

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: P594467

Luminaire Tested: **ISS-PA1A-735-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1A-735-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2948 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

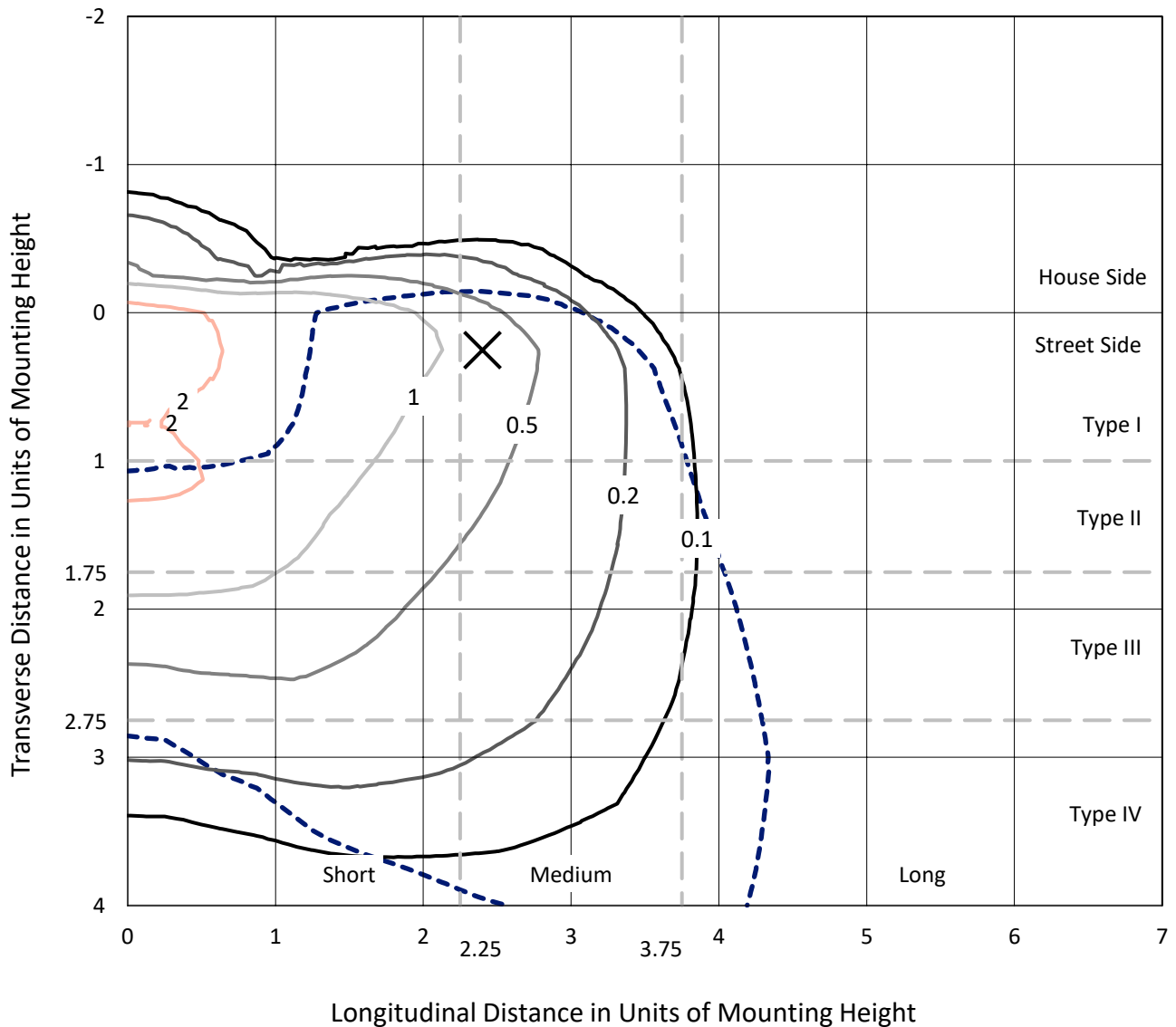
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

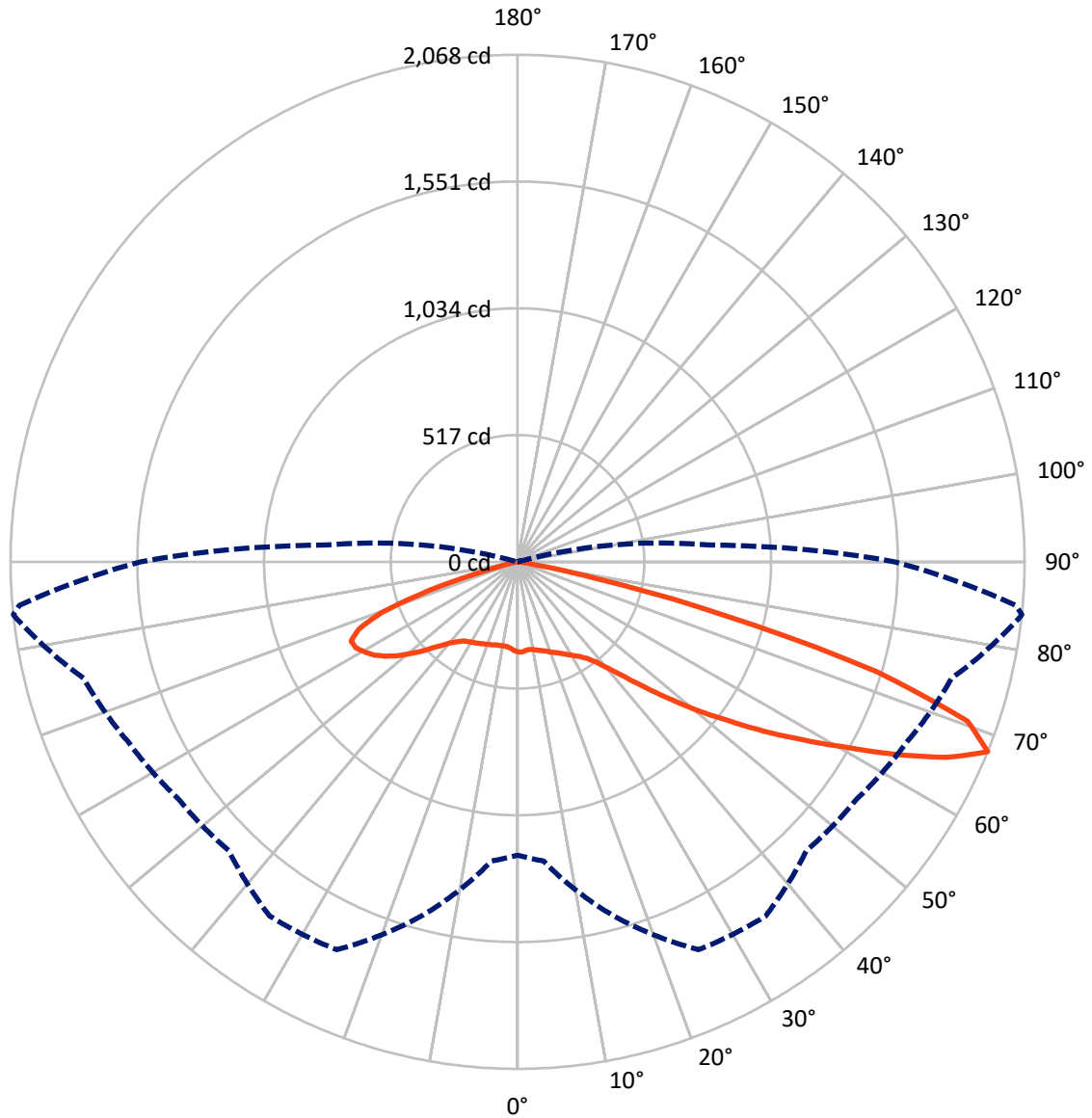
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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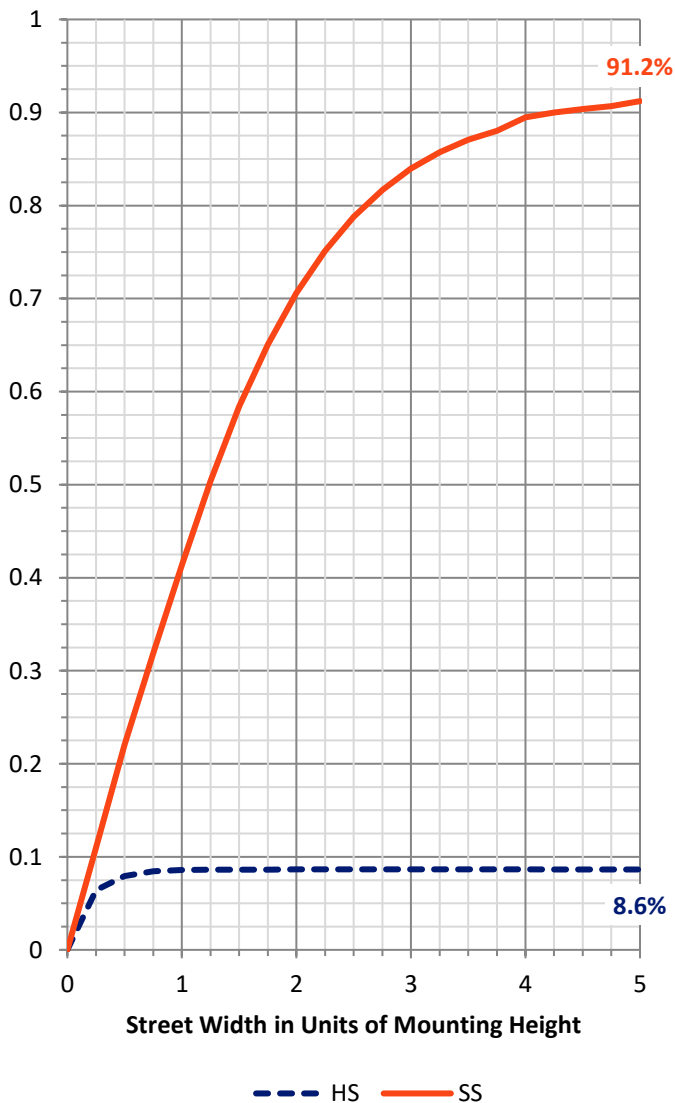
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	256.7	0.0	256.7
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2691.3	0.0	2691.3
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	2948.0	0.0	2948.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	1.1
10°-20°	86.1	2.9
20°-30°	138.0	4.7
30°-40°	198.5	6.7
40°-50°	340.8	11.6
50°-60°	595.4	20.2
60°-70°	852.6	28.9
70°-80°	640.8	21.7
80°-90°	62.9	2.1
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°	2948.0	100.0
0°-180°	2948.0	100.0

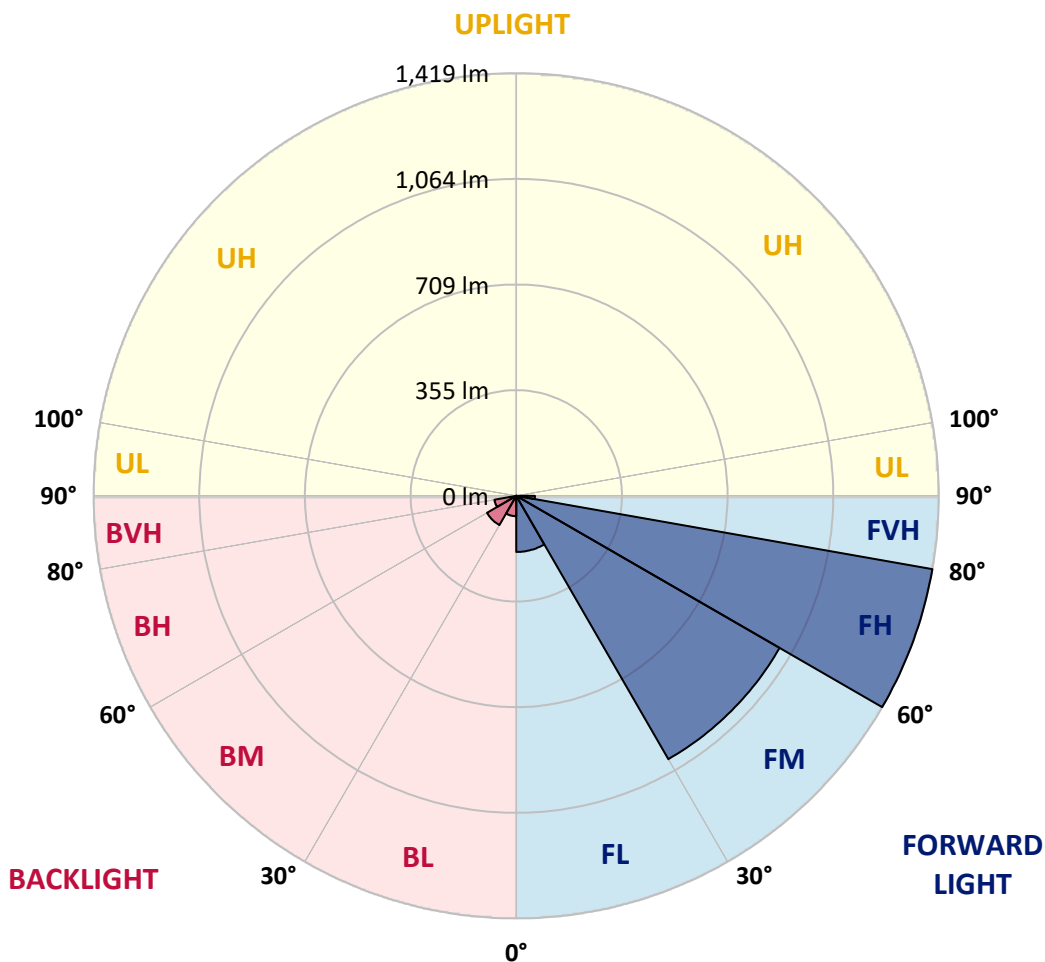


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	188.5	6.4			
FM (30°-60°)	1021.2	34.6			
FH (60°-80°)	1419.0	48.1			G1/1800
