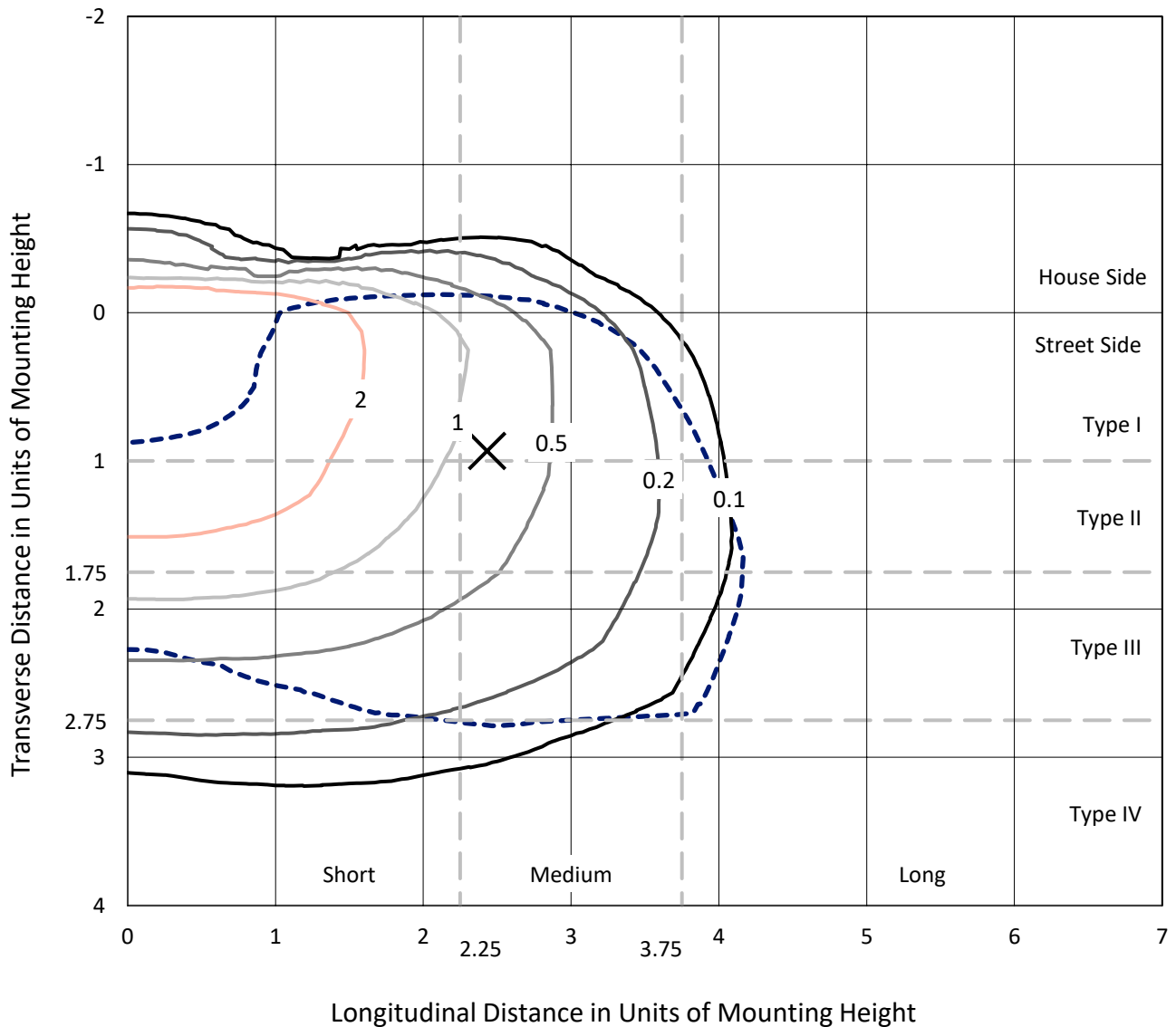
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

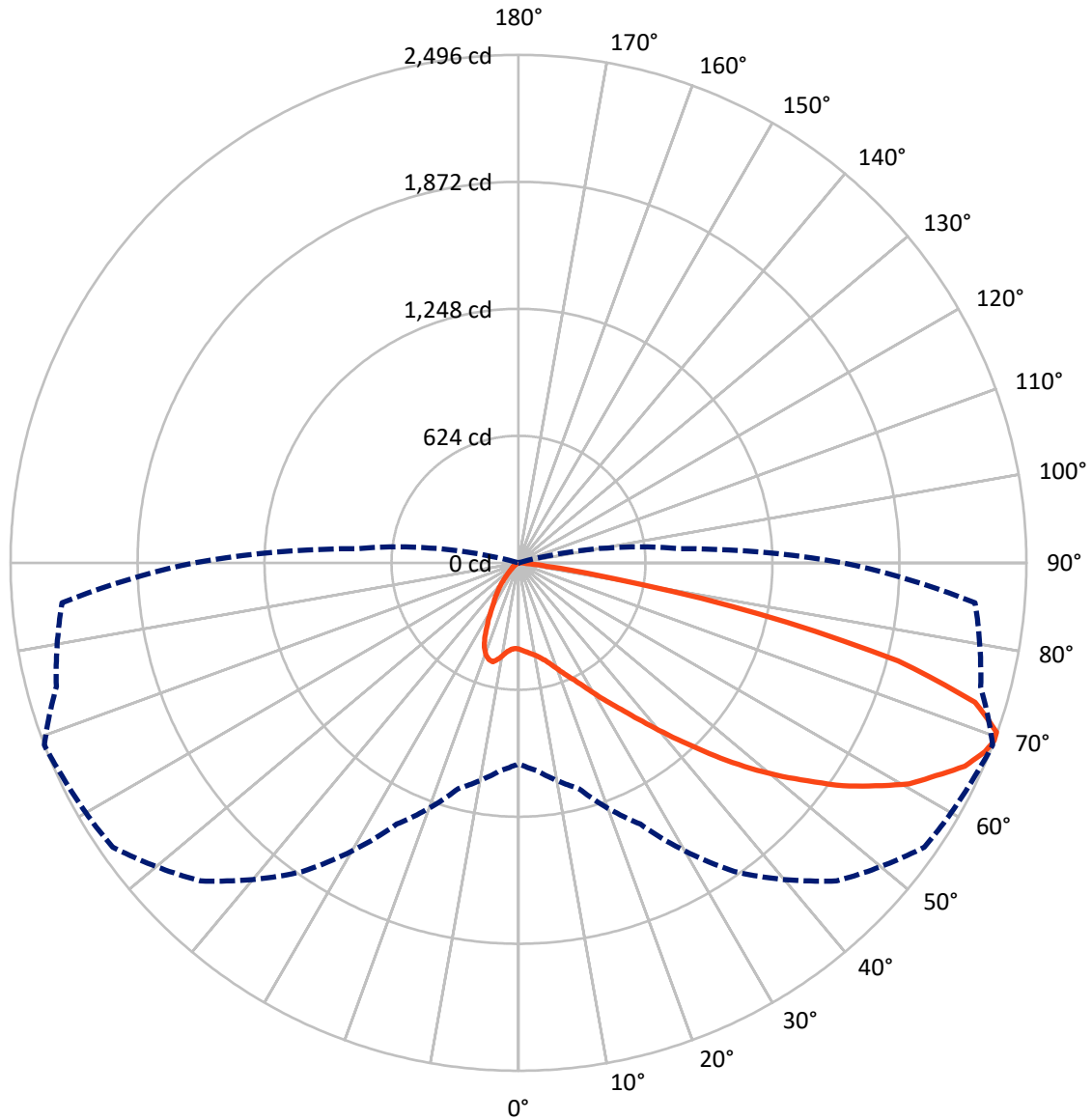
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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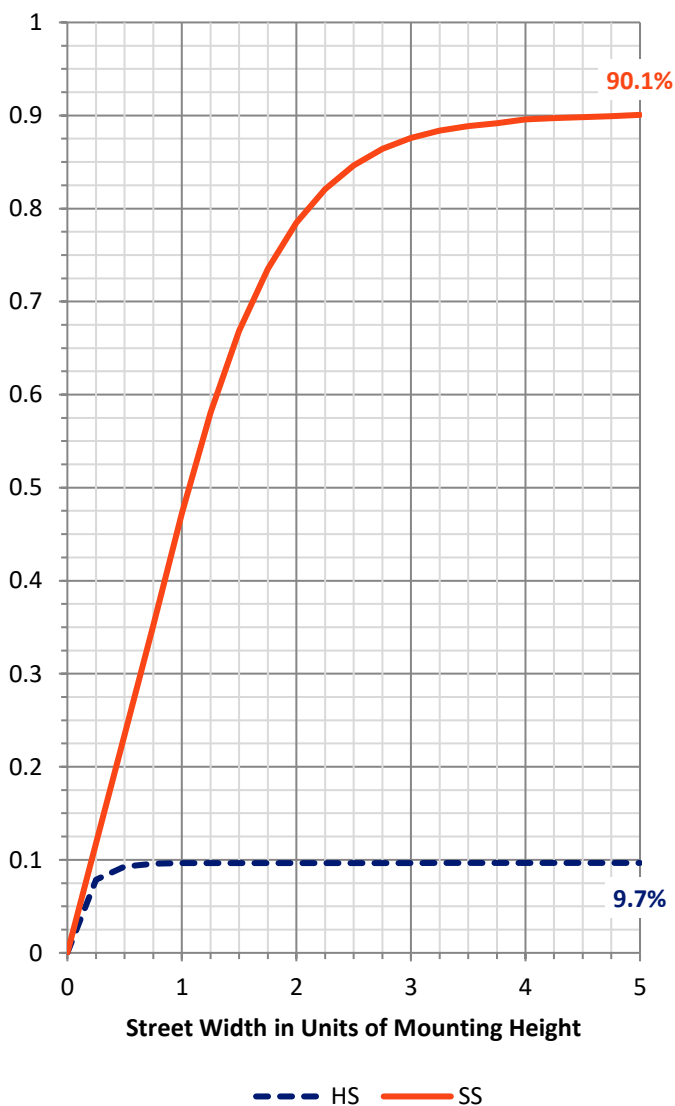
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	371.5	0.0	371.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	3440.6	0.0	3440.6
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	3812.0	0.0	3812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.4	1.1
10°-20°	107.0	2.8
20°-30°	178.1	4.7
30°-40°	320.7	8.4
40°-50°	581.4	15.3
50°-60°	908.6	23.8
60°-70°	1051.2	27.6
70°-80°	587.9	15.4
80°-90°	36.7	1.0
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°	3812.0	100.0
0°-180°	3812.0	100.0

**Coefficient of Utilization**

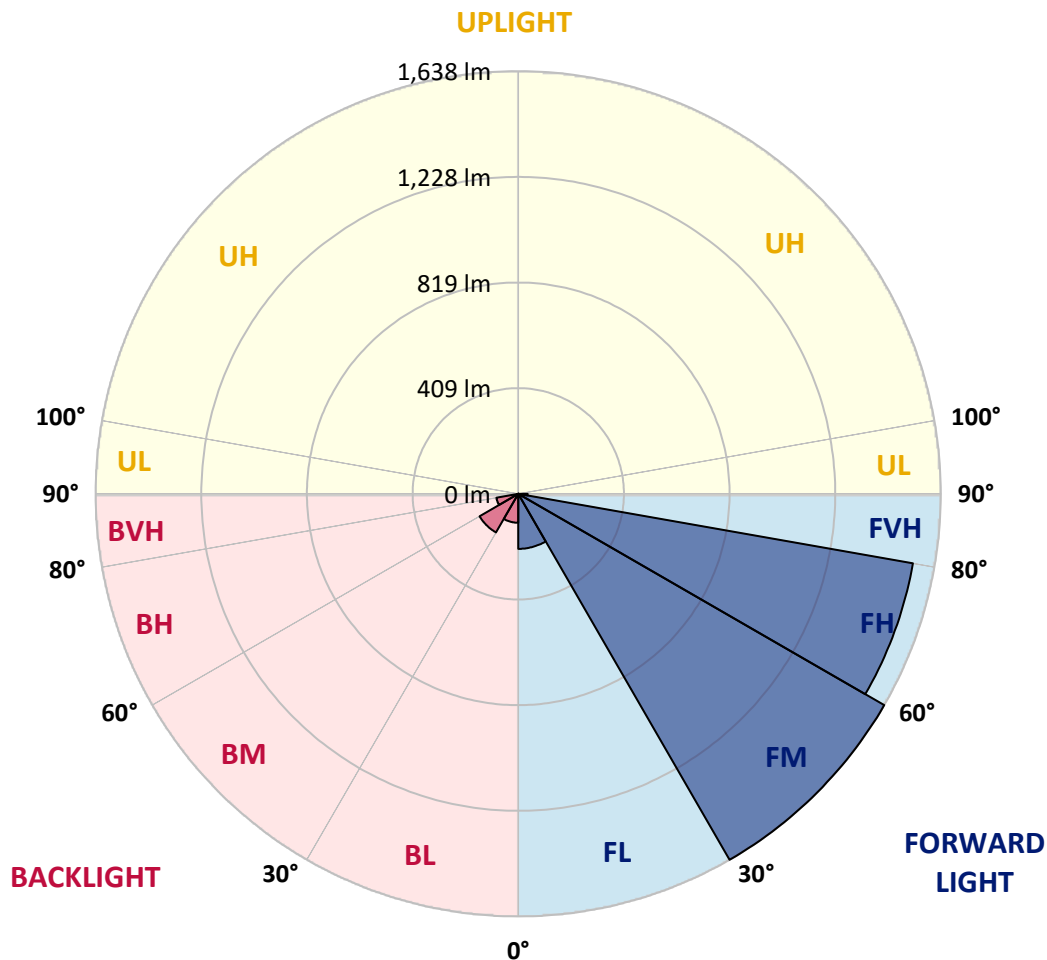


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	213.3	5.6			
FM (30°-60°)	1637.8	43.0			
FH (60°-80°)	1553.1	40.7			G1/1800
FVH (80°-90°)	36.4	1.0			G1/100
BL (0°-30°)	112.3	2.9	B1/500		
BM (30°-60°)	172.9	4.5	B0/220		
BH (60°-80°)	86.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0
2.5°	439.3	439.3	439.3	436.7	438.0	436.7	435.4	431.6	432.9	431.6	427.8
