

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: P594465

Luminaire Tested: **ISS-PA1A-735-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594465  
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-PA1A-735-U-T3-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 350mA 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: 2960 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

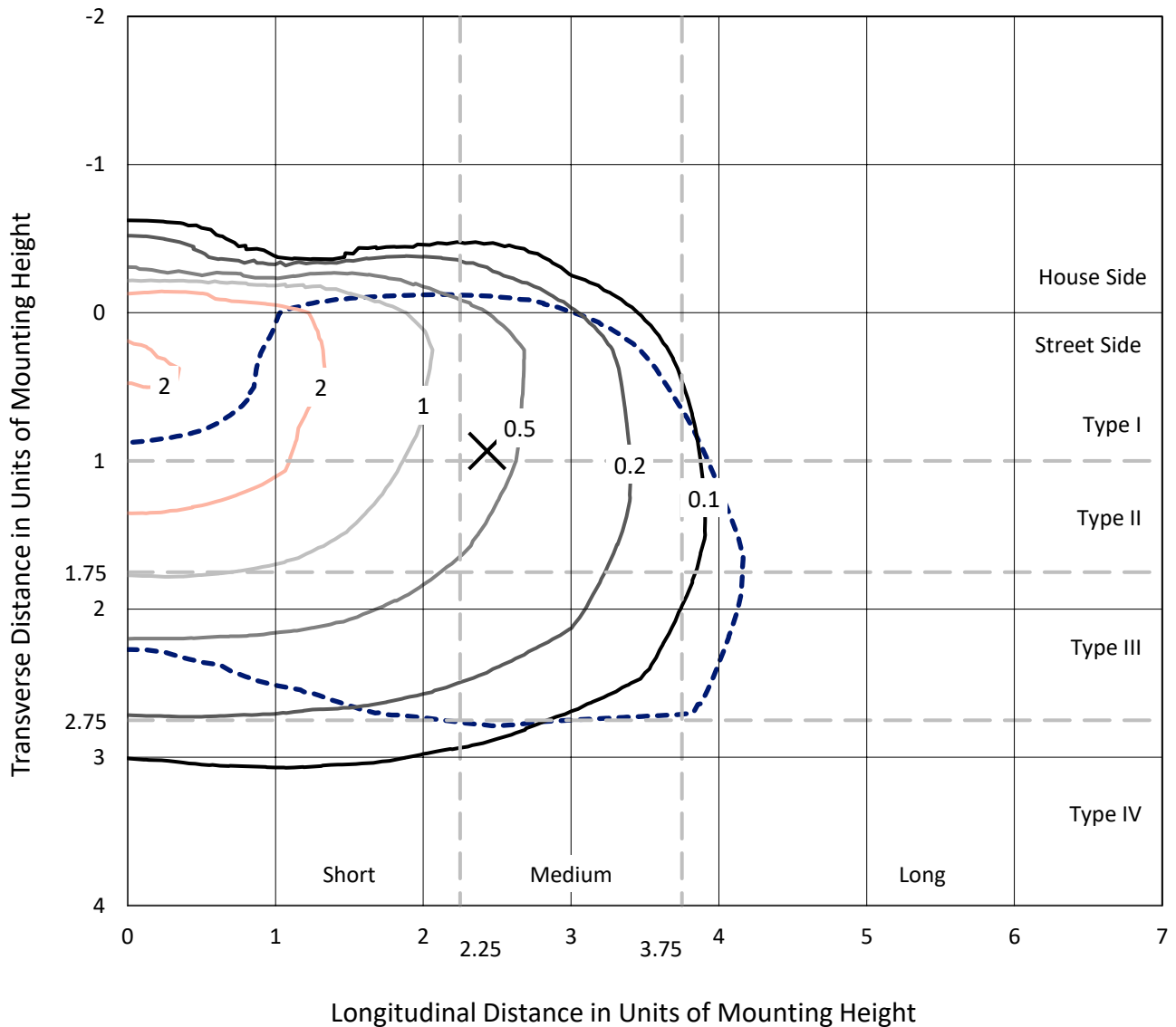
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

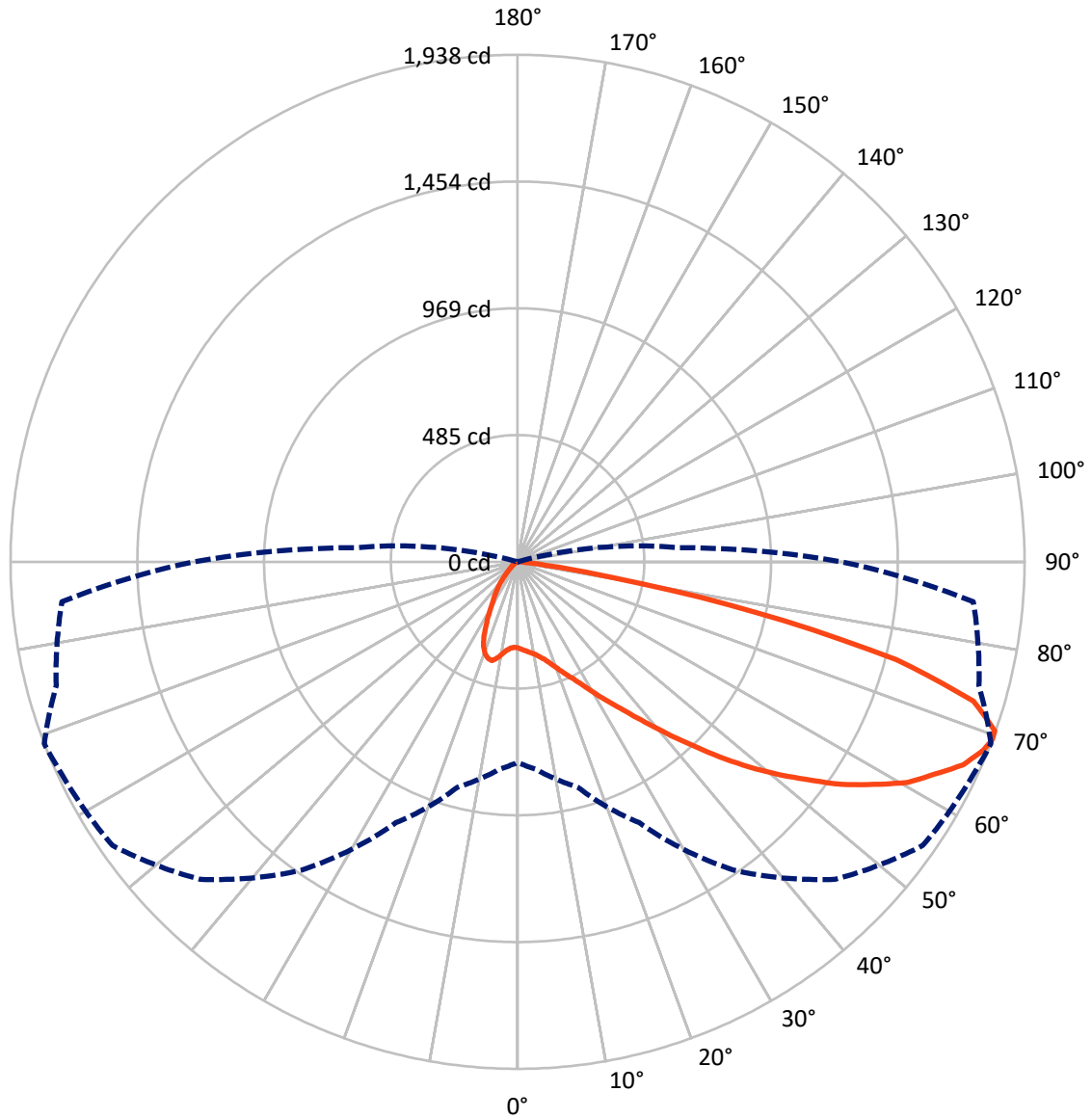
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.9 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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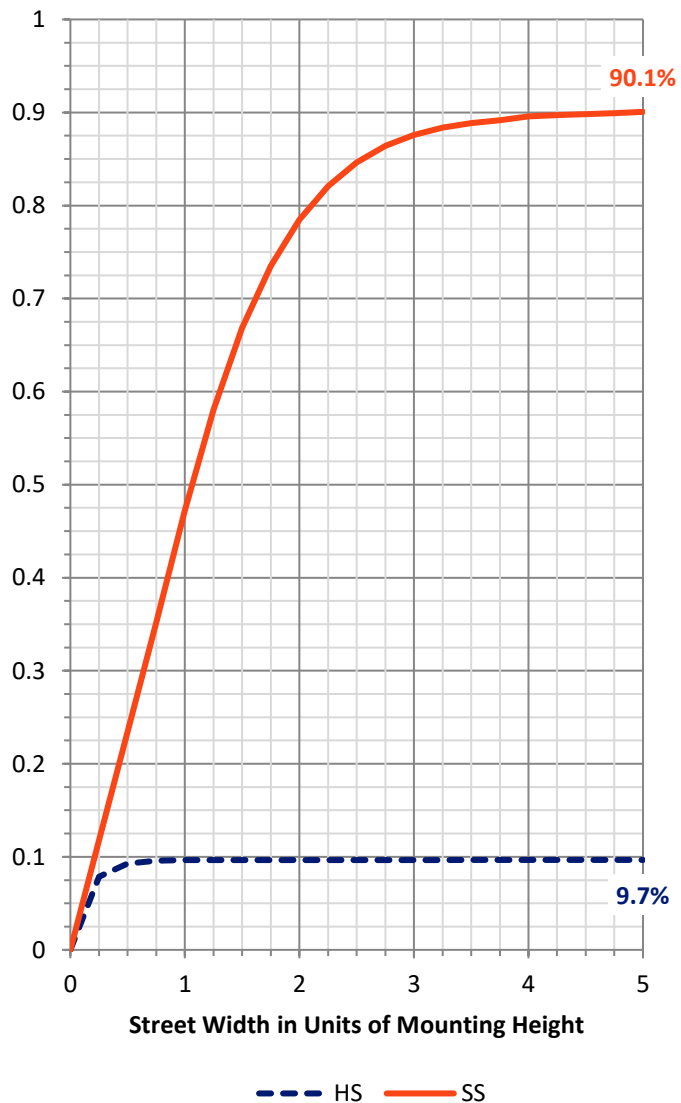
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	288.4	0.0	288.4
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	2671.6	0.0	2671.6
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	2960.0	0.0	2960.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.4	1.1
10°-20°	83.1	2.8
20°-30°	138.3	4.7
30°-40°	249.0	8.4
40°-50°	451.5	15.3
50°-60°	705.5	23.8
60°-70°	816.3	27.6
70°-80°	456.5	15.4
80°-90°	28.5	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°	2960.0	100.0
0°-180°	2960.0	100.0

**Coefficient of Utilization**

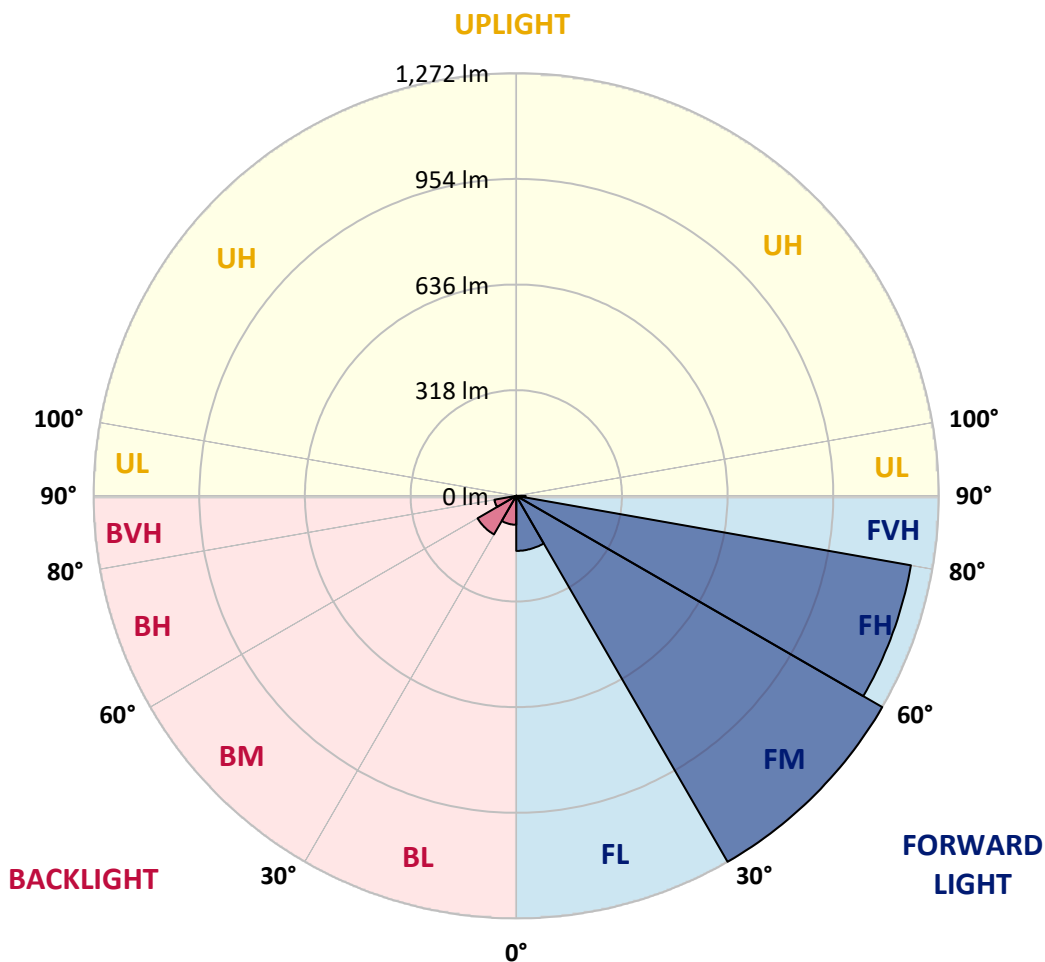