FVH (80°-90°)	62.7	2.1			G1/100
BL (0°-30°)	68.5	2.3	B0/110		
BM (30°-60°)	113.5	3.9	B0/220		
BH (60°-80°)	74.4	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3
2.5°	388.2	390.2	391.2	386.2	386.2	382.2	376.2	374.3	371.3	368.3	367.3
5°	408.1	411.1	410.1	404.1	401.1	393.2	385.2	377.2	369.3	362.3	362.3
7.5°	431.0	432.0	429.0	419.0	413.1	402.1	390.2	381.2	371.3	361.3	359.3
10°	450.9	449.9	445.9	436.0	425.0	411.1	398.1	388.2	376.2	364.3	363.3
12.5°	464.8	465.8	460.8	446.9	436.0	420.0	407.1	397.1	383.2	370.3	367.3
15°	476.8	479.8	473.8	459.9	443.9	430.0	420.0	407.1	391.2	376.2	374.3
17.5°	487.7	488.7	483.7	467.8	452.9	440.9	430.0	418.0	402.1	383.2	381.2
20°	493.7	496.7	493.7	473.8	459.9	450.9	441.9	430.0	412.1	394.2	392.2
22.5°	497.7	500.7	499.7	477.8	465.8	458.9	450.9	439.9	423.0	402.1	400.1
25°	499.7	501.7	503.6	481.8	471.8	468.8	461.8	451.9	436.0	414.1	412.1
27.5°	502.7	504.6	506.6	486.7	482.7	479.8	477.8	469.8	450.9	428.0	425.0
30°	507.6	510.6	512.6	495.7	495.7	498.7	498.7	487.7	466.8	442.9	440.9
32.5°	513.6	514.6	518.6	504.6	509.6	516.6	514.6	503.6	481.8	459.9	456.9
35°	529.5	529.5	536.5	518.6	524.6	530.5	532.5	524.6	504.6	482.7	481.8
37.5°	568.3	568.3	574.3	545.5	544.5	550.4	557.4	557.4	537.5	517.6	515.6