5°	424.0	425.3	429.1	431.6	438.0	440.5	441.8	441.8	440.5	438.0	435.4
7.5°	394.8	394.8	398.6	406.3	418.9	432.9	444.3	450.7	452.0	452.0	448.1
10°	387.2	387.2	392.3	397.4	410.1	426.6	444.3	459.6	462.1	464.6	463.4
12.5°	383.4	384.7	389.7	398.6	415.1	430.4	449.4	471.0	478.6	485.0	486.2
15°	388.5	388.5	393.6	402.4	421.5	443.1	467.2	491.3	498.9	507.8	514.2
17.5°	396.1	398.6	401.2	410.1	427.8	454.5	486.2	518.0	526.9	538.3	543.4
20°	408.8	408.8	411.3	418.9	438.0	469.7	514.2	552.2	559.9	567.5	573.8
22.5°	424.0	425.3	425.3	431.6	453.2	487.5	538.3	585.3	597.9	601.8	604.3
25°	469.7	467.2	458.3	454.5	471.0	507.8	567.5	624.6	638.6	642.4	637.3
27.5°	564.9	554.8	530.7	505.3	502.7	539.6	606.8	674.1	689.4	690.6	672.9
30°	684.3	685.5	646.2	591.6	554.8	573.8	650.0	736.3	751.6	745.2	717.3
32.5°	831.5	825.2	796.0	717.3	643.7	627.1	697.0	801.1	818.8	808.7	771.9
35°	957.2	961.0	925.5	855.7	763.0	709.7	754.1	873.4	895.0	877.2	831.5
37.5°	1062.6	1067.7	1046.1	989.0	906.4	822.7	829.0	958.5	987.7	969.9	912.8
40°	1179.4	1183.2	1174.3	1112.1	1038.5	957.2	929.3	1056.3	1095.6	1071.5	1011.8
42.5°	1307.6	1321.6	1306.3	1256.8	1180.7	1110.8	1068.9	1175.6	1214.9	1199.7	1119.7
45°	1482.8	1484.1	1466.3	1416.8	1338.1	1281.0	1230.2	1302.5	1353.3	1334.3	1240.3
