

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: P594471

Luminaire Tested: **ISS-PA1A-740-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
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-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4296 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

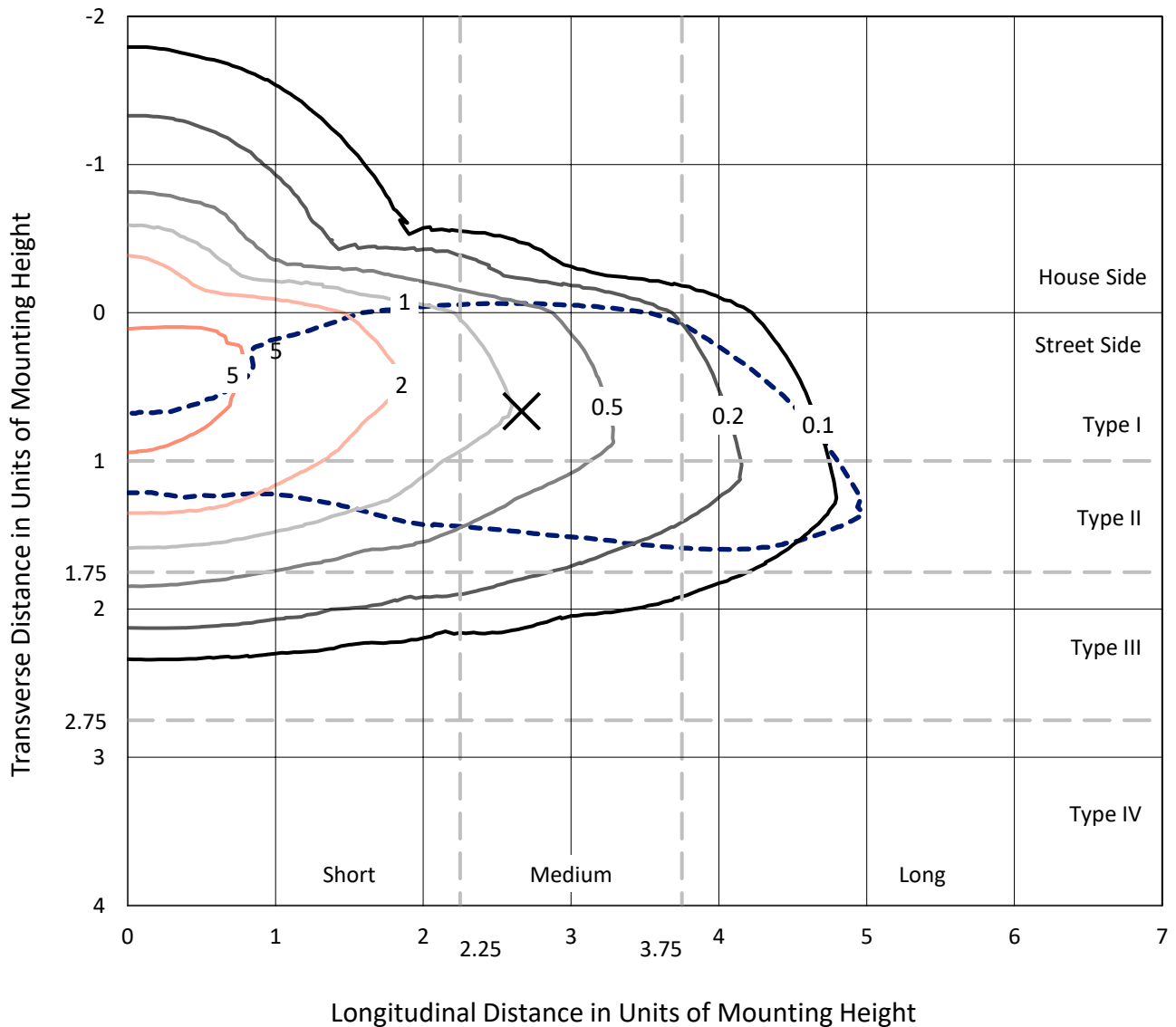
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

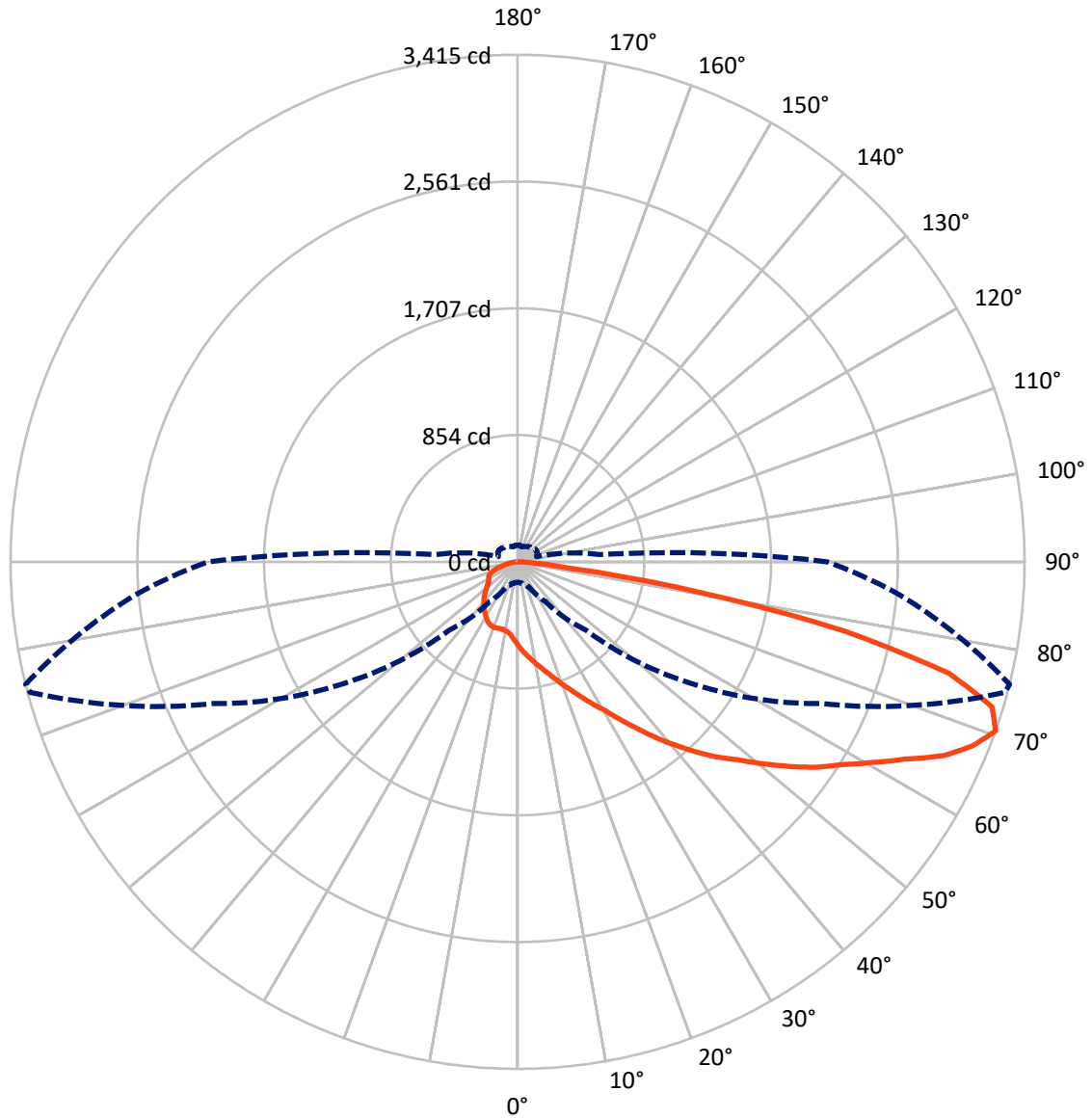
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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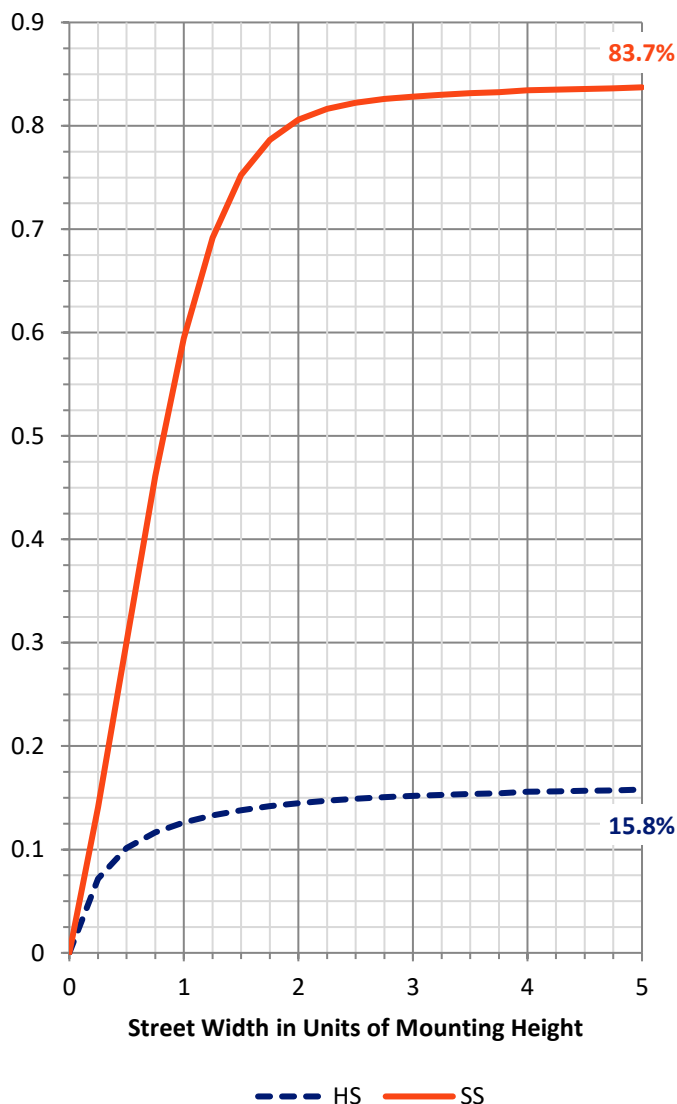
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	689.0	0.0	689.0
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	3607.0	0.0	3607.0
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	4296.0	0.0	4296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.9	1.3
10°-20°	181.3	4.2
20°-30°	334.0	7.8
30°-40°	559.7	13.0
40°-50°	795.2	18.5
50°-60°	918.1	21.4
60°-70°	844.0	19.6
70°-80°	532.2	12.4
80°-90°	76.5	1.8
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°	4296.0	100.0
0°-180°	4296.0	100.0

