

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: P594472

Luminaire Tested: **ISS-PA1A-740-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594472  
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-PA1A-740-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 350mA 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: 3083 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

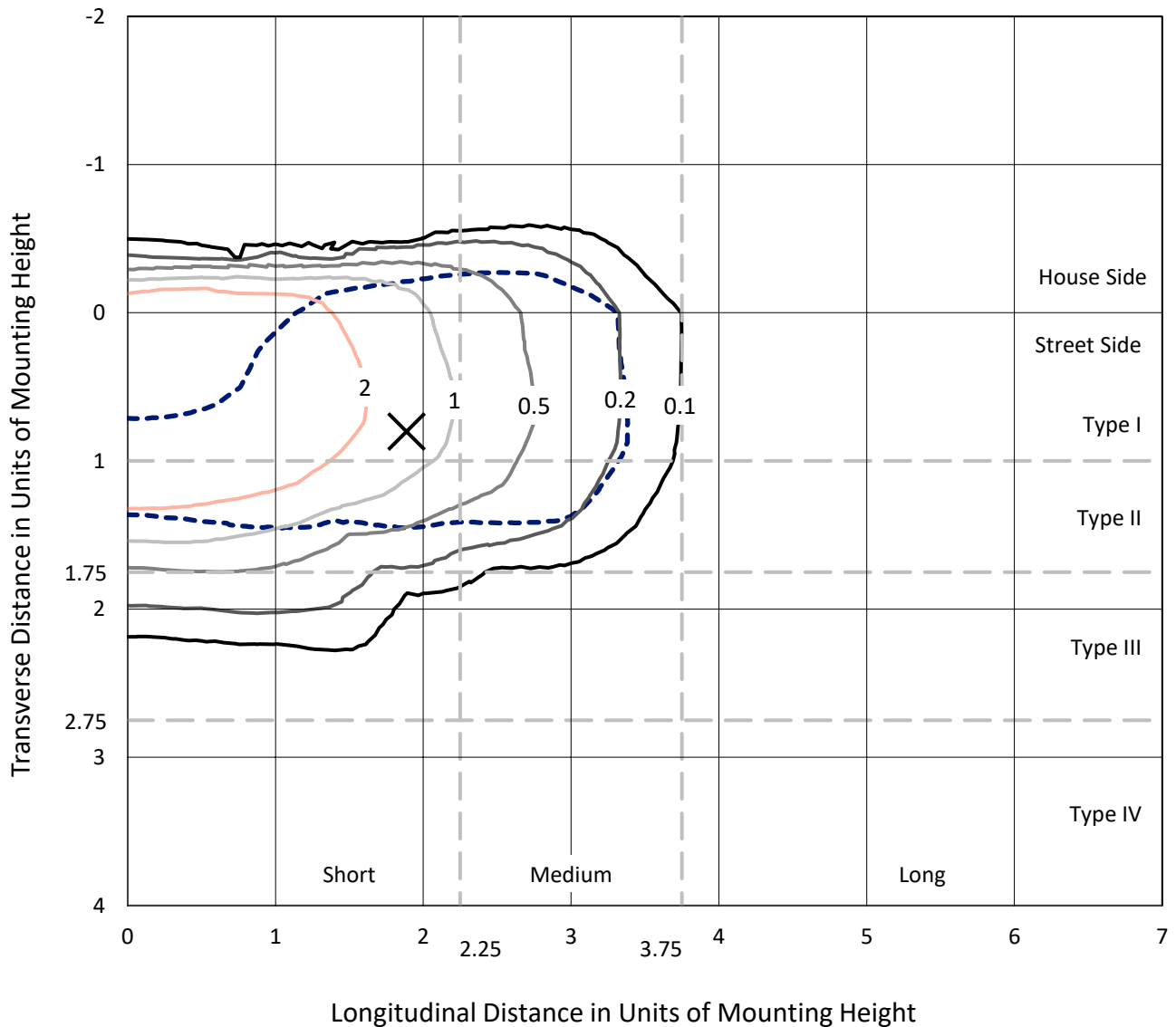
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

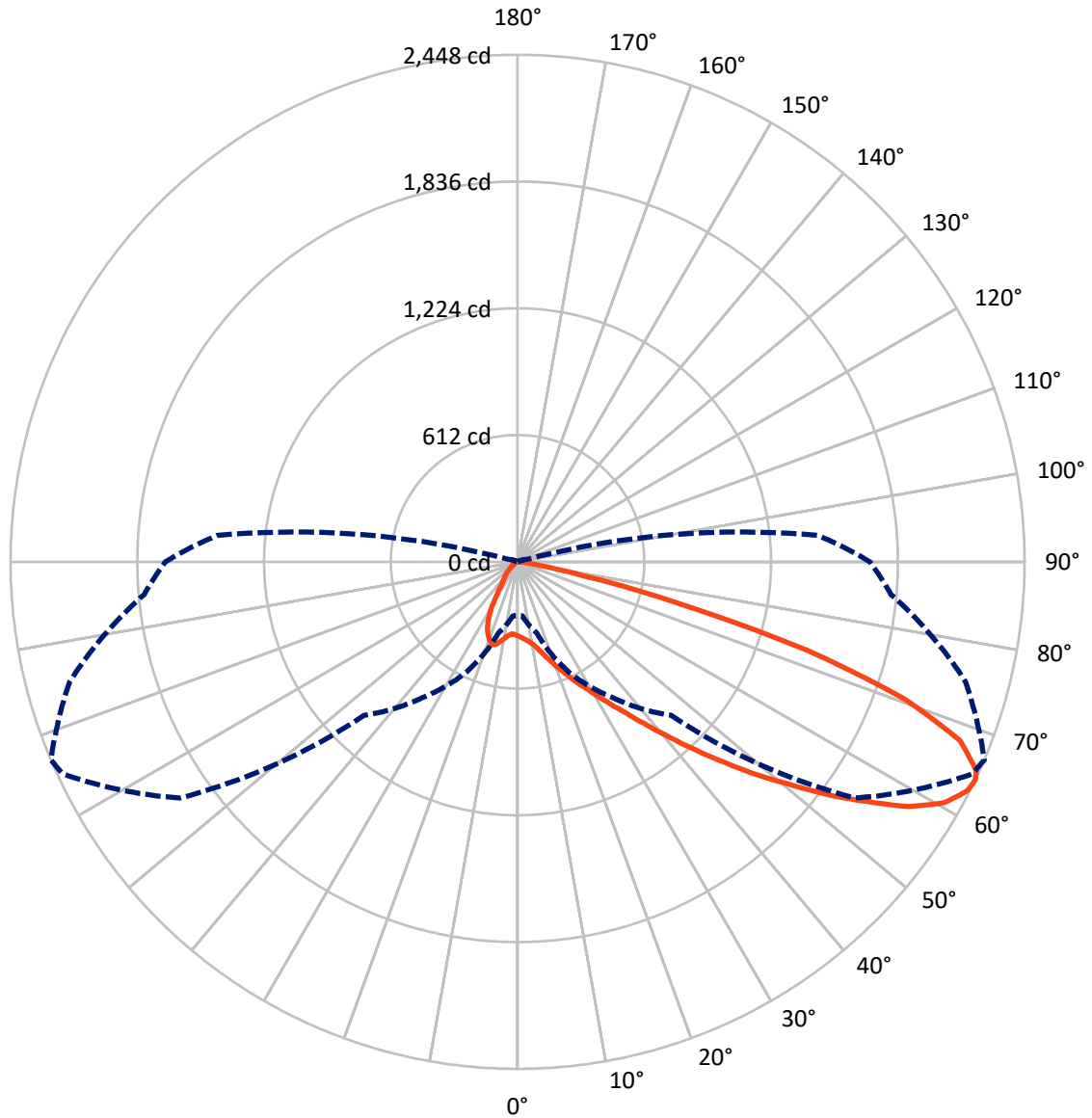
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 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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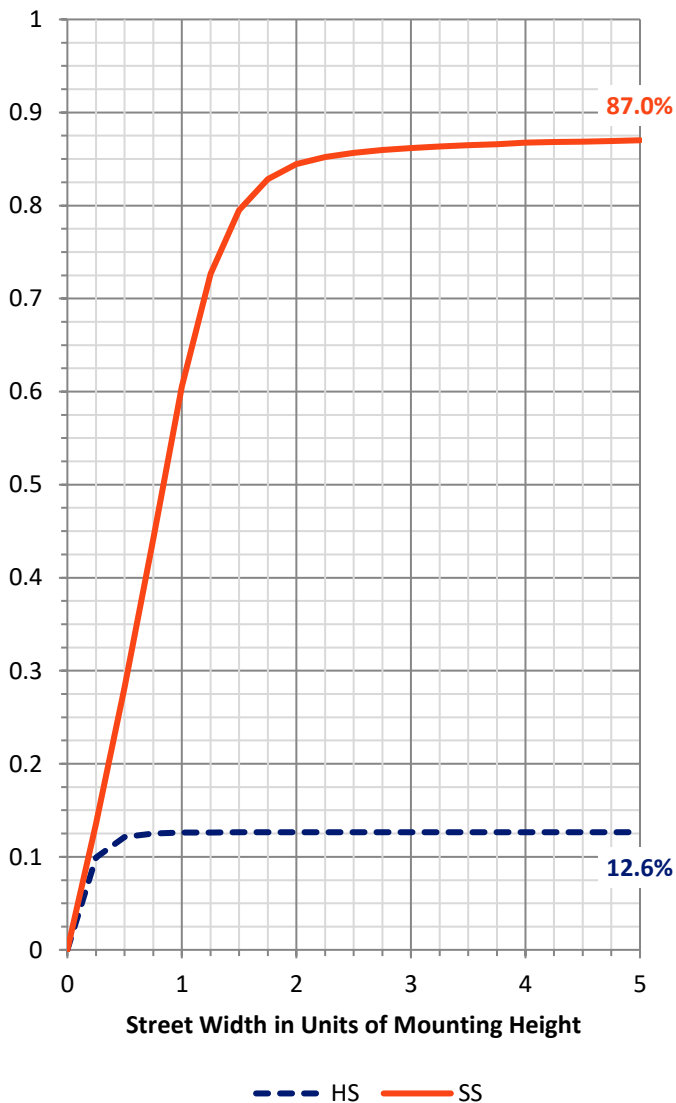
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	394.4	0.0	394.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2688.6	0.0	2688.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3083.0	0.0	3083.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.0	1.1
10°-20°	100.3	3.3
20°-30°	182.0	5.9
30°-40°	348.6	11.3
40°-50°	642.5	20.8
50°-60°	829.9	26.9
60°-70°	679.7	22.0
70°-80°	249.9	8.1
80°-90°	16.1	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°	3083.0	100.0
0°-180°	3083.0	100.0

**Coefficient of Utilization**



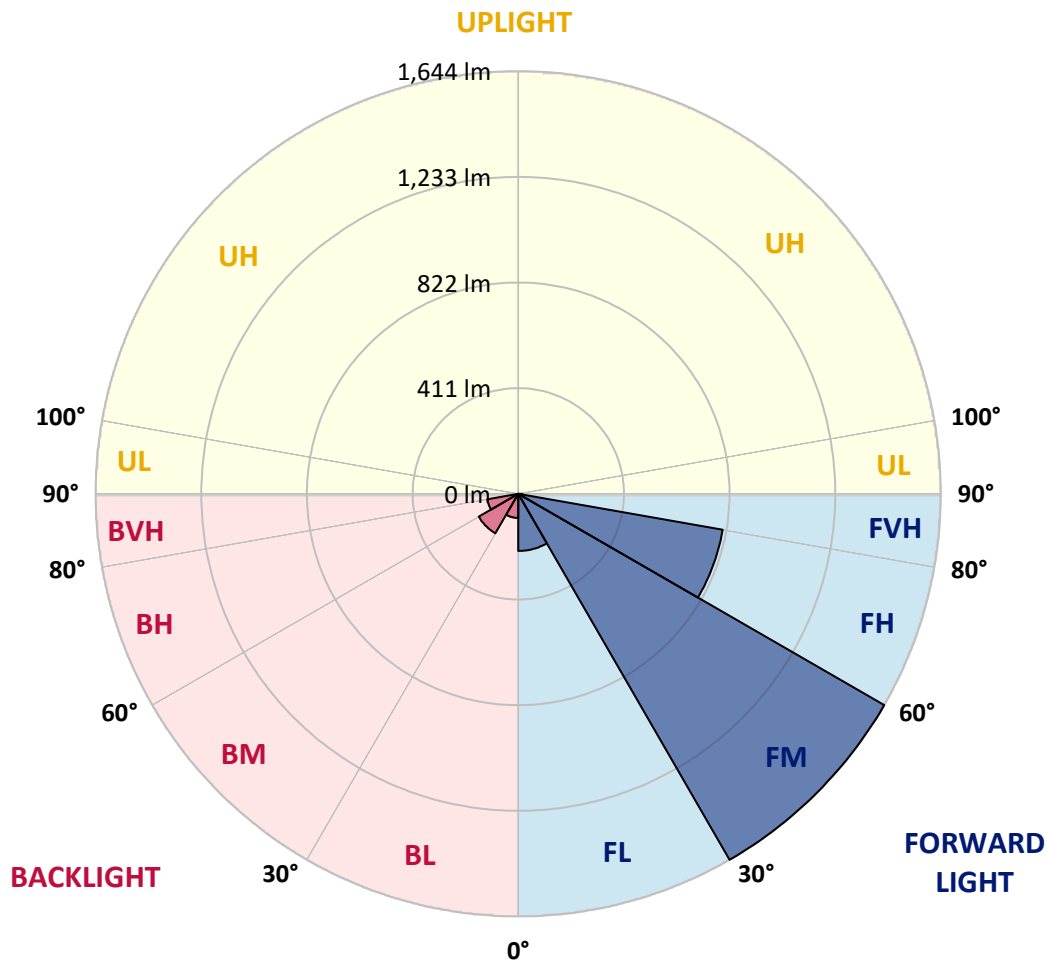