40°	655.9	655.9	655.9	589.2	578.3	585.3	596.2	602.2	585.3	571.3	571.3
42.5°	802.3	803.2	788.3	669.9	623.1	635.0	647.0	659.9	651.0	641.0	639.0
45°	953.5	948.6	946.6	788.3	702.7	696.7	711.7	733.6	736.6	730.6	734.6
47.5°	1057.1	1062.0	1065.0	935.6	814.2	773.4	787.3	818.2	836.1	835.1	841.1
50°	1157.6	1160.6	1163.6	1097.9	961.5	869.9	878.9	920.7	945.6	953.5	957.5
52.5°	1245.2	1237.2	1250.2	1241.2	1117.8	980.4	980.4	1028.2	1073.0	1076.0	1075.0
55°	1271.1	1276.0	1314.9	1341.7	1278.0	1115.8	1095.9	1146.6	1194.4	1219.3	1219.3
57.5°	1328.8	1333.8	1380.6	1441.3	1394.5	1249.2	1219.3	1269.1	1320.8	1368.6	1375.6
60°	1404.4	1405.4	1455.2	1547.8	1483.1	1369.6	1344.7	1401.5	1453.2	1534.8	1557.7
62.5°	1445.3	1449.2	1517.9	1639.3	1594.6	1475.1	1469.1	1520.9	1587.6	1730.9	1751.8
65°	1382.5	1408.4	1557.7	1694.1	1685.1	1573.7	1594.6	1636.4	1713.0	1923.0	1942.9
67.5°	1196.4	1225.3	1492.0	1745.8	1763.8	1666.2	1688.1	1748.8	1833.4	2068.3	2040.5
70°	1101.9	1125.7	1332.8	1774.7	1829.5	1769.7	1779.7	1836.4	1861.3	1946.9	1917.0
72.5°	835.1	860.0	1127.7	1676.2	1886.2	1878.2	1853.3	1806.6	1659.3	1531.8	1459.2
75°	369.3	398.1	750.5	1309.9	1745.8	1939.9	1808.6	1546.8	1191.4	869.9	806.2
77.5°	163.2	180.2	290.6	727.6	1311.9	1679.2	1430.3	1031.2	598.2	323.5	300.6