**Coefficient of Utilization**

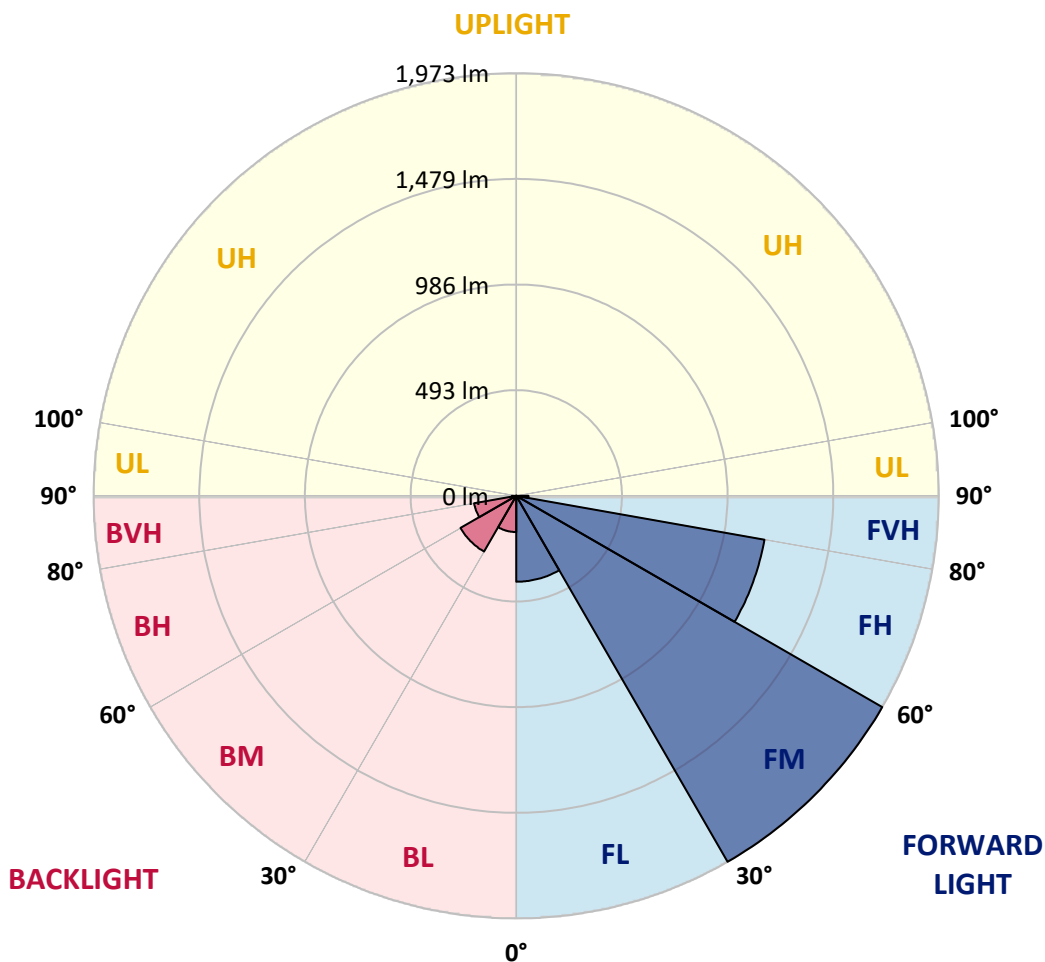


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.1	9.3			
FM (30°-60°)	1972.6	45.9			
FH (60°-80°)	1176.5	27.4			G1/1800
FVH (80°-90°)	56.7	1.3			G1/100
BL (0°-30°)	169.1	3.9	B1/500		
BM (30°-60°)	300.4	7.0	B1/1000		
BH (60°-80°)	199.7	4.6	B1/500		G1/500
BVH (80°-90°)	19.8	0.5			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	678.4	677.3	674.2	669.0	664.9	652.5	636.0	621.5	599.8	597.7	576.0
5°	739.4	735.2	735.2	730.1	724.9	711.4	690.8	664.9	633.9	631.8	590.5
7.5°	768.3	769.4	767.3	763.1	764.2	752.8	734.2	708.3	665.9	663.9	610.1
10°	809.7	808.6	804.5	801.4	800.4	790.0	773.5	749.7	705.2	701.1	632.9
12.5°	850.0	846.9	847.9	846.9	844.8	834.5	819.0	795.2	740.4	738.3	660.8
15°	872.8	871.7	879.0	881.0	889.3	880.0	866.6	839.7	790.0	781.8	693.9
17.5°	887.2	886.2	893.4	910.0	925.5	925.5	921.4	892.4	837.6	831.4	731.1
20°	912.1	916.2	928.6	942.0	964.8	968.9	967.9	955.5	892.4	886.2	772.5
22.5°	961.7	959.6	970.0	990.6	1011.3	1017.5	1018.6	1018.6	955.5	944.1	814.9
25°	1068.2	1063.0	1054.8	1052.7	1077.5	1076.5	1073.4	1080.6	1021.7	1013.4	863.5