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.6	5.6			
FM (30°-60°)	1271.7	43.0			
FH (60°-80°)	1206.0	40.7			G1/1800
FVH (80°-90°)	28.3	1.0			G1/100
BL (0°-30°)	87.2	2.9	B0/110		
BM (30°-60°)	134.3	4.5	B0/220		
BH (60°-80°)	66.8	2.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	341.1	341.1	341.1	339.1	340.1	339.1	338.1	335.2	336.2	335.2	332.2
5°	329.3	330.2	333.2	335.2	340.1	342.1	343.1	343.1	342.1	340.1	338.1
7.5°	306.6	306.6	309.5	315.5	325.3	336.2	345.0	350.0	350.9	350.9	348.0
10°	300.7	300.7	304.6	308.6	318.4	331.2	345.0	356.9	358.8	360.8	359.8
12.5°	297.7	298.7	302.6	309.5	322.4	334.2	349.0	365.7	371.6	376.6	377.6
15°	301.7	301.7	305.6	312.5	327.3	344.0	362.8	381.5	387.4	394.3	399.2
17.5°	307.6	309.5	311.5	318.4	332.2	352.9	377.6	402.2	409.1	418.0	421.9
20°	317.4	317.4	319.4	325.3	340.1	364.7	399.2	428.8	434.7	440.6	445.6
22.5°	329.3	330.2	330.2	335.2	351.9	378.5	418.0	454.4	464.3	467.3	469.2
25°	364.7	362.8	355.9	352.9	365.7	394.3	440.6	485.0	495.9	498.8	494.9
27.5°	438.7	430.8	412.1	392.3	390.4	419.0	471.2	523.5	535.3	536.3	522.5
30°	531.3	532.3	501.8	459.4	430.8	445.6	504.7	571.8	583.6	578.7	557.0
32.5°	645.7	640.8	618.1	557.0	499.8	487.0	541.2	622.0	635.8	627.9	599.4
35°	743.3	746.2	718.6	664.4	592.5	551.1	585.6	678.2	695.0	681.2	645.7
37.5°	825.1	829.0	812.3	767.9	703.9	638.8	643.7	744.3	766.9	753.1	708.8
