

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: P594006

Luminaire Tested: **ISC-PA1A-827-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594006  
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-827-U-T3-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 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: 2336 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

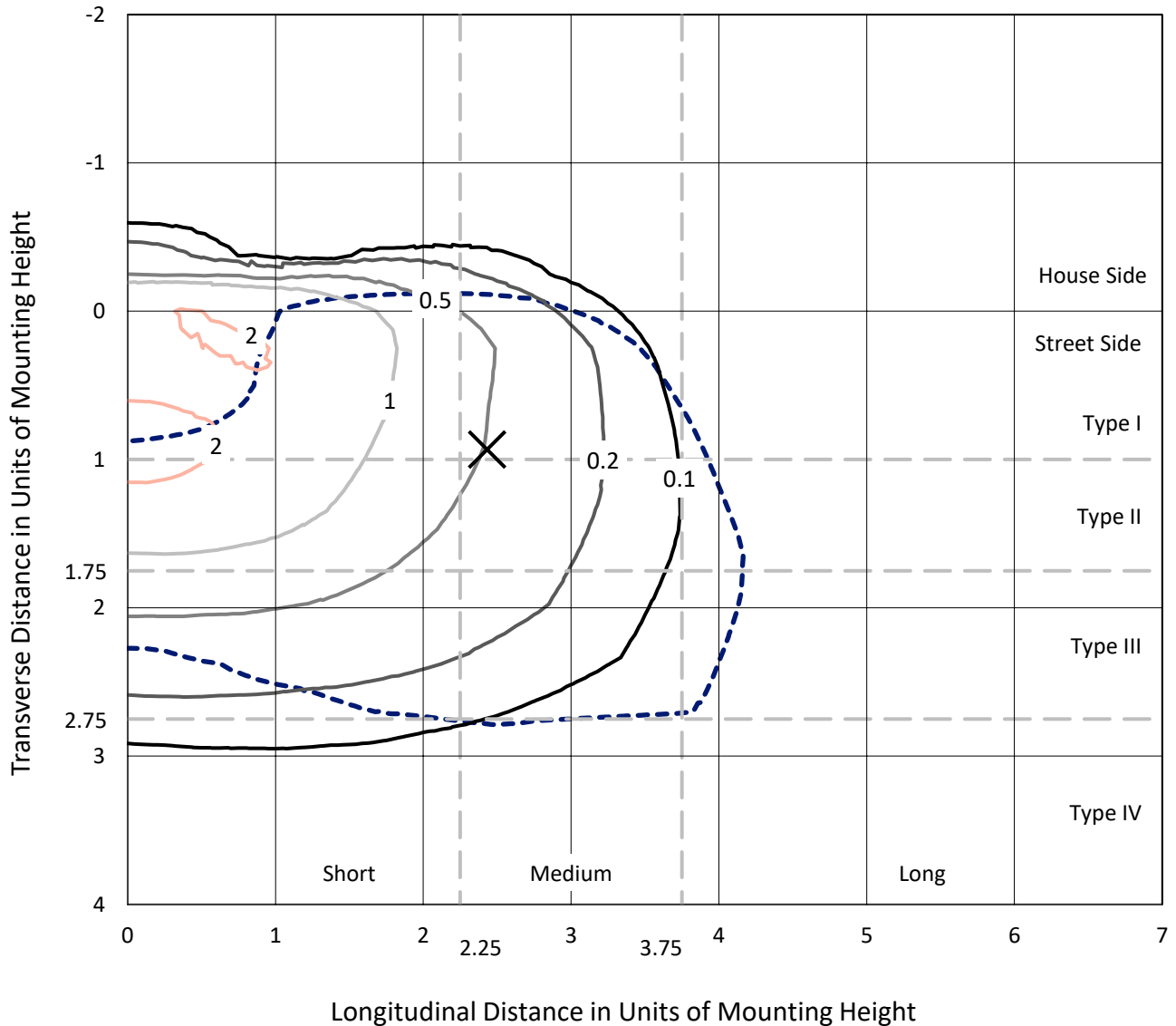
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

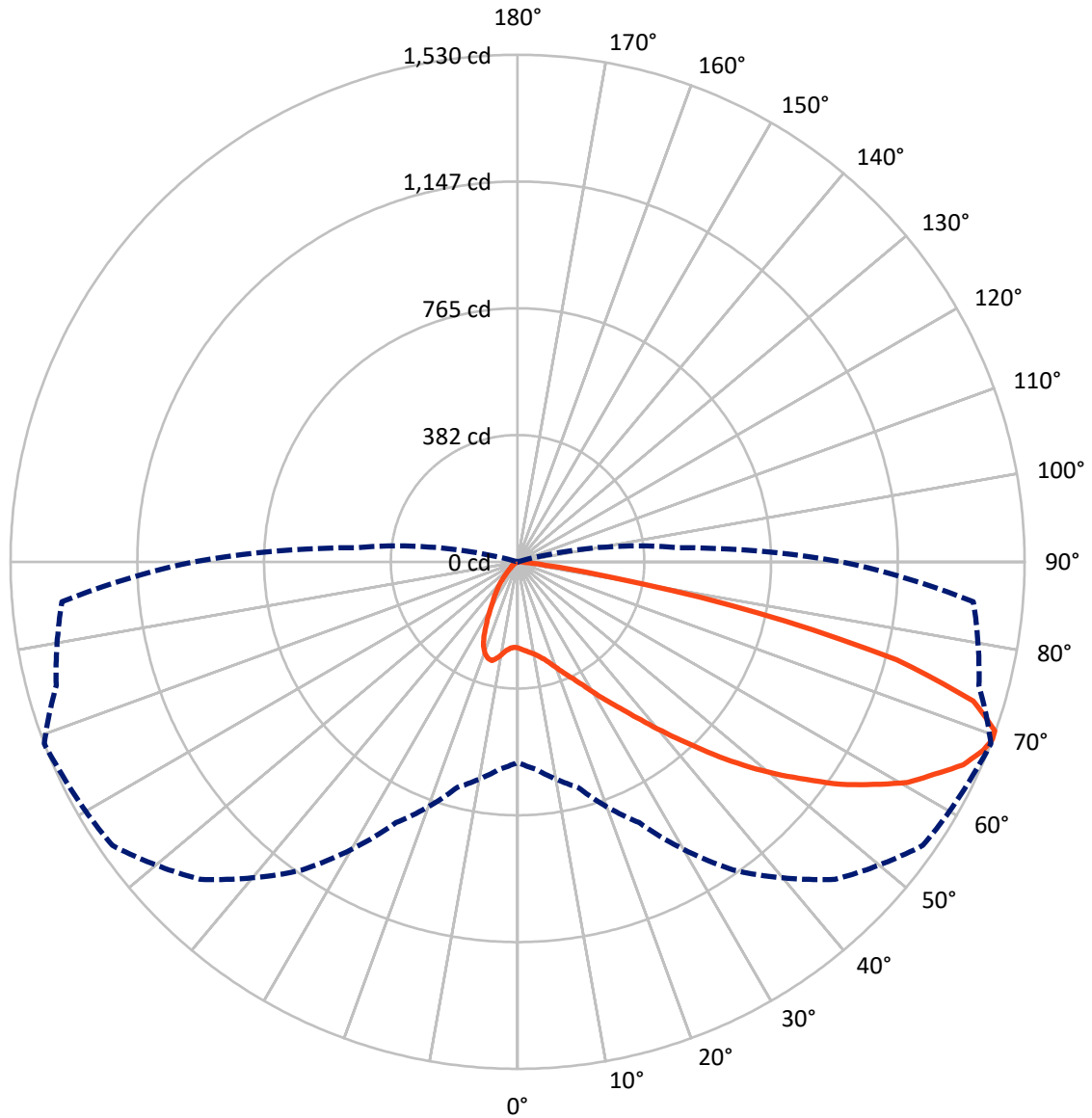
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.3 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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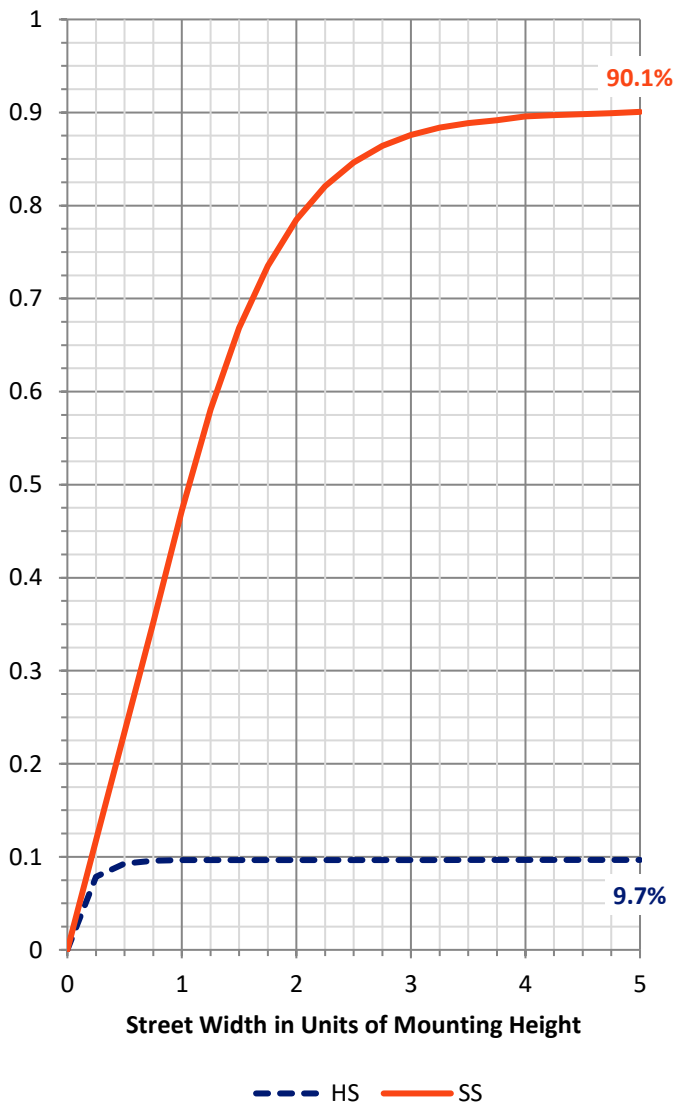
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	227.6	0.0	227.6
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	2108.4	0.0	2108.4
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	2336.0	0.0	2336.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	1.1
10°-20°	65.6	2.8
20°-30°	109.1	4.7
30°-40°	196.5	8.4
40°-50°	356.3	15.3
50°-60°	556.8	23.8
60°-70°	644.2	27.6
70°-80°	360.3	15.4
80°-90°	22.5	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°	2336.0	100.0
0°-180°	2336.0	100.0

**Coefficient of Utilization**

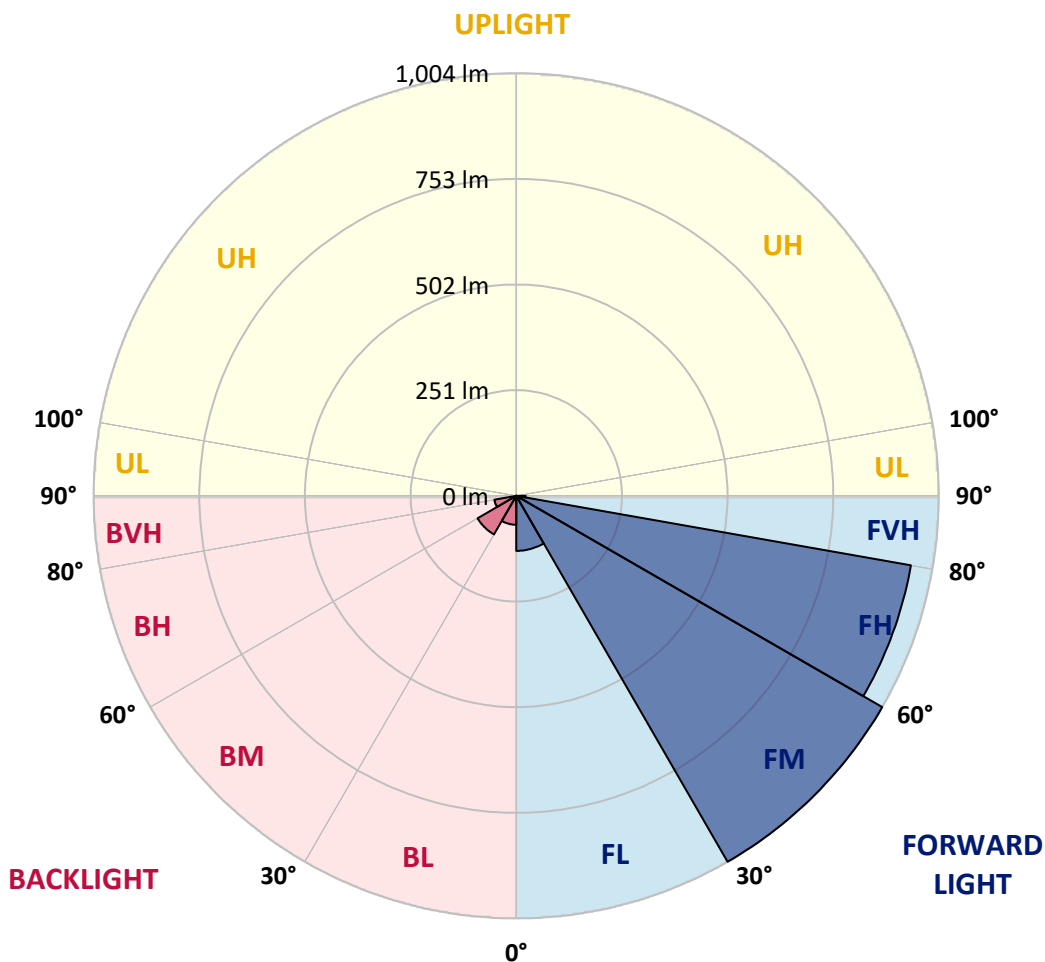