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.3	7.2			
FM (30°-60°)	1643.7	53.3			
FH (60°-80°)	807.3	26.2			G1/1800
FVH (80°-90°)	15.4	0.5			G1/100
BL (0°-30°)	94.0	3.0	B0/110		
BM (30°-60°)	177.3	5.8	B0/220		
BH (60°-80°)	122.4	4.0	B1/500		G1/500
BVH (80°-90°)	0.7	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°	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2
2.5°	370.9	370.9	373.1	372.0	372.0	369.9	366.7	367.8	366.7	365.6	362.5
5°	364.6	365.6	366.7	368.8	373.1	375.2	375.2	376.2	376.2	375.2	370.9
7.5°	361.4	363.5	365.6	367.8	373.1	376.2	381.5	387.9	387.9	389.0	384.7
10°	373.1	375.2	378.4	381.5	386.8	392.1	396.4	403.8	403.8	405.9	404.9
12.5°	397.4	397.4	398.5	400.6	408.0	414.4	421.8	428.2	429.2	430.3	427.1
15°	427.1	427.1	428.2	428.2	432.4	442.0	455.7	462.1	461.0	460.0	453.6
17.5°	461.0	461.0	461.0	462.1	464.2	469.5	485.4	498.1	497.1	496.0	483.3
20°	492.8	495.0	497.1	498.1	500.2	504.5	521.4	536.3	539.5	535.2	513.0
22.5°	528.9	529.9	531.0	534.2	539.5	541.6	558.5	580.8	584.0	578.7	549.0
25°	564.9	567.0	570.2	574.4	579.7	590.3	602.0	631.7	634.9	628.5	588.2
27.5°	644.4	643.3	633.8	626.4	627.4	634.9	650.7	682.5	685.7	679.4	627.4
30°	780.0	767.3	749.3	716.5	684.7	687.8	710.1	740.8	746.1	737.7	670.9
32.5°	972.9	960.2	915.7	843.6	773.7	750.4	779.0	808.7	815.0	805.5	721.8
35°	1160.5	1157.4	1115.0	1028.1	909.4	844.7	852.1	890.3	892.4	880.7	785.3