40°	915.8	918.8	911.9	863.5	806.4	743.3	721.6	820.2	850.7	832.0	785.7
42.5°	1015.4	1026.2	1014.4	975.9	916.8	862.6	830.0	912.8	943.4	931.6	869.5
45°	1151.4	1152.4	1138.6	1100.1	1039.0	994.7	955.2	1011.4	1050.8	1036.1	963.1
47.5°	1251.9	1258.8	1251.0	1224.3	1175.1	1145.5	1091.3	1119.9	1161.3	1142.5	1059.7
50°	1328.8	1347.6	1340.7	1348.6	1323.9	1311.1	1228.3	1232.2	1272.6	1256.9	1158.3
52.5°	1371.2	1394.9	1396.9	1437.3	1458.0	1489.5	1361.4	1355.5	1381.1	1367.3	1258.8
55°	1365.3	1371.2	1420.5	1494.5	1575.3	1647.2	1491.5	1466.8	1502.3	1463.9	1365.3
57.5°	1308.1	1322.9	1409.7	1501.4	1644.3	1748.8	1603.9	1576.3	1605.8	1554.6	1474.7
60°	1226.3	1248.0	1359.4	1490.5	1684.7	1809.9	1713.3	1685.7	1712.3	1650.2	1598.9
62.5°	1152.4	1162.2	1264.8	1445.2	1661.0	1806.9	1798.1	1772.4	1788.2	1723.2	1705.4
65°	1046.9	1050.8	1152.4	1363.3	1608.8	1787.2	1844.4	1854.3	1871.0	1784.3	1781.3
67.5°	884.2	893.1	993.7	1220.4	1522.1	1748.8	1880.9	1900.6	1920.3	1816.8	1795.1
69°	766.9	795.5	892.1	1100.1	1438.3	1716.3	1890.7	1922.3	1938.1	1825.7	1748.8
70°	671.3	696.0	807.4	1007.5	1364.3	1679.8	1897.6	1919.3	1935.1	1806.9	1672.9
72.5°	337.1	368.7	521.5	735.4	1084.4	1513.2	1862.1	1838.5	1821.7	1662.0	1353.5
75°	130.1	135.1	223.8	419.0	678.2	1111.0	1590.1	1545.7	1496.4	1260.8	802.4
