

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: P594452

Luminaire Tested: **ISS-PA1A-730-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594452  
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-PA1A-730-U-T2R-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 350mA 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: 3228 lumens  
Efficiency: N/A  
Efficacy: 111.7 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): 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

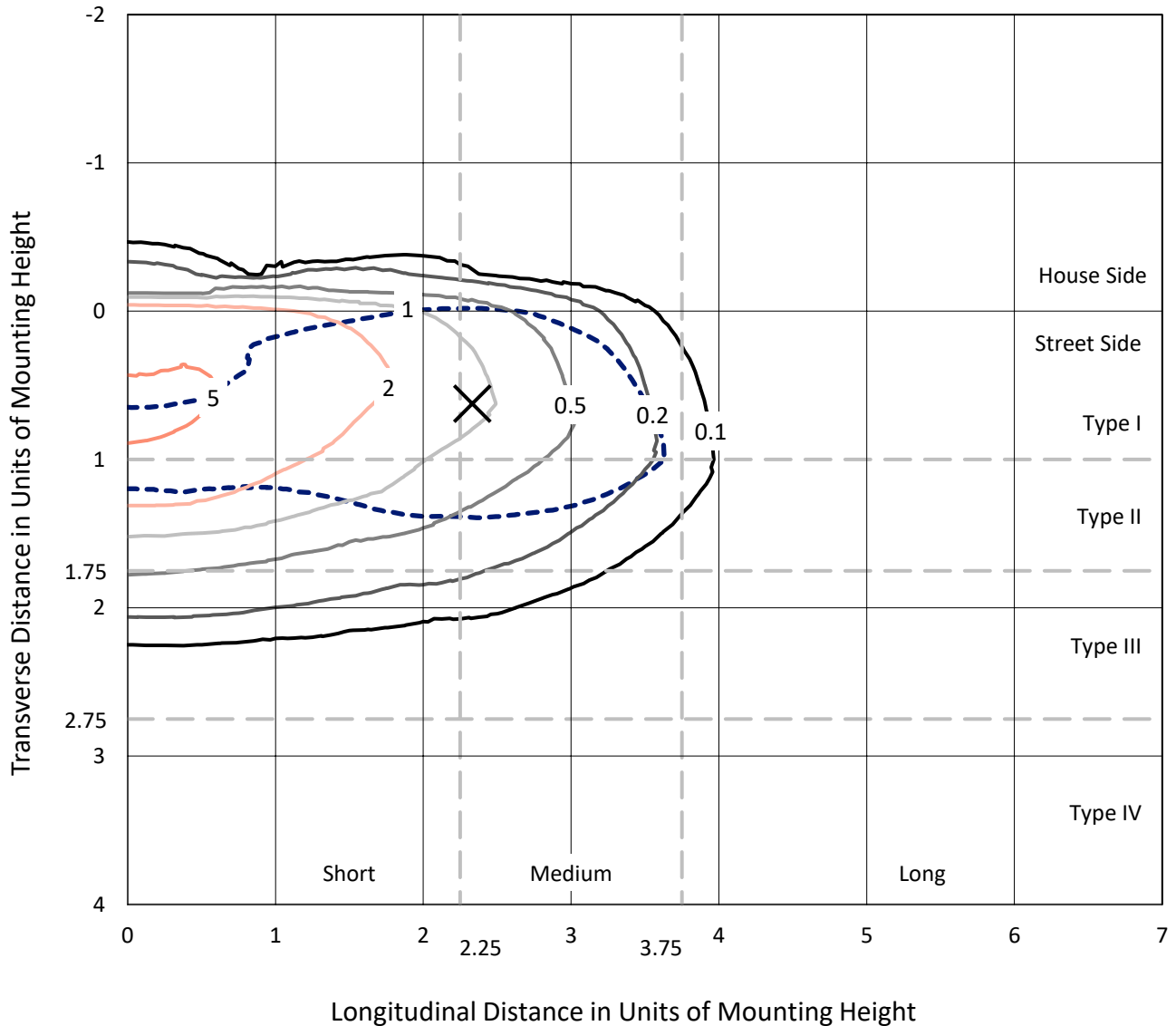




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### Iso-Footcandle Lines of Horizontal Illumination

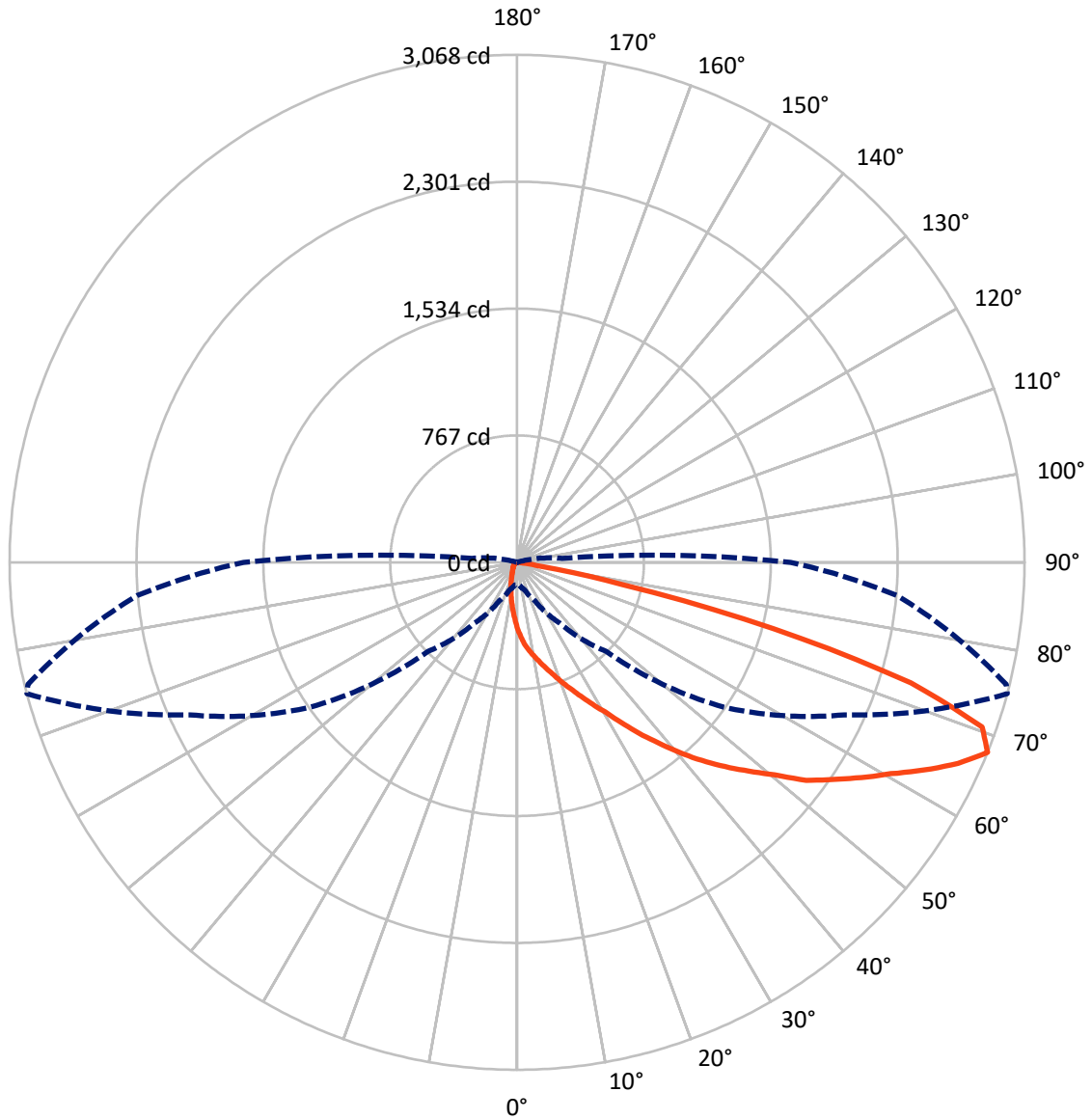
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 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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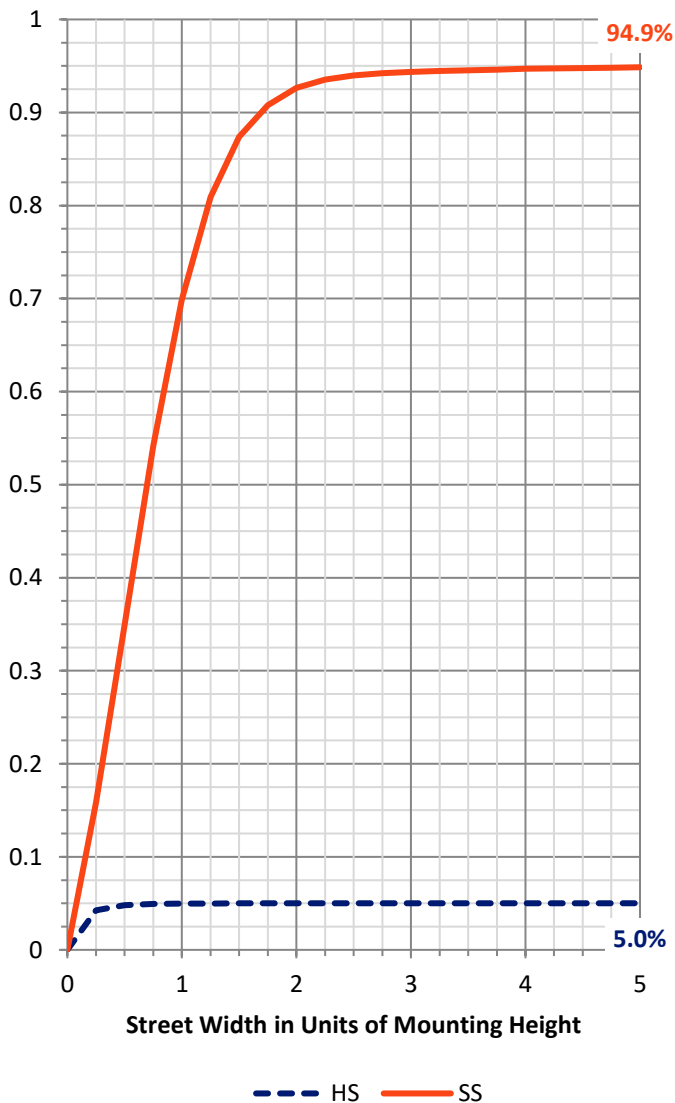
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	162.7	0.0	162.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3065.3	0.0	3065.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	3228.0	0.0	3228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.2	1.1
10°-20°	116.8	3.6
20°-30°	234.7	7.3
30°-40°	444.0	13.8
40°-50°	664.2	20.6
50°-60°	766.8	23.8
60°-70°	679.7	21.1
70°-80°	274.7	8.5