37.5°	1392.6	1381.0	1322.7	1225.2	1085.3	969.8	948.6	984.6	989.9	976.1	862.7
40°	1546.3	1542.1	1507.1	1438.2	1287.7	1142.5	1066.2	1101.2	1100.1	1080.0	951.7
42.5°	1635.3	1637.5	1635.3	1602.5	1516.6	1350.2	1222.0	1224.1	1227.3	1206.1	1054.6
45°	1695.8	1695.8	1698.9	1725.4	1692.6	1598.3	1411.7	1364.0	1368.3	1335.4	1161.6
47.5°	1694.7	1701.1	1718.0	1779.5	1824.0	1829.3	1649.1	1527.2	1525.1	1475.3	1271.8
50°	1580.2	1576.0	1645.9	1783.7	1917.3	2020.1	1873.8	1700.0	1682.0	1620.5	1386.3
52.5°	1322.7	1336.5	1453.1	1655.5	1939.5	2149.4	2067.8	1888.7	1865.3	1764.7	1487.0
55°	1098.0	1112.8	1226.2	1424.4	1818.7	2194.9	2198.1	2089.0	2042.3	1889.7	1590.8
57.5°	824.6	853.2	1020.6	1207.2	1553.7	2081.5	2244.8	2280.8	2229.9	2010.5	1675.6
60°	526.7	543.7	731.3	961.3	1259.1	1784.8	2235.2	2392.1	2364.5	2120.8	1746.6
62.5°	344.5	354.0	483.3	723.9	959.2	1344.9	2121.8	2436.6	2436.6	2194.9	1799.6
64°	259.7	261.8	354.0	588.2	800.2	1048.2	1988.3	2422.8	2448.3	2239.5	1810.2
65°	205.6	206.7	276.6	488.6	718.6	859.5	1871.7	2393.1	2434.5	2256.4	1816.6
67.5°	144.1	147.3	179.1	281.9	515.1	496.0	1387.3	2253.2	2304.1	2261.7	1808.1
70°	125.1	129.3	150.5	184.4	367.8	288.3	737.7	1920.4	1980.9	2107.0	1683.0
72.5°	95.4	100.7	126.1	155.8	258.6	195.0	285.1	1364.0	1459.4	1629.0	1389.5
75°	68.9	71.0	93.3	127.2	181.2	150.5	122.9	703.7	800.2	961.3	863.8