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.7	5.6			
FM (30°-60°)	1003.6	43.0			
FH (60°-80°)	951.7	40.7			G1/1800
FVH (80°-90°)	22.3	1.0			G1/100
BL (0°-30°)	68.8	2.9	B0/110		
BM (30°-60°)	106.0	4.5	B0/220		
BH (60°-80°)	52.7	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°	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8
2.5°	269.2	269.2	269.2	267.6	268.4	267.6	266.8	264.5	265.3	264.5	262.2
5°	259.8	260.6	263.0	264.5	268.4	270.0	270.7	270.7	270.0	268.4	266.8
7.5°	241.9	241.9	244.3	249.0	256.7	265.3	272.3	276.2	277.0	277.0	274.6
10°	237.3	237.3	240.4	243.5	251.3	261.4	272.3	281.6	283.2	284.7	284.0
12.5°	234.9	235.7	238.8	244.3	254.4	263.7	275.4	288.6	293.3	297.2	298.0
15°	238.1	238.1	241.2	246.6	258.3	271.5	286.3	301.1	305.7	311.2	315.1
17.5°	242.7	244.3	245.8	251.3	262.2	278.5	298.0	317.4	322.9	329.9	333.0
20°	250.5	250.5	252.1	256.7	268.4	287.8	315.1	338.4	343.1	347.8	351.6
22.5°	259.8	260.6	260.6	264.5	277.7	298.7	329.9	358.6	366.4	368.8	370.3
25°	287.8	286.3	280.8	278.5	288.6	311.2	347.8	382.8	391.3	393.7	390.5
27.5°	346.2	340.0	325.2	309.6	308.1	330.6	371.9	413.1	422.4	423.2	412.3
30°	419.3	420.1	396.0	362.5	340.0	351.6	398.3	451.2	460.6	456.7	439.6
32.5°	509.6	505.7	487.8	439.6	394.4	384.3	427.1	490.9	501.8	495.6	473.0
35°	586.6	588.9	567.1	524.4	467.6	434.9	462.1	535.2	548.5	537.6	509.6