80°-90°	11.0	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°	3228.0	100.0
0°-180°	3228.0	100.0

**Coefficient of Utilization**



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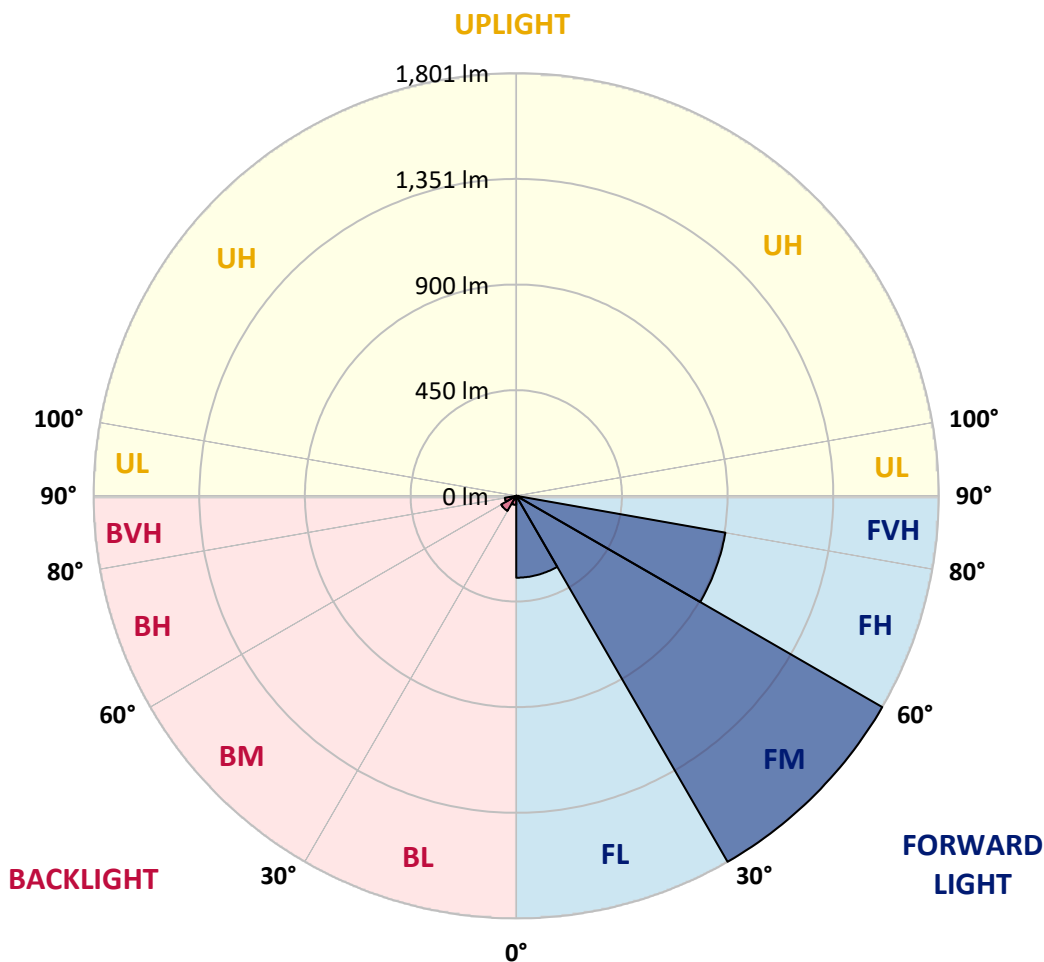
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.0	10.8			
FM (30°-60°)	1800.7	55.8			
FH (60°-80°)	905.1	28.0			G1/1800
FVH (80°-90°)	10.5	0.3			G1/100
BL (0°-30°)	38.7	1.2	B0/110		
BM (30°-60°)	74.2	2.3	B0/220		
BH (60°-80°)	49.3	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	558.1	560.1	556.2	547.5	539.7	521.3	506.8	480.6	452.5	452.5	418.6
5°	624.0	622.1	620.2	613.4	607.6	592.1	572.7	544.6	501.0	497.1	440.9
7.5°	656.0	654.1	650.2	647.3	647.3	636.6	618.2	589.1	540.7	536.8	461.2
10°	693.8	689.9	689.9	682.2	680.2	667.6	657.9	632.8	579.5	574.6	484.5
12.5°	738.4	734.5	735.5	728.7	725.8	712.2	698.6	674.4	621.1	616.3	511.6
15°	763.6	761.6	767.4	768.4	770.4	758.7	746.1	720.9	667.6	660.9	543.6
17.5°	778.1	778.1	784.9	797.5	812.0	805.2	795.5	775.2	715.1	711.2	577.5
20°	806.2	803.3	814.9	826.6	845.0	850.8	847.9	832.4	772.3	760.7	614.3
22.5°	852.7	848.8	859.5	874.0	896.3	898.3	900.2	892.4	830.4	818.8	653.1
25°	962.2	952.5	942.8	940.9	949.6	957.4	951.6	957.4	896.3	885.7	694.8
27.5°	1175.4	1158.9	1112.4	1061.1	1025.2	1032.0	1013.6	1024.2	971.9	958.3	733.5
30°	1379.8	1363.4	1325.6	1234.5	1152.1	1115.3	1088.2	1084.3	1049.4	1033.9	778.1