77.5°	43.5	46.6	63.6	95.4	162.2	114.5	73.1	256.5	323.3	418.6	377.3
80°	25.4	26.5	38.2	65.7	109.2	84.8	46.6	91.1	110.2	155.8	100.7
82.5°	14.8	15.9	24.4	44.5	71.0	65.7	29.7	46.6	51.9	59.4	21.2
85°	5.3	5.3	17.0	26.5	38.2	32.9	17.0	24.4	26.5	32.9	6.4
87.5°	1.1	1.1	8.5	13.8	13.8	5.3	8.5	10.6	12.7	18.0	2.1
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°	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2	358.2
2.5°	361.4	358.2	355.0	350.8	347.6	341.3	338.1	333.9	332.8	330.7	329.6
5°	369.9	364.6	357.2	346.6	340.2	330.7	324.3	318.0	316.9	314.8	313.7
7.5°	381.5	376.2	366.7	355.0	344.5	334.9	327.5	318.0	308.4	301.0	301.0
10°	400.6	394.3	381.5	370.9	358.2	338.1	303.1	271.3	251.2	238.5	234.2
12.5°	423.9	415.5	401.7	389.0	364.6	301.0	246.9	205.6	171.7	155.8	152.6
15°	448.3	440.9	427.1	408.0	334.9	251.2	180.2	116.6	83.7	68.9	71.0
17.5°	474.8	464.2	448.3	410.2	294.6	187.6	96.4	59.4	50.9	48.8	48.8
20°	502.4	488.6	472.7	386.8	242.7	108.1	55.1	44.5	41.3	38.2	39.2
22.5°	532.0	515.1	490.7	351.9	173.8	58.3	42.4	36.0	31.8	30.7	30.7
25°	563.8	539.5	508.7	311.6	100.7	44.5	35.0	28.6	25.4	24.4	23.3
27.5°	597.8	567.0	513.0	258.6	57.2	37.1	27.6	22.3	19.1	18.0	18.0
30°	628.5	594.6	503.4	191.8	43.5	30.7	22.3	17.0	14.8	14.8	14.8
32.5°	669.8	625.3	473.8	119.8	35.0	24.4	17.0	13.8	11.7	11.7	11.7
35°	723.9	670.9	444.1	63.6	28.6	20.1	13.8	10.6	9.5	9.5	9.5
