

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: P594504

Luminaire Tested: **ISS-PA1A-827-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1A-827-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3062.1 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

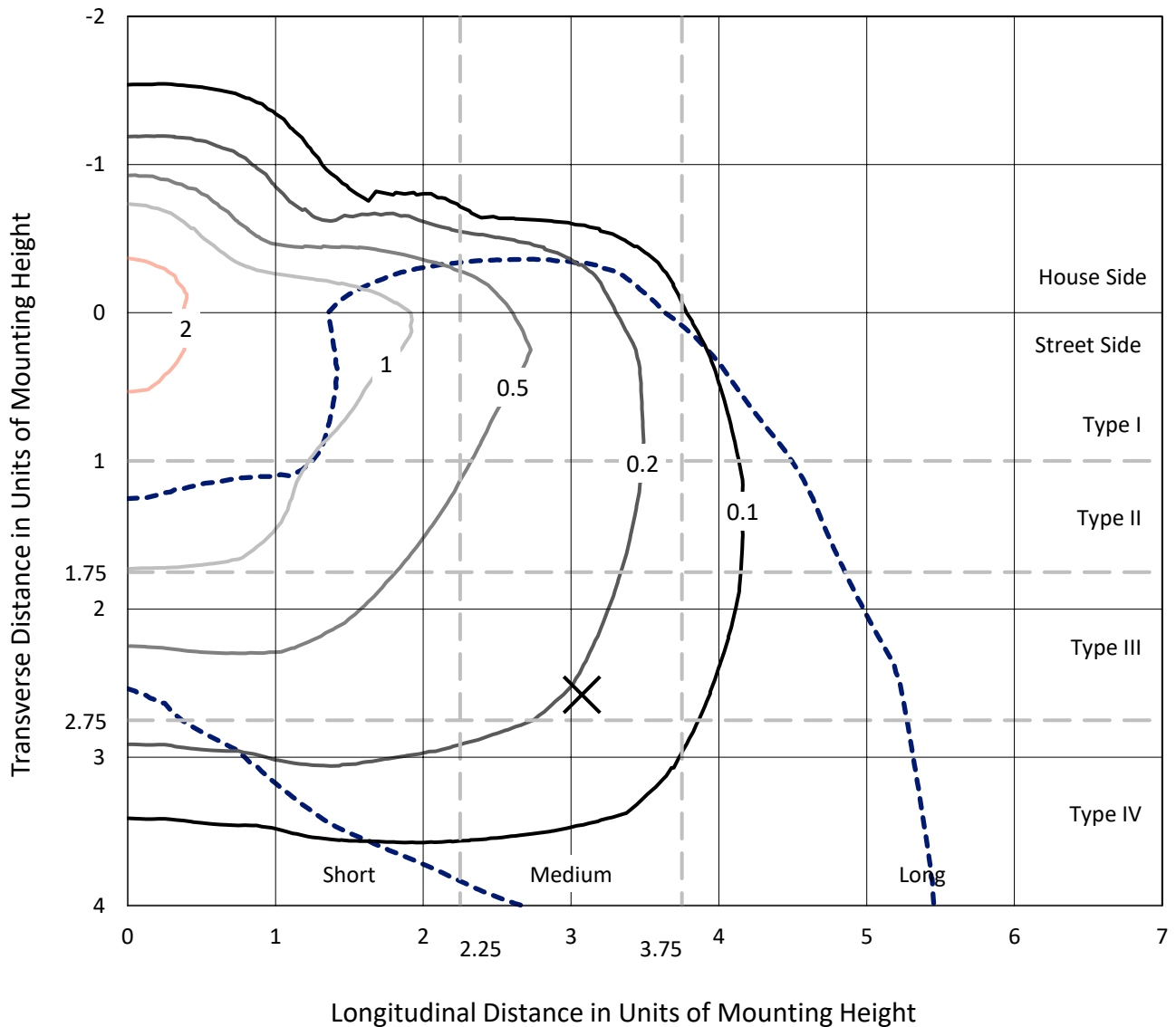
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594504  
 CATALOG NUMBER: ISS-PA1A-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

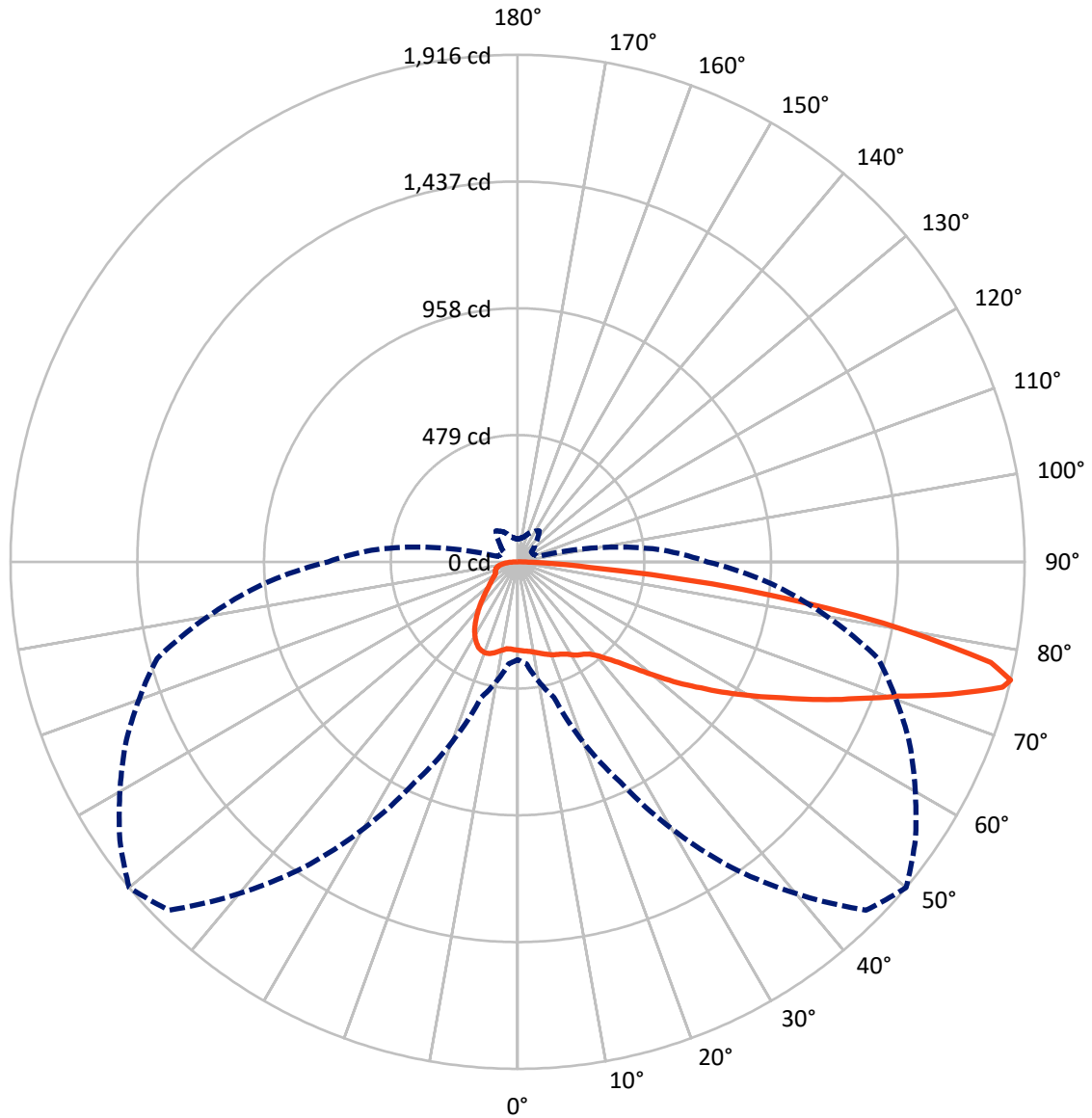
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P594504  
CATALOG NUMBER: ISS-PA1A-827-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 76-Deg Vertical

REPORT NUMBER: P594504  
 CATALOG NUMBER: ISS-PA1A-827-U-T4W

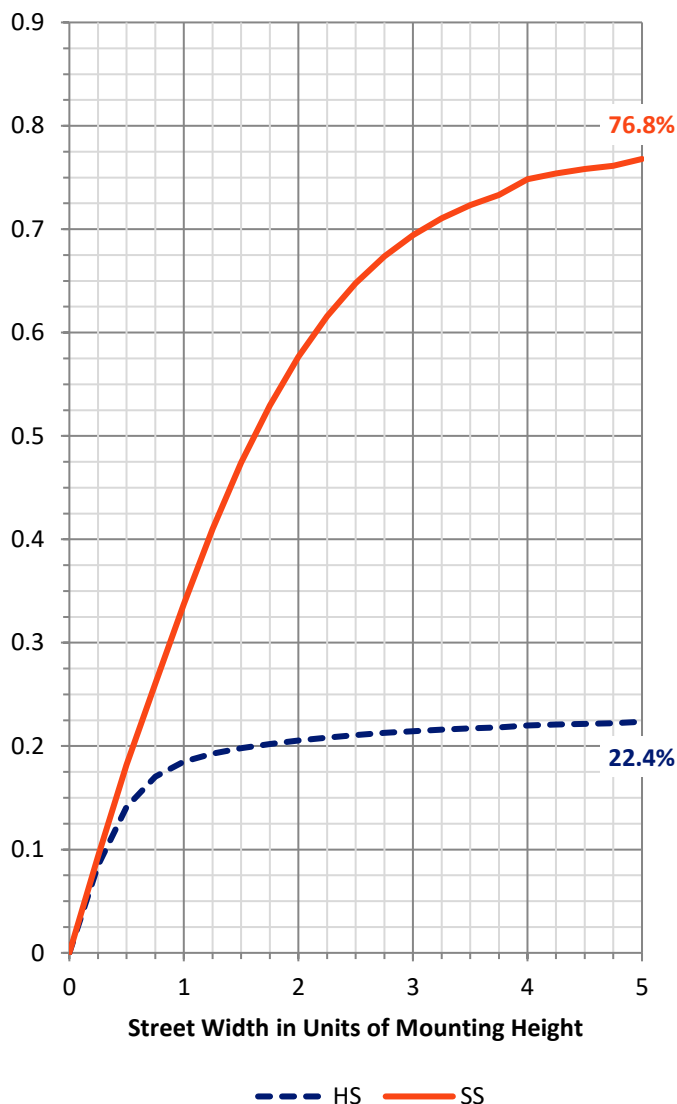
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	700.5	0.0	700.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	2361.6	0.0	2361.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	3062.1	0.0	3062.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.4	1.1
10°-20°	101.9	3.3
20°-30°	172.1	5.6
30°-40°	235.9	7.7
40°-50°	347.5	11.3
50°-60°	546.6	17.9
60°-70°	786.8	25.7
70°-80°	715.4	23.4
80°-90°	123.5	4.0