80°	52.8	54.7	91.6	254.8	670.9	1111.8	875.9	495.7	184.1	75.6	70.7
82.5°	20.9	22.9	43.8	107.5	277.7	441.9	430.0	179.2	53.7	19.9	19.9
85°	6.0	7.0	21.9	56.7	98.5	124.4	152.3	59.7	28.9	6.0	6.0
87.5°	2.0	2.0	8.0	17.9	18.9	12.9	28.9	22.9	17.9	2.0	2.0
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°	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3	367.3
2.5°	365.3	363.3	358.3	354.3	352.4	349.4	345.4	343.4	343.4	342.4	339.4
5°	358.3	355.3	346.4	340.4	335.4	324.5	316.5	306.6	296.6	293.6	296.6
7.5°	355.3	349.4	337.4	325.5	304.6	275.7	256.8	235.9	228.9	220.0	221.0
10°	356.3	349.4	332.4	305.6	264.8	222.0	192.1	164.2	150.3	143.3	144.3
12.5°	359.3	351.4	327.5	278.7	220.0	168.2	122.4	100.5	96.5	96.5	96.5
15°	365.3	353.4	319.5	246.8	172.2	111.5	86.6	84.6	87.6	90.6	91.6
17.5°	371.3	359.3	307.6	214.0	125.4	83.6	80.6	80.6	83.6	86.6	87.6
20°	378.2	365.3	290.6	179.2	89.6	78.6	77.6	76.6	78.6	81.6	82.6
22.5°	389.2	371.3	270.7	138.4	77.6	75.6	73.7	72.7	73.7	76.6	77.6
25°	399.1	379.2	249.8	102.5	72.7	70.7	69.7	68.7	68.7	70.7	71.7
27.5°	411.1	388.2	226.9	76.6	66.7	65.7	64.7	63.7	62.7	64.7	65.7
30°	426.0	396.2	202.1	64.7	60.7	59.7	58.7	57.7	56.7	57.7	58.7
32.5°	444.9	407.1	173.2	58.7	55.7	52.8	51.8	51.8	50.8	50.8	51.8