47.5°	1612.3	1621.2	1611.0	1576.8	1513.3	1475.2	1405.4	1442.2	1495.5	1471.4	1364.7
50°	1711.3	1735.5	1726.6	1736.7	1705.0	1688.5	1581.8	1586.9	1639.0	1618.7	1491.7
52.5°	1765.9	1796.4	1798.9	1851.0	1877.6	1918.3	1753.2	1745.6	1778.6	1760.8	1621.2
55°	1758.3	1765.9	1829.4	1924.6	2028.7	2121.4	1920.8	1889.1	1934.8	1885.3	1758.3
57.5°	1684.7	1703.7	1815.4	1933.5	2117.6	2252.1	2065.5	2030.0	2068.1	2002.1	1899.2
60°	1579.3	1607.2	1750.7	1919.5	2169.6	2330.9	2206.4	2170.9	2205.2	2125.2	2059.2
62.5°	1484.1	1496.8	1628.8	1861.1	2139.2	2327.1	2315.6	2282.6	2302.9	2219.1	2196.3
65°	1348.2	1353.3	1484.1	1755.8	2071.9	2301.7	2375.3	2388.0	2409.6	2297.9	2294.0
67.5°	1138.8	1150.2	1279.7	1571.7	1960.2	2252.1	2422.3	2447.7	2473.0	2339.7	2311.8
69°	987.7	1024.5	1148.9	1416.8	1852.2	2210.3	2435.0	2475.6	2495.9	2351.2	2252.1
70°	864.6	896.3	1039.7	1297.5	1757.0	2163.3	2443.8	2471.8	2492.1	2327.1	2154.4
72.5°	434.2	474.8	671.6	947.1	1396.5	1948.7	2398.1	2367.7	2346.1	2140.4	1743.1
75°	167.6	173.9	288.2	539.6	873.4	1430.8	2047.8	1990.6	1927.1	1623.7	1033.4
77.5°	92.7	91.4	125.7	238.7	372.0	699.5	1385.1	1293.7	1206.1	872.2	418.9
80°	39.4	41.9	54.6	114.3	195.5	242.5	672.9	597.9	476.1	276.8	100.3
82.5°	24.1	25.4	38.1	69.8	135.8	92.7	218.4	186.6	137.1	74.9	24.1