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°	3062.1	100.0
0°-180°	3062.1	100.0

**Coefficient of Utilization**

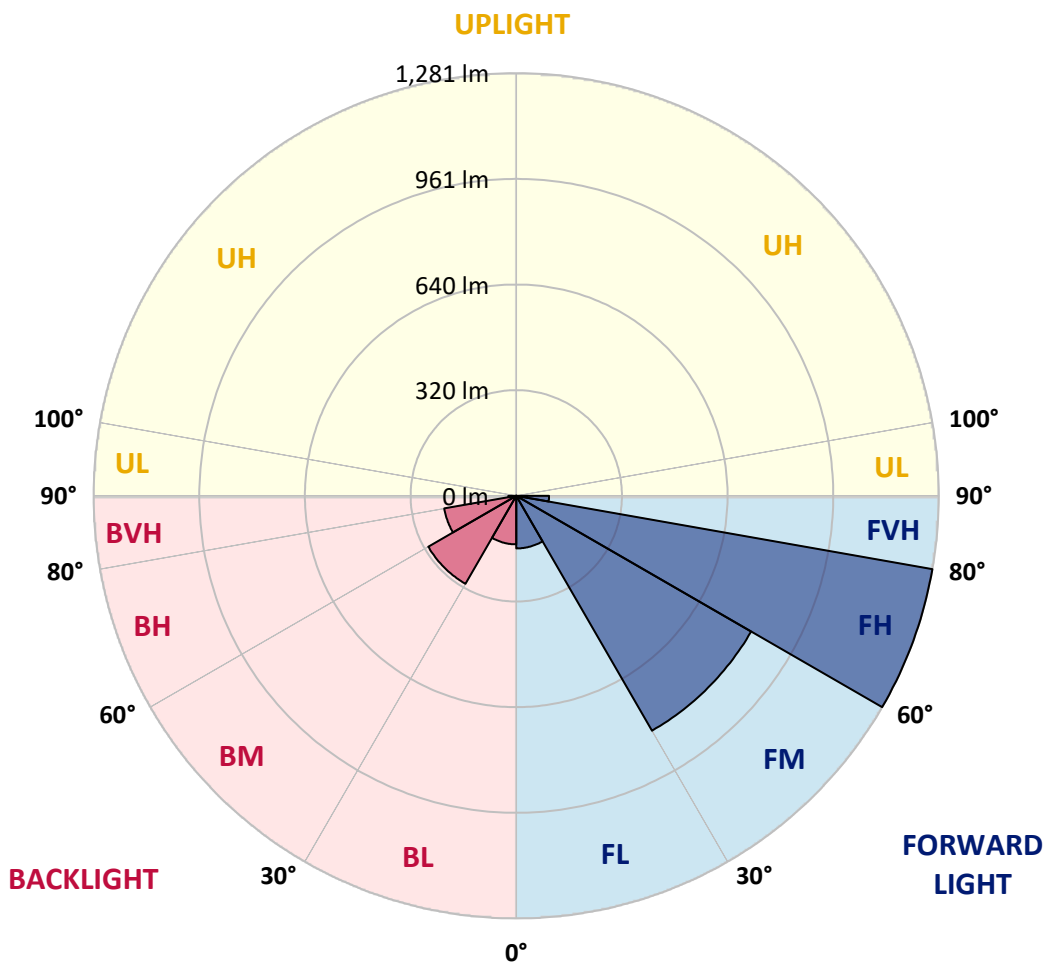


REPORT NUMBER: P594504  
 CATALOG NUMBER: ISS-PA1A-827-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.4	5.2			
FM (30°-60°)	822.1	26.8			
FH (60°-80°)	1280.7	41.8			G1/1800
FVH (80°-90°)	99.4	3.2			G1/100
BL (0°-30°)	147.1	4.8	B1/500		
BM (30°-60°)	307.9	10.1	B1/1000		
BH (60°-80°)	221.5	7.2	B1/500		G1/500
BVH (80°-90°)	24.1	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type IV Medium





REPORT NUMBER: P594504  
 CATALOG NUMBER: ISS-PA1A-827-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8
2.5°	341.3	341.3	342.0	340.5	340.5	336.8	336.8	336.0	334.5	333.8	332.3
5°	354.0	354.0	351.8	348.0	345.8	341.3	339.0	337.5	334.5	330.8	327.0
7.5°	367.5	366.0	364.5	358.5	354.0	345.8	342.0	339.8	333.8	328.5	326.3
10°	381.8	379.5	375.8	368.3	361.5	351.8	347.3	344.3	337.5	333.0	327.8
12.5°	390.0	390.0	385.5	376.5	367.5	355.5	353.3	349.5	342.8	336.8	331.5
15°	398.3	399.0	394.5	384.0	373.5	364.5	360.8	358.5	351.0	342.0	335.3
17.5°	406.5	405.8	401.3	389.3	378.0	369.8	367.5	364.5	357.0	348.8	342.0