77.5°	72.0	71.0	97.6	185.3	288.8	543.2	1075.5	1004.5	936.5	677.2	325.3
80°	30.6	32.5	42.4	88.7	151.8	188.3	522.5	464.3	369.7	214.9	77.9
82.5°	18.7	19.7	29.6	54.2	105.5	72.0	169.6	144.9	106.5	58.2	18.7
85°	5.9	6.9	20.7	36.5	51.3	29.6	38.4	33.5	29.6	24.6	5.9
87.5°	1.0	1.0	7.9	19.7	13.8	4.9	3.9	6.9	10.8	11.8	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°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	331.2	329.3	327.3	326.3	326.3	324.3	323.3	322.4	322.4	321.4	321.4
5°	335.2	333.2	331.2	330.2	328.3	327.3	327.3	327.3	326.3	327.3	328.3
7.5°	345.0	342.1	341.1	340.1	340.1	337.1	332.2	319.4	306.6	302.6	298.7
10°	358.8	357.8	357.8	357.8	350.9	325.3	289.8	258.3	241.5	227.7	227.7
12.5°	378.5	378.5	377.6	374.6	339.1	277.0	221.8	174.5	146.9	131.1	133.1
15°	400.2	399.2	401.2	382.5	298.7	213.9	134.1	94.6	79.8	77.9	77.9
17.5°	422.9	424.9	422.9	361.8	245.5	132.1	79.8	72.0	70.0	70.0	70.0
20°	446.6	444.6	441.6	326.3	178.4	82.8	69.0	67.0	65.1	64.1	64.1
22.5°	470.2	468.2	448.5	280.9	111.4	68.0	65.1	61.1	58.2	57.2	57.2
25°	492.9	492.9	435.7	222.8	75.9	64.1	59.1	55.2	52.2	49.3	49.3
27.5°	521.5	523.5	415.0	155.8	64.1	59.1	53.2	47.3	43.4	41.4	41.4
30°	554.0	557.0	381.5	101.5	58.2	52.2	46.3	39.4	33.5	31.5	30.6
32.5°	592.5	595.4	343.1	67.0	52.2	45.3	38.4	29.6	23.7	22.7	21.7
35°	641.7	634.8	296.7	53.2	45.3	38.4	29.6	20.7	16.8	15.8	15.8