32.5°	1522.3	1511.6	1486.4	1425.4	1322.7	1228.7	1176.4	1157.9	1153.1	1128.9	835.3
35°	1619.2	1609.5	1592.1	1542.6	1467.1	1362.4	1272.3	1231.6	1268.4	1239.3	900.2
37.5°	1677.3	1670.5	1651.2	1617.3	1576.6	1507.8	1391.5	1326.6	1384.7	1357.6	983.5
40°	1720.0	1702.5	1689.0	1662.8	1649.2	1626.9	1527.1	1425.4	1510.7	1482.6	1065.9
42.5°	1723.8	1716.1	1705.4	1689.9	1691.9	1706.4	1671.5	1539.7	1637.6	1611.4	1153.1
45°	1722.9	1715.1	1707.4	1691.9	1701.6	1755.8	1787.8	1659.9	1761.6	1734.5	1245.2
47.5°	1694.8	1689.0	1690.9	1690.9	1703.5	1777.1	1877.9	1782.0	1885.7	1859.5	1356.6
50°	1595.9	1601.7	1640.5	1660.9	1683.1	1778.1	1940.9	1909.9	2019.4	2001.0	1464.2
52.5°	1283.0	1315.9	1472.9	1580.4	1645.4	1758.7	1981.6	2044.6	2189.0	2160.9	1586.2
55°	980.6	982.6	1133.7	1383.7	1570.7	1723.8	2004.9	2135.7	2317.8	2302.3	1693.8
57.5°	795.5	794.6	869.2	1094.0	1376.9	1668.6	2010.7	2202.5	2454.5	2425.4	1817.8
60°	650.2	646.3	690.9	829.5	1125.0	1538.8	1989.3	2256.8	2595.0	2584.3	1947.7
62.5°	470.0	473.8	532.9	640.5	867.3	1299.4	1943.8	2273.3	2764.5	2753.9	2093.0
65°	270.3	282.0	346.9	461.2	664.7	1016.5	1814.0	2260.7	2930.2	2929.3	2227.7
67.5°	135.7	136.6	171.5	257.8	446.7	760.7	1527.1	2181.2	3067.8	3046.5	2305.2
70°	87.2	89.1	100.8	132.8	247.1	527.1	1166.7	1956.4	2981.6	2973.8	2191.9
72.5°	66.9	68.8	78.5	87.2	128.9	299.4	789.7	1520.4	2489.3	2468.0	1709.3