20°	412.5	411.0	409.5	394.5	383.3	378.0	375.0	372.8	365.3	356.3	347.3
22.5°	414.0	415.5	414.0	396.0	387.0	381.0	380.3	378.0	372.0	363.8	354.8
25°	414.8	415.5	417.8	400.5	392.3	387.8	386.3	384.8	380.3	373.5	361.5
27.5°	418.5	419.3	419.3	403.5	399.0	396.0	394.5	394.5	392.3	384.0	372.0
30°	419.3	420.0	421.5	411.0	409.5	407.3	408.0	407.3	403.5	394.5	381.0
32.5°	424.5	425.3	429.0	415.5	417.0	419.3	420.0	419.3	411.8	404.3	393.0
35°	441.8	441.0	444.0	426.8	425.3	426.0	428.3	427.5	424.5	417.8	410.3
37.5°	497.3	497.3	489.0	453.0	441.8	440.3	441.8	445.5	446.3	440.3	434.3
40°	594.8	589.5	585.0	507.0	471.0	462.0	466.5	468.8	474.8	474.8	474.8
42.5°	695.3	696.0	694.5	591.0	523.5	501.0	501.8	507.0	519.8	522.0	528.8
45°	784.5	789.8	801.0	688.5	600.8	550.5	545.3	550.5	568.5	583.5	600.8
47.5°	854.3	848.3	873.0	790.5	689.3	618.0	604.5	606.0	630.8	654.8	681.8
50°	914.3	915.8	927.0	894.8	801.0	694.5	676.5	673.5	708.8	734.3	780.0
52.5°	981.8	977.3	993.8	986.3	909.8	788.3	759.8	750.8	789.0	825.0	874.5
55°	1014.0	1018.5	1052.3	1071.0	1012.5	872.3	840.8	843.8	884.3	922.5	991.5
57.5°	1071.0	1075.5	1114.5	1153.5	1104.0	961.5	933.8	933.8	979.5	1022.3	1128.8
