

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: P593952

Luminaire Tested: **ISC-PA1A-727-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P593952  
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: ISC-PA1A-727-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 2700K, 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: 2658 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

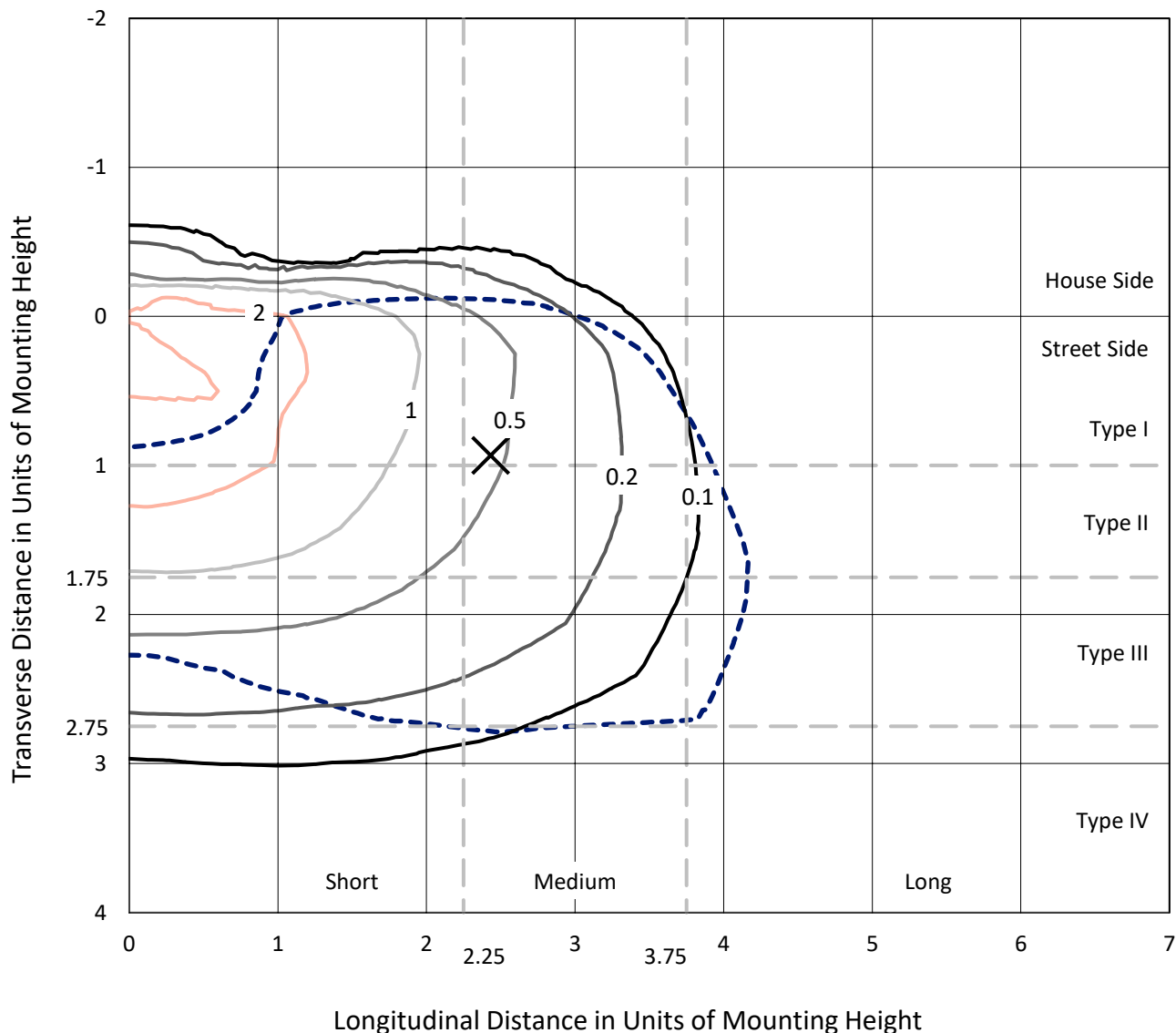
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

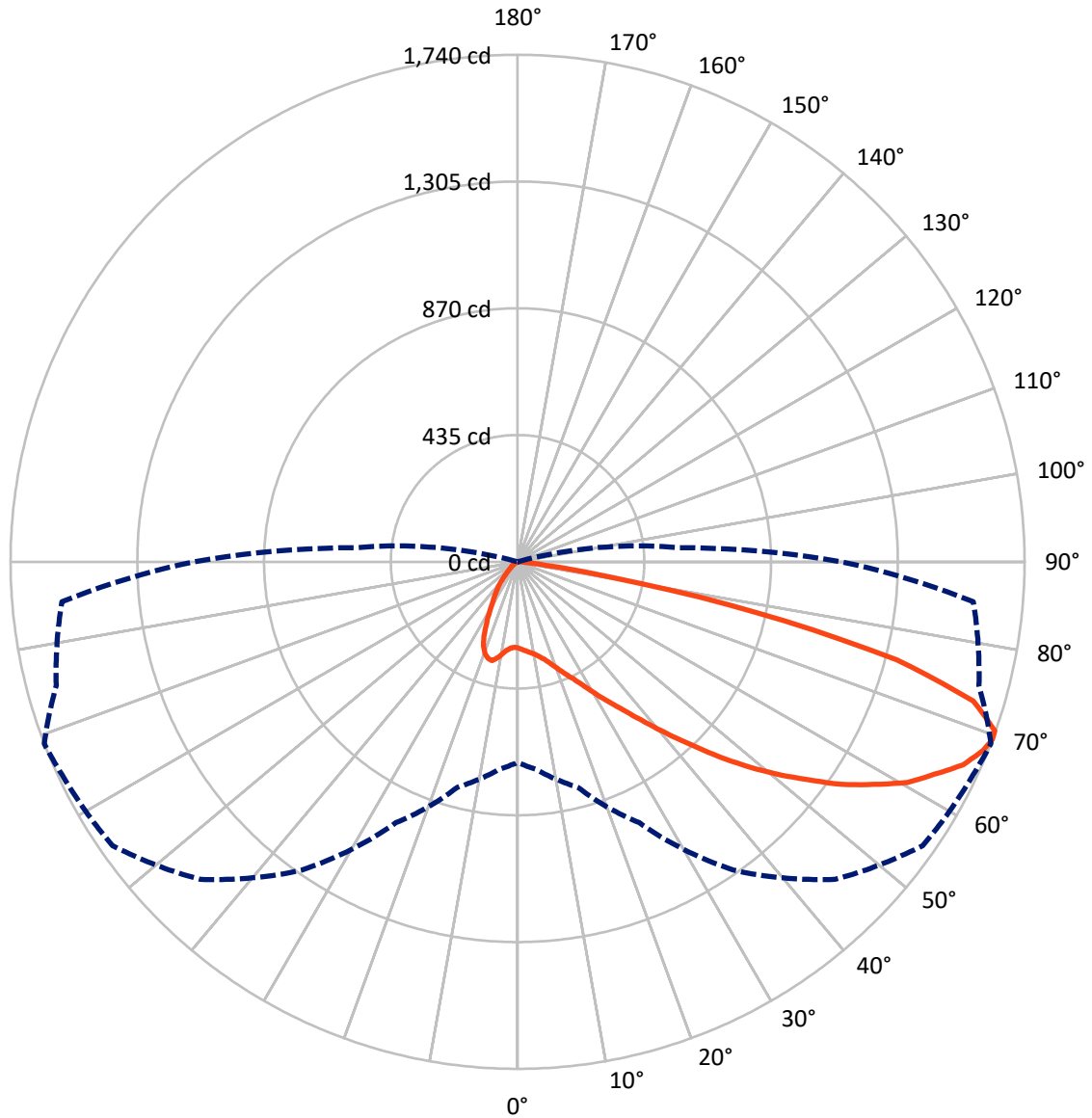
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.6 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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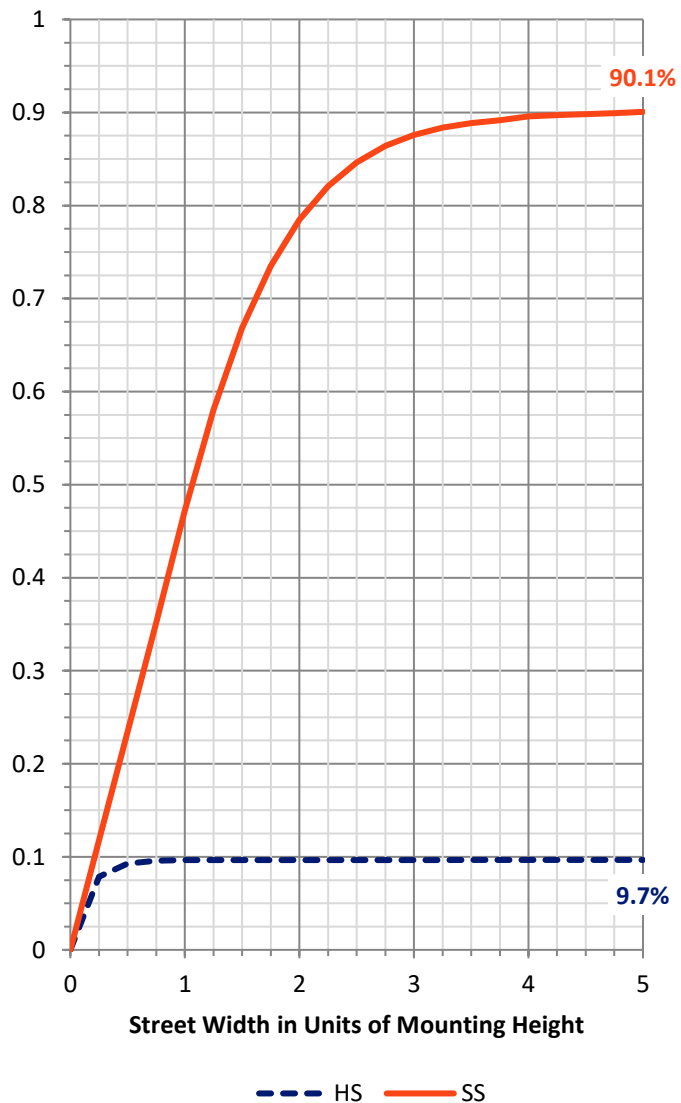
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	259.0	0.0	259.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	2399.0	0.0	2399.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	2658.0	0.0	2658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.2	1.1
10°-20°	74.6	2.8
20°-30°	124.2	4.7
30°-40°	223.6	8.4
40°-50°	405.4	15.3
50°-60°	633.5	23.8
60°-70°	733.0	27.6
70°-80°	409.9	15.4
80°-90°	25.6	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°	2658.0	100.0
0°-180°	2658.0	100.0

**Coefficient of Utilization**

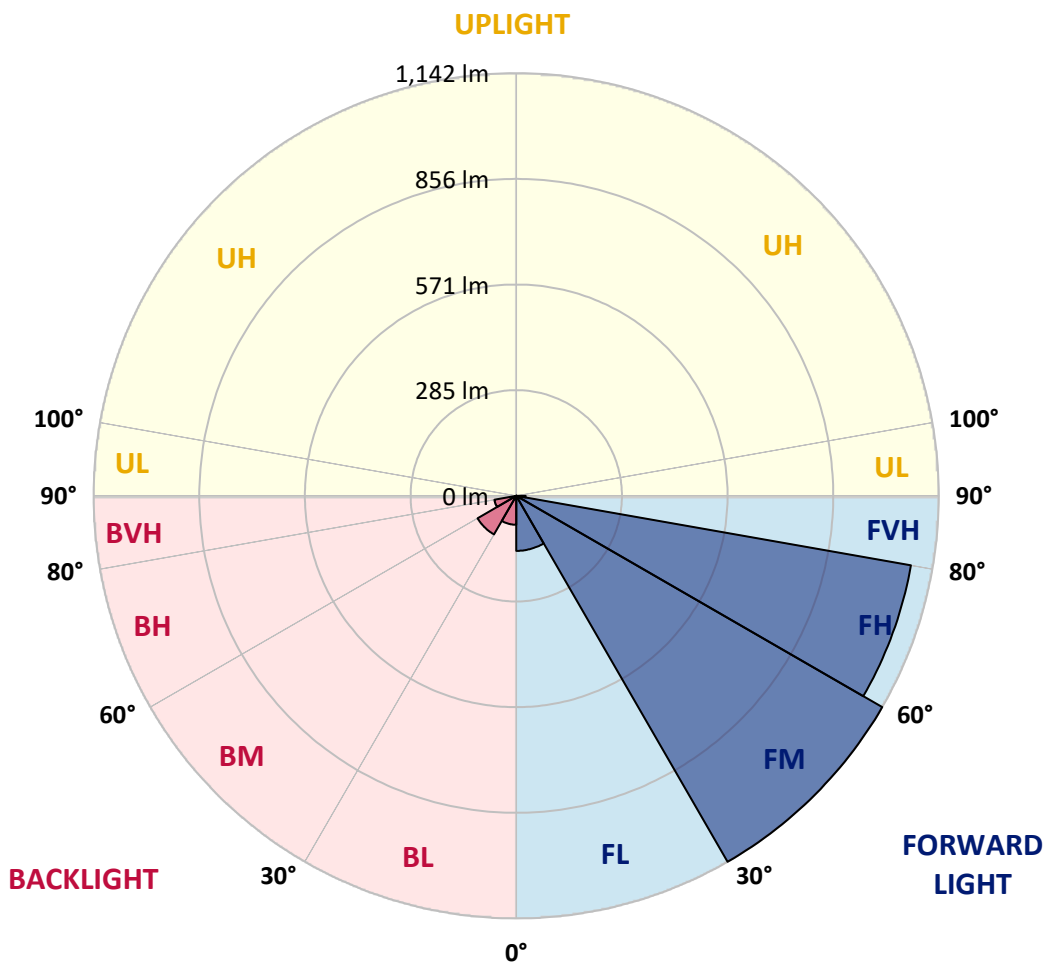