37.5°	651.2	654.3	641.0	606.0	555.5	504.1	508.0	587.4	605.3	594.4	559.4
40°	722.7	725.1	719.6	681.5	636.4	586.6	569.5	647.3	671.4	656.6	620.0
42.5°	801.3	809.9	800.5	770.2	723.5	680.7	655.1	720.4	744.5	735.2	686.2
45°	908.7	909.4	898.6	868.2	820.0	785.0	753.9	798.2	829.3	817.6	760.1
47.5°	988.0	993.5	987.2	966.2	927.3	904.0	861.2	883.8	916.5	901.7	836.3
50°	1048.7	1063.5	1058.0	1064.3	1044.8	1034.7	969.4	972.5	1004.4	991.9	914.1
52.5°	1082.2	1100.8	1102.4	1134.3	1150.6	1175.5	1074.4	1069.7	1089.9	1079.0	993.5
55°	1077.5	1082.2	1121.1	1179.4	1243.2	1300.0	1177.1	1157.6	1185.6	1155.3	1077.5
57.5°	1032.4	1044.0	1112.5	1184.9	1297.7	1380.1	1265.8	1244.0	1267.3	1226.9	1163.8
60°	967.8	984.9	1072.8	1176.3	1329.6	1428.4	1352.1	1330.3	1351.3	1302.3	1261.9
62.5°	909.4	917.2	998.1	1140.5	1310.9	1426.0	1419.0	1398.8	1411.2	1359.9	1345.9
65°	826.2	829.3	909.4	1075.9	1269.6	1410.5	1455.6	1463.4	1476.6	1408.1	1405.8
67.5°	697.8	704.8	784.2	963.1	1201.2	1380.1	1484.4	1499.9	1515.5	1433.8	1416.7
69°	605.3	627.8	704.1	868.2	1135.1	1354.4	1492.1	1517.0	1529.5	1440.8	1380.1
70°	529.8	549.2	637.2	795.1	1076.7	1325.7	1497.6	1514.7	1527.2	1426.0	1320.2
72.5°	266.1	291.0	411.5	580.4	855.8	1194.2	1469.6	1450.9	1437.7	1311.7	1068.2
75°	102.7	106.6	176.6	330.6	535.2	876.8	1254.9	1219.9	1181.0	995.0	633.3