60°	1149.0	1149.8	1189.5	1257.0	1184.3	1047.8	1029.8	1029.0	1078.5	1128.0	1290.8
62.5°	1183.5	1192.5	1251.8	1339.5	1289.3	1153.5	1132.5	1138.5	1182.8	1240.5	1471.5
65°	1137.0	1156.5	1280.3	1395.0	1383.0	1263.8	1255.5	1263.8	1290.8	1353.0	1662.8
67.5°	983.3	1009.5	1227.8	1432.5	1458.0	1391.3	1379.3	1377.8	1395.0	1464.8	1783.5
70°	903.8	919.5	1089.0	1446.8	1518.0	1520.3	1520.3	1510.5	1508.3	1559.3	1794.8
72.5°	744.0	760.5	918.8	1367.3	1575.0	1692.8	1710.0	1674.0	1618.5	1608.0	1606.5
75°	530.3	542.3	678.8	1075.5	1502.3	1858.5	1893.0	1823.3	1668.8	1501.5	1171.5
76°	369.8	387.0	530.3	918.8	1410.8	1861.5	1915.5	1834.5	1635.0	1410.0	965.3
77.5°	187.5	193.5	306.8	617.3	1180.5	1776.0	1828.5	1737.8	1488.0	1139.3	612.8
80°	71.3	73.5	109.5	225.0	648.0	1379.3	1399.5	1277.3	984.8	486.8	220.5
82.5°	37.5	39.0	61.5	111.0	266.3	758.3	855.8	712.5	386.3	146.3	64.5
85°	18.8	20.3	36.0	67.5	132.0	237.0	274.5	259.5	128.3	55.5	24.0
87.5°	7.5	9.0	18.0	30.0	53.3	46.5	51.8	66.8	41.3	26.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594504  
 CATALOG NUMBER: ISS-PA1A-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8	333.8
2.5°	332.3	331.5	332.3	331.5	332.3	332.3	333.0	331.5	331.5	333.0	330.8