85°	7.6	8.9	26.7	47.0	66.0	38.1	49.5	43.2	38.1	31.7	7.6
87.5°	1.3	1.3	10.2	25.4	17.8	6.3	5.1	8.9	14.0	15.2	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°	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0	424.0
2.5°	426.6	424.0	421.5	420.2	420.2	417.7	416.4	415.1	415.1	413.9	413.9
5°	431.6	429.1	426.6	425.3	422.8	421.5	421.5	421.5	420.2	421.5	422.8
7.5°	444.3	440.5	439.3	438.0	438.0	434.2	427.8	411.3	394.8	389.7	384.7
10°	462.1	460.8	460.8	460.8	452.0	418.9	373.2	332.6	311.0	293.3	293.3
12.5°	487.5	487.5	486.2	482.4	436.7	356.7	285.6	224.7	189.2	168.8	171.4
15°	515.4	514.2	516.7	492.6	384.7	275.5	172.7	121.9	102.8	100.3	100.3
17.5°	544.6	547.2	544.6	465.9	316.1	170.1	102.8	92.7	90.1	90.1	90.1
20°	575.1	572.6	568.8	420.2	229.8	106.6	88.9	86.3	83.8	82.5	82.5
22.5°	605.6	603.0	577.6	361.8	143.5	87.6	83.8	78.7	74.9	73.6	73.6
25°	634.8	634.8	561.1	286.9	97.8	82.5	76.2	71.1	67.3	63.5	63.5
27.5°	671.6	674.1	534.5	200.6	82.5	76.2	68.6	60.9	55.9	53.3	53.3
30°	713.5	717.3	491.3	130.8	74.9	67.3	59.7	50.8	43.2	40.6	39.4
32.5°	763.0	766.8	441.8	86.3	67.3	58.4	49.5	38.1	30.5	29.2	27.9
35°	826.5	817.6	382.1	68.6	58.4	49.5	38.1	26.7	21.6	20.3	20.3
37.5°	905.2	886.1	313.6	59.7	49.5	39.4	27.9	17.8	14.0	14.0	12.7