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	148.7	5.6			
FM (30°-60°)	1142.0	43.0			
FH (60°-80°)	1082.9	40.7			G1/1800
FVH (80°-90°)	25.4	1.0			G1/100
BL (0°-30°)	78.3	2.9	B0/110		
BM (30°-60°)	120.6	4.5	B0/220		
BH (60°-80°)	60.0	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°	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7
2.5°	306.3	306.3	306.3	304.5	305.4	304.5	303.6	301.0	301.9	301.0	298.3
5°	295.7	296.5	299.2	301.0	305.4	307.2	308.1	308.1	307.2	305.4	303.6
7.5°	275.3	275.3	278.0	283.3	292.1	301.9	309.8	314.2	315.1	315.1	312.5
10°	270.0	270.0	273.5	277.1	285.9	297.4	309.8	320.4	322.2	324.0	323.1
12.5°	267.3	268.2	271.8	278.0	289.5	300.1	313.4	328.4	333.7	338.1	339.0
15°	270.9	270.9	274.4	280.6	293.9	308.9	325.8	342.6	347.9	354.1	358.5
17.5°	276.2	278.0	279.7	285.9	298.3	316.9	339.0	361.2	367.4	375.3	378.9
20°	285.0	285.0	286.8	292.1	305.4	327.5	358.5	385.1	390.4	395.7	400.1
22.5°	295.7	296.5	296.5	301.0	316.0	339.9	375.3	408.1	416.9	419.6	421.4
25°	327.5	325.8	319.6	316.9	328.4	354.1	395.7	435.5	445.3	447.9	444.4
27.5°	393.9	386.8	370.0	352.3	350.5	376.2	423.1	470.0	480.7	481.6	469.2
30°	477.1	478.0	450.6	412.5	386.8	400.1	453.2	513.4	524.0	519.6	500.1
32.5°	579.8	575.4	555.0	500.1	448.8	437.3	486.0	558.6	571.0	563.9	538.2
35°	667.4	670.1	645.3	596.6	532.0	494.8	525.8	609.0	624.1	611.7	579.8