5°	327.0	326.3	327.0	328.5	329.3	330.8	333.8	333.0	334.5	336.0	336.8
7.5°	324.8	324.0	326.3	327.0	329.3	332.3	336.8	339.8	341.3	344.3	342.8
10°	327.0	327.0	330.0	332.3	336.0	339.8	343.5	346.5	350.3	352.5	351.8
12.5°	330.8	330.0	335.3	338.3	343.5	347.3	350.3	351.8	354.8	357.8	357.0
15°	334.5	335.3	342.8	348.8	354.8	356.3	357.0	355.5	357.0	358.5	358.5
17.5°	342.0	342.8	351.0	357.8	363.0	361.5	357.8	354.0	354.0	354.8	355.5
20°	348.0	349.5	359.3	365.3	368.3	362.3	356.3	351.8	349.5	350.3	349.5
22.5°	354.8	357.8	367.5	370.5	366.0	358.5	351.0	345.0	345.0	345.8	345.8
25°	363.0	364.5	371.3	369.8	361.5	350.3	344.3	342.0	341.3	342.0	342.8
27.5°	370.5	371.3	375.0	364.5	348.8	336.8	334.5	335.3	336.0	336.8	337.5
30°	380.3	381.8	378.0	357.0	333.0	319.5	319.5	324.0	325.5	327.8	327.0
32.5°	392.3	393.8	382.5	347.3	312.8	299.3	300.0	306.8	311.3	312.8	313.5
35°	412.5	409.5	385.5	333.8	291.0	274.5	275.3	283.5	289.5	291.8	290.3
37.5°	437.3	436.5	390.0	316.5	264.0	249.0	249.8	253.5	259.5	260.3	261.0
40°	478.5	472.5	397.5	294.0	237.0	222.8	221.3	223.5	222.8	224.3	225.0
42.5°	537.8	522.0	407.3	268.5	213.0	198.0	196.5	192.8	188.3	183.8	181.5
45°	607.5	582.8	419.3	242.3	188.3	174.8	171.0	166.5	157.5	147.8	144.8