27.5°	1270.9	1259.5	1227.4	1163.3	1148.9	1154.0	1138.5	1139.6	1097.2	1086.8	904.8
30°	1463.2	1458.0	1428.1	1350.5	1268.8	1239.9	1213.0	1201.6	1180.9	1163.3	949.3
32.5°	1636.9	1638.0	1601.8	1517.0	1433.2	1342.2	1295.7	1271.9	1280.2	1264.7	1010.3
35°	1754.8	1745.5	1722.8	1665.9	1574.9	1488.0	1399.1	1346.4	1390.8	1373.3	1071.3
37.5°	1824.1	1816.9	1798.3	1757.9	1712.4	1628.7	1516.0	1435.3	1522.2	1496.3	1148.9
40°	1859.3	1848.9	1830.3	1813.8	1792.1	1746.6	1647.3	1536.6	1642.1	1619.4	1225.4
42.5°	1863.4	1856.2	1845.8	1837.6	1844.8	1838.6	1775.5	1654.5	1768.3	1743.5	1313.3
45°	1860.3	1865.5	1853.1	1838.6	1853.1	1905.8	1905.8	1772.4	1893.4	1874.8	1397.0
47.5°	1862.4	1857.2	1853.1	1848.9	1851.0	1923.4	1995.8	1883.1	2013.3	1991.6	1495.3
50°	1776.5	1783.8	1818.9	1834.4	1843.8	1927.5	2068.2	2003.0	2162.3	2135.4	1604.9
52.5°	1503.5	1507.7	1668.0	1783.8	1821.0	1911.0	2118.8	2136.4	2309.1	2288.4	1722.8
55°	1158.2	1179.9	1331.9	1615.2	1769.3	1883.1	2134.3	2223.3	2459.0	2442.5	1841.7
57.5°	953.4	956.5	1044.4	1297.8	1605.9	1857.2	2149.8	2302.9	2593.5	2574.8	1965.8
60°	791.1	783.8	837.6	1001.0	1334.0	1753.8	2152.9	2366.0	2749.6	2743.4	2094.0