75°	52.3	53.3	63.0	70.7	86.2	140.5	396.3	947.7	1603.7	1548.5	972.9
77.5°	41.7	42.6	47.5	56.2	65.9	78.5	117.2	426.4	652.1	582.4	315.9
80°	27.1	28.1	35.9	43.6	56.2	51.4	45.5	123.1	139.5	126.0	56.2
82.5°	15.5	16.5	24.2	34.9	42.6	29.1	26.2	35.9	32.9	32.0	17.4
85°	4.8	4.8	16.5	24.2	19.4	8.7	16.5	12.6	10.7	9.7	5.8
87.5°	1.0	1.0	7.8	8.7	2.9	1.0	1.9	2.9	3.9	4.8	2.9
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°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	402.1	382.8	346.9	315.9	285.9	259.7	241.3	224.8	213.2	210.3	205.4
5°	405.0	367.2	298.5	240.3	189.9	149.2	126.0	110.5	102.7	97.9	97.9
7.5°	407.9	351.7	252.9	175.4	120.2	91.1	76.6	69.8	66.9	65.9	64.9
10°	413.8	340.1	214.1	126.0	82.4	68.8	63.0	60.1	58.1	57.2	57.2
12.5°	423.5	330.4	178.3	93.0	67.8	61.0	57.2	53.3	51.4	50.4	50.4
15°	436.0	323.6	147.3	74.6	62.0	55.2	50.4	46.5	43.6	42.6	42.6
17.5°	453.5	318.8	121.1	65.9	57.2	49.4	43.6	39.7	36.8	35.9	35.9
20°	470.9	318.8	99.8	61.0	52.3	43.6	37.8	32.9	30.0	29.1	29.1
22.5°	494.2	317.8	83.3	56.2	46.5	37.8	32.0	26.2	24.2	23.3	23.3
25°	513.6	317.8	71.7	51.4	40.7	32.9	26.2	21.3	19.4	18.4	18.4
27.5°	536.8	314.9	61.0	45.5	34.9	27.1	21.3	17.4	15.5	14.5	14.5
30°	557.2	311.0	54.3	40.7	30.0	22.3	17.4	13.6	12.6	12.6	12.6
32.5°	591.1	308.1	48.4	34.9	25.2	18.4	13.6	10.7	9.7	9.7	9.7