37.5°	740.9	744.5	729.4	689.6	632.0	573.6	578.0	668.3	688.7	676.3	636.5
40°	822.4	825.0	818.8	775.4	724.1	667.4	648.0	736.5	763.9	747.1	705.5
42.5°	911.8	921.5	910.9	876.4	823.2	774.6	745.3	819.7	847.1	836.5	780.8
45°	1033.9	1034.8	1022.4	987.9	933.0	893.2	857.8	908.2	943.6	930.4	864.8
47.5°	1124.2	1130.4	1123.3	1099.4	1055.2	1028.6	979.9	1005.6	1042.8	1026.0	951.6
50°	1193.3	1210.1	1203.9	1211.0	1188.8	1177.3	1103.0	1106.5	1142.8	1128.6	1040.1
52.5°	1231.3	1252.6	1254.3	1290.6	1309.2	1337.6	1222.5	1217.2	1240.2	1227.8	1130.4
55°	1226.0	1231.3	1275.6	1342.0	1414.6	1479.2	1339.3	1317.2	1349.1	1314.5	1226.0
57.5°	1174.7	1188.0	1265.8	1348.2	1476.5	1570.4	1440.2	1415.4	1442.0	1396.0	1324.3
60°	1101.2	1120.7	1220.7	1338.4	1512.8	1625.2	1538.5	1513.7	1537.6	1481.8	1435.8
62.5°	1034.8	1043.7	1135.7	1297.7	1491.6	1622.6	1614.6	1591.6	1605.8	1547.3	1531.4
65°	940.1	943.6	1034.8	1224.2	1444.7	1604.9	1656.2	1665.1	1680.1	1602.2	1599.6
67.5°	794.0	802.0	892.3	1095.9	1366.8	1570.4	1689.0	1706.7	1724.4	1631.4	1612.0
69°	688.7	714.4	801.1	987.9	1291.5	1541.1	1697.8	1726.2	1740.3	1639.4	1570.4
70°	602.8	625.0	725.0	904.7	1225.1	1508.4	1704.0	1723.5	1737.7	1622.6	1502.2
72.5°	302.7	331.1	468.3	660.4	973.7	1358.8	1672.2	1650.9	1635.9	1492.5	1215.4