62.5°	581.2	589.4	641.1	779.7	1043.4	1543.9	2137.4	2419.7	2935.7	2927.5	2236.7
65°	356.8	367.1	430.2	557.4	790.0	1225.4	2036.1	2447.7	3131.2	3149.8	2390.8
67.5°	189.2	196.5	233.7	337.1	541.9	933.8	1792.1	2412.5	3296.6	3304.9	2538.7
70°	138.6	139.6	152.0	190.3	326.8	649.4	1427.0	2259.5	3398.0	3414.5	2587.3
72.5°	121.0	122.0	127.2	136.5	177.9	396.1	1022.7	1992.7	3355.6	3341.1	2505.6
75°	109.6	109.6	113.7	116.9	130.3	219.2	626.6	1630.7	3031.9	2999.9	2136.4
77.5°	94.1	94.1	98.2	102.4	112.7	141.7	327.8	1208.8	2318.4	2263.6	1461.1
80°	75.5	75.5	80.7	85.8	99.3	106.5	160.3	808.6	1325.7	1245.0	664.9
82.5°	51.7	55.8	65.1	71.4	82.7	75.5	94.1	349.5	417.8	361.9	149.9
85°	31.0	33.1	46.5	53.8	62.0	40.3	57.9	134.4	125.1	109.6	34.1
87.5°	3.1	5.2	18.6	21.7	21.7	11.4	24.8	32.1	36.2	37.2	8.3
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°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	563.6	551.2	527.4	505.7	483.9	469.5	455.0	449.8	442.6	437.4	441.6
5°	568.7	542.9	497.4	459.1	433.3	413.6	404.3	399.2	395.0	394.0	392.9
7.5°	574.9	536.7	475.7	433.3	408.5	399.2	397.1	397.1	397.1	398.1	399.2