77.5°	56.8	56.0	77.0	146.3	227.9	428.7	848.8	792.8	739.1	534.5	256.7
80°	24.1	25.7	33.5	70.0	119.8	148.6	412.3	366.4	291.7	169.6	61.5
82.5°	14.8	15.6	23.3	42.8	83.2	56.8	133.8	114.4	84.0	45.9	14.8
85°	4.7	5.4	16.3	28.8	40.5	23.3	30.3	26.5	23.3	19.4	4.7
87.5°	0.8	0.8	6.2	15.6	10.9	3.9	3.1	5.4	8.6	9.3	1.6
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°	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8	259.8
2.5°	261.4	259.8	258.3	257.5	257.5	256.0	255.2	254.4	254.4	253.6	253.6
5°	264.5	263.0	261.4	260.6	259.1	258.3	258.3	258.3	257.5	258.3	259.1
7.5°	272.3	270.0	269.2	268.4	268.4	266.1	262.2	252.1	241.9	238.8	235.7
10°	283.2	282.4	282.4	282.4	277.0	256.7	228.7	203.8	190.6	179.7	179.7
12.5°	298.7	298.7	298.0	295.6	267.6	218.6	175.0	137.7	115.9	103.5	105.0
15°	315.9	315.1	316.6	301.9	235.7	168.8	105.8	74.7	63.0	61.5	61.5
17.5°	333.7	335.3	333.7	285.5	193.7	104.2	63.0	56.8	55.2	55.2	55.2
20°	352.4	350.9	348.5	257.5	140.8	65.3	54.5	52.9	51.3	50.6	50.6
22.5°	371.1	369.5	354.0	221.7	87.9	53.7	51.3	48.2	45.9	45.1	45.1
25°	389.0	389.0	343.9	175.8	59.9	50.6	46.7	43.6	41.2	38.9	38.9
27.5°	411.5	413.1	327.5	122.9	50.6	46.7	42.0	37.3	34.2	32.7	32.7
30°	437.2	439.6	301.1	80.1	45.9	41.2	36.6	31.1	26.5	24.9	24.1
32.5°	467.6	469.9	270.7	52.9	41.2	35.8	30.3	23.3	18.7	17.9	17.1