75°	116.8	121.3	200.9	376.2	609.0	997.6	1427.8	1388.0	1343.7	1132.2	720.6
77.5°	64.6	63.7	87.6	166.4	259.4	487.8	965.8	902.0	840.9	608.1	292.1
80°	27.4	29.2	38.1	79.7	136.3	169.1	469.2	416.9	332.0	193.0	69.9
82.5°	16.8	17.7	26.6	48.7	94.7	64.6	152.3	130.1	95.6	52.2	16.8
85°	5.3	6.2	18.6	32.8	46.0	26.6	34.5	30.1	26.6	22.1	5.3
87.5°	0.9	0.9	7.1	17.7	12.4	4.4	3.5	6.2	9.7	10.6	1.8
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°	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7	295.7
2.5°	297.4	295.7	293.9	293.0	293.0	291.2	290.3	289.5	289.5	288.6	288.6
5°	301.0	299.2	297.4	296.5	294.8	293.9	293.9	293.9	293.0	293.9	294.8
7.5°	309.8	307.2	306.3	305.4	305.4	302.7	298.3	286.8	275.3	271.8	268.2
10°	322.2	321.3	321.3	321.3	315.1	292.1	260.3	231.9	216.9	204.5	204.5
12.5°	339.9	339.9	339.0	336.4	304.5	248.7	199.2	156.7	131.9	117.7	119.5
15°	359.4	358.5	360.3	343.5	268.2	192.1	120.4	85.0	71.7	69.9	69.9
17.5°	379.8	381.5	379.8	324.9	220.4	118.6	71.7	64.6	62.8	62.8	62.8
20°	401.0	399.2	396.6	293.0	160.2	74.4	62.0	60.2	58.4	57.5	57.5
22.5°	422.2	420.5	402.8	252.3	100.0	61.1	58.4	54.9	52.2	51.3	51.3
25°	442.6	442.6	391.3	200.1	68.2	57.5	53.1	49.6	46.9	44.3	44.3
27.5°	468.3	470.0	372.7	139.9	57.5	53.1	47.8	42.5	38.9	37.2	37.2
30°	497.5	500.1	342.6	91.2	52.2	46.9	41.6	35.4	30.1	28.3	27.4
32.5°	532.0	534.7	308.1	60.2	46.9	40.7	34.5	26.6	21.2	20.4	19.5