40°	995.3	942.0	242.5	53.3	41.9	30.5	17.8	11.4	8.9	8.9	8.9
42.5°	1094.3	989.0	172.7	47.0	34.3	21.6	11.4	6.3	5.1	5.1	5.1
45°	1208.6	1032.1	118.1	40.6	29.2	15.2	6.3	2.5	2.5	2.5	2.5
47.5°	1322.9	1060.1	78.7	35.5	21.6	8.9	3.8	1.3	1.3	1.3	1.3
50°	1438.4	1081.6	60.9	30.5	15.2	5.1	1.3	0.0	0.0	0.0	0.0
52.5°	1541.2	1096.9	49.5	25.4	10.2	3.8	1.3	0.0	0.0	0.0	0.0
55°	1630.1	1098.1	43.2	20.3	7.6	2.5	0.0	0.0	0.0	0.0	0.0
57.5°	1720.2	1088.0	36.8	15.2	5.1	1.3	0.0	0.0	0.0	0.0	0.0
60°	1774.8	1061.3	29.2	11.4	3.8	1.3	0.0	0.0	0.0	0.0	0.0
62.5°	1807.8	1016.9	22.9	7.6	2.5	1.3	0.0	0.0	0.0	0.0	0.0
65°	1788.8	961.0	16.5	5.1	2.5	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	1699.9	874.7	11.4	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0
69°	1594.5	796.0	10.2	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0
70°	1501.9	735.1	8.9	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1118.5	473.5	7.6	2.5	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	628.4	158.7	5.1	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	236.1	40.6	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.1	10.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.0	0.0	0.0	0.0	0.0	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)