35°	506.5	501.0	234.2	42.0	35.8	30.3	23.3	16.3	13.2	12.4	12.4
37.5°	554.7	543.0	192.2	36.6	30.3	24.1	17.1	10.9	8.6	8.6	7.8
40°	609.9	577.3	148.6	32.7	25.7	18.7	10.9	7.0	5.4	5.4	5.4
42.5°	670.6	606.0	105.8	28.8	21.0	13.2	7.0	3.9	3.1	3.1	3.1
45°	740.6	632.5	72.4	24.9	17.9	9.3	3.9	1.6	1.6	1.6	1.6
47.5°	810.6	649.6	48.2	21.8	13.2	5.4	2.3	0.8	0.8	0.8	0.8
50°	881.4	662.8	37.3	18.7	9.3	3.1	0.8	0.0	0.0	0.0	0.0
52.5°	944.5	672.2	30.3	15.6	6.2	2.3	0.8	0.0	0.0	0.0	0.0
55°	998.9	672.9	26.5	12.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	1054.2	666.7	22.6	9.3	3.1	0.8	0.0	0.0	0.0	0.0	0.0
60°	1087.6	650.4	17.9	7.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0
62.5°	1107.8	623.2	14.0	4.7	1.6	0.8	0.0	0.0	0.0	0.0	0.0
65°	1096.2	588.9	10.1	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1041.7	536.0	7.0	2.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
69°	977.1	487.8	6.2	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
70°	920.3	450.4	5.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	685.4	290.2	4.7	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	385.1	97.2	3.1	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	144.7	24.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.9	6.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	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)