35°	631.8	308.1	44.6	30.0	21.3	15.5	10.7	8.7	7.8	7.8	7.8
37.5°	685.1	311.0	39.7	26.2	17.4	12.6	8.7	6.8	5.8	5.8	5.8
40°	741.3	317.8	35.9	23.3	15.5	9.7	6.8	4.8	3.9	4.8	4.8
42.5°	808.1	324.6	32.0	20.3	12.6	7.8	4.8	2.9	1.9	2.9	2.9
45°	874.0	331.4	30.0	17.4	10.7	5.8	2.9	1.9	1.0	1.9	1.9
47.5°	955.4	347.9	28.1	15.5	8.7	4.8	1.9	1.0	0.0	1.0	1.0
50°	1049.4	366.3	25.2	12.6	6.8	3.9	1.9	0.0	0.0	0.0	0.0
52.5°	1139.5	381.8	22.3	10.7	5.8	2.9	1.0	0.0	0.0	0.0	0.0
55°	1229.7	391.5	19.4	8.7	4.8	2.9	1.0	0.0	0.0	0.0	0.0
57.5°	1326.6	397.3	17.4	7.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0
60°	1434.1	397.3	14.5	6.8	2.9	1.9	1.0	0.0	0.0	0.0	0.0
62.5°	1553.3	385.7	13.6	5.8	2.9	1.9	1.0	0.0	0.0	0.0	0.0
65°	1650.2	344.0	11.6	4.8	2.9	1.9	1.0	0.0	0.0	0.0	0.0
67.5°	1654.1	272.3	10.7	3.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0
70°	1474.8	186.0	8.7	2.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0
72.5°	1103.7	99.8	7.8	2.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0
75°	595.0	38.8	4.8	2.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0
77.5°	173.5	19.4	2.9	1.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0
80°	32.0	9.7	1.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	3.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.0	1.0	1.0	1.0	1.0	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)