35°	576.3	570.1	266.4	47.8	40.7	34.5	26.6	18.6	15.0	14.2	14.2
37.5°	631.2	617.9	218.6	41.6	34.5	27.4	19.5	12.4	9.7	9.7	8.9
40°	694.0	656.8	169.1	37.2	29.2	21.2	12.4	8.0	6.2	6.2	6.2
42.5°	763.0	689.6	120.4	32.8	23.9	15.0	8.0	4.4	3.5	3.5	3.5
45°	842.7	719.7	82.3	28.3	20.4	10.6	4.4	1.8	1.8	1.8	1.8
47.5°	922.4	739.1	54.9	24.8	15.0	6.2	2.7	0.9	0.9	0.9	0.9
50°	1002.9	754.2	42.5	21.2	10.6	3.5	0.9	0.0	0.0	0.0	0.0
52.5°	1074.6	764.8	34.5	17.7	7.1	2.7	0.9	0.0	0.0	0.0	0.0
55°	1136.6	765.7	30.1	14.2	5.3	1.8	0.0	0.0	0.0	0.0	0.0
57.5°	1199.5	758.6	25.7	10.6	3.5	0.9	0.0	0.0	0.0	0.0	0.0
60°	1237.5	740.0	20.4	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0
62.5°	1260.5	709.1	15.9	5.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0
65°	1247.3	670.1	11.5	3.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1185.3	609.9	8.0	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
69°	1111.8	555.0	7.1	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
70°	1047.2	512.5	6.2	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	779.9	330.2	5.3	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	438.2	110.7	3.5	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	164.6	28.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.3	7.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)