10°	588.4	538.8	464.3	418.8	405.4	403.3	404.3	408.5	408.5	409.5	409.5
12.5°	603.9	543.9	456.0	416.7	408.5	409.5	410.5	412.6	412.6	415.7	414.7
15°	626.6	554.3	455.0	418.8	411.6	409.5	409.5	408.5	408.5	408.5	410.5
17.5°	655.6	568.7	456.0	418.8	408.5	404.3	401.2	398.1	394.0	396.1	394.0
20°	684.6	586.3	456.0	413.6	400.2	389.8	380.5	375.4	370.2	369.2	370.2
22.5°	720.8	607.0	450.9	402.3	382.6	368.1	354.7	347.4	339.2	336.1	334.0
25°	751.8	623.5	440.5	385.7	363.0	342.3	324.7	312.3	302.0	299.9	299.9
27.5°	783.8	638.0	425.0	365.0	335.0	312.3	292.6	277.1	266.8	265.8	264.7
30°	813.8	650.4	404.3	342.3	310.2	283.3	260.6	247.1	237.8	232.7	229.6
32.5°	853.1	667.0	384.7	319.5	281.3	254.4	233.7	222.3	209.9	201.6	198.5
35°	902.7	686.6	363.0	294.7	255.4	228.5	216.1	199.6	184.1	174.8	171.7
37.5°	958.6	714.5	340.2	268.9	229.6	209.9	202.7	176.8	160.3	157.2	156.1
40°	1027.9	741.4	314.4	242.0	204.7	199.6	187.2	160.3	152.0	151.0	149.9
42.5°	1097.2	770.4	289.5	215.1	185.1	187.2	169.6	156.1	148.9	146.8	145.8
45°	1177.8	799.3	264.7	191.3	169.6	169.6	160.3	152.0	145.8	143.7	143.7
47.5°	1262.6	828.3	237.8	170.6	158.2	152.0	153.0	146.8	142.7	140.6	139.6