37.5°	798.1	731.3	417.6	40.3	23.3	15.9	10.6	8.5	7.4	7.4	7.4
40°	874.4	803.4	380.5	30.7	19.1	12.7	8.5	6.4	5.3	5.3	6.4
42.5°	969.8	887.1	338.1	26.5	15.9	10.6	6.4	4.2	3.2	4.2	4.2
45°	1066.2	975.1	278.7	22.3	13.8	8.5	4.2	2.1	2.1	3.2	3.2
47.5°	1165.8	1068.3	216.2	19.1	11.7	6.4	3.2	1.1	1.1	2.1	2.1
50°	1268.6	1160.5	161.1	17.0	9.5	5.3	2.1	1.1	0.0	1.1	1.1
52.5°	1371.4	1249.6	125.1	14.8	8.5	4.2	1.1	0.0	0.0	0.0	1.1
55°	1466.8	1330.1	99.6	12.7	7.4	3.2	1.1	0.0	0.0	0.0	0.0
57.5°	1547.4	1389.5	79.5	11.7	6.4	2.1	1.1	0.0	0.0	0.0	0.0
60°	1623.7	1436.1	61.5	9.5	5.3	2.1	1.1	0.0	0.0	0.0	0.0
62.5°	1677.7	1454.1	49.8	8.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
64°	1701.1	1456.2	43.5	7.4	4.2	2.1	1.1	0.0	0.0	0.0	0.0
65°	1714.8	1449.9	40.3	7.4	4.2	2.1	1.1	0.0	0.0	0.0	0.0
67.5°	1718.0	1414.9	30.7	6.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0
70°	1624.8	1293.0	22.3	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1357.7	987.8	14.8	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	847.9	427.1	8.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	350.8	129.3	5.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	80.5	30.7	2.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.1	5.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	1.1	1.1	1.1	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)