37.5°	702.9	688.1	243.5	46.3	38.4	30.6	21.7	13.8	10.8	10.8	9.9
40°	772.9	731.5	188.3	41.4	32.5	23.7	13.8	8.9	6.9	6.9	6.9
42.5°	849.7	767.9	134.1	36.5	26.6	16.8	8.9	4.9	3.9	3.9	3.9
45°	938.5	801.4	91.7	31.5	22.7	11.8	4.9	2.0	2.0	2.0	2.0
47.5°	1027.2	823.1	61.1	27.6	16.8	6.9	3.0	1.0	1.0	1.0	1.0
50°	1116.9	839.9	47.3	23.7	11.8	3.9	1.0	0.0	0.0	0.0	0.0
52.5°	1196.7	851.7	38.4	19.7	7.9	3.0	1.0	0.0	0.0	0.0	0.0
55°	1265.7	852.7	33.5	15.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
57.5°	1335.7	844.8	28.6	11.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0
60°	1378.1	824.1	22.7	8.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	1403.8	789.6	17.7	5.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	1389.0	746.2	12.8	3.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1320.0	679.2	8.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	1238.1	618.1	7.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1166.2	570.8	6.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	868.5	367.7	5.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	488.0	123.2	3.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	183.4	31.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.4	7.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.0	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)