35°	469.8	419.0	142.3	54.7	50.8	47.8	44.8	43.8	43.8	43.8	44.8
37.5°	506.6	440.9	112.5	50.8	46.8	41.8	38.8	35.8	35.8	35.8	35.8
40°	557.4	464.8	87.6	47.8	43.8	36.8	32.8	28.9	26.9	25.9	26.9
42.5°	636.0	500.7	67.7	43.8	41.8	32.8	26.9	21.9	17.9	16.9	17.9
45°	722.6	539.5	53.7	40.8	37.8	27.9	20.9	14.9	10.9	10.0	10.9
47.5°	832.1	588.3	45.8	36.8	32.8	22.9	14.9	8.0	5.0	6.0	6.0
50°	937.6	636.0	41.8	33.8	28.9	18.9	9.0	4.0	2.0	3.0	3.0
52.5°	1054.1	686.8	38.8	29.9	24.9	13.9	5.0	1.0	0.0	1.0	1.0
55°	1171.5	732.6	35.8	26.9	19.9	10.0	2.0	0.0	0.0	0.0	1.0
57.5°	1298.9	771.4	32.8	22.9	14.9	6.0	1.0	0.0	0.0	0.0	0.0
60°	1405.4	801.3	29.9	19.9	10.0	3.0	0.0	0.0	0.0	0.0	0.0
62.5°	1503.0	828.1	22.9	14.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	1567.7	834.1	15.9	10.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1538.8	782.3	10.0	7.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1352.7	656.9	7.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	946.6	424.0	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	499.7	153.3	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	177.2	33.8	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	38.8	7.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)