50°	1369.1	856.2	213.0	156.1	151.0	142.7	145.8	141.7	139.6	137.5	136.5
52.5°	1469.4	868.6	190.3	147.9	146.8	138.6	139.6	137.5	136.5	133.4	132.4
55°	1567.7	865.5	172.7	143.7	141.7	137.5	135.5	134.4	133.4	130.3	129.3
57.5°	1677.3	861.4	161.3	142.7	138.6	134.4	134.4	131.3	127.2	127.2	127.2
60°	1791.0	847.9	156.1	142.7	137.5	134.4	132.4	129.3	125.1	126.2	125.1
62.5°	1919.2	822.1	153.0	145.8	138.6	133.4	131.3	127.2	122.0	123.1	122.0
65°	2032.0	769.4	151.0	148.9	140.6	134.4	129.3	124.1	117.9	118.9	117.9
67.5°	2108.5	680.4	144.8	151.0	143.7	133.4	127.2	120.0	111.7	115.8	114.8
70°	2086.8	553.2	133.4	146.8	146.8	134.4	124.1	114.8	105.5	113.7	110.6
72.5°	1918.2	415.7	111.7	132.4	144.8	134.4	117.9	106.5	98.2	103.4	97.2
75°	1574.9	282.3	88.9	105.5	135.5	135.5	112.7	98.2	87.9	84.8	82.7
77.5°	982.4	175.8	69.3	77.6	113.7	134.4	107.5	87.9	73.4	71.4	69.3
80°	388.8	94.1	54.8	55.8	83.8	123.1	100.3	74.5	58.9	56.9	52.7
82.5°	88.9	47.6	38.3	37.2	51.7	100.3	91.0	58.9	45.5	45.5	38.3
85°	26.9	24.8	24.8	23.8	25.9	51.7	70.3	40.3	31.0	21.7	18.6
87.5°	7.2	10.3	9.3	8.3	8.3	7.2	22.7	10.3	6.2	3.1	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

(END OF REPORT)