47.5°	697.5	650.3	432.8	216.0	165.0	154.5	151.5	144.8	134.3	123.0	120.8
50°	789.8	729.8	446.3	194.3	146.3	140.3	137.3	130.5	117.0	106.5	104.3
52.5°	897.0	808.5	460.5	174.8	129.8	129.8	127.5	117.0	104.3	94.5	93.0
55°	1020.8	889.5	483.0	156.0	117.8	120.8	117.8	107.3	95.3	88.5	87.8
57.5°	1168.5	992.3	511.5	135.8	107.3	109.5	109.5	102.0	93.8	89.3	88.5
60°	1317.0	1096.5	529.5	120.8	99.0	101.3	105.8	102.0	96.8	94.5	93.8
62.5°	1459.5	1203.0	498.8	108.0	90.8	97.5	108.8	109.5	104.3	105.0	105.0
65°	1566.0	1284.0	403.5	96.8	85.5	99.8	117.8	118.5	109.5	107.3	106.5
67.5°	1602.8	1306.5	271.5	89.3	82.5	101.3	128.3	125.3	109.5	105.0	102.8
70°	1533.0	1224.0	176.3	82.5	78.0	99.8	136.5	129.0	108.8	102.0	99.0
72.5°	1285.5	1044.0	117.8	76.5	73.5	98.3	141.8	129.0	106.5	96.8	93.8
75°	892.5	713.3	87.8	69.0	66.8	96.0	143.3	126.8	101.3	90.8	88.5
76°	716.3	534.8	79.5	66.0	63.8	94.5	142.5	124.5	97.5	87.8	85.5
77.5°	452.3	307.5	66.8	60.8	59.3	91.5	139.5	119.3	92.3	82.5	80.3
80°	158.3	112.5	51.0	49.5	50.3	84.8	131.3	108.8	81.8	72.8	69.8
82.5°	63.0	51.8	38.3	38.3	39.8	72.8	118.5	96.0	71.3	60.0	55.5
85°	24.8	22.5	27.0	27.0	28.5	59.3	99.0	75.0	48.8	37.5	36.0
87.5°	7.5	10.5	12.0	12.8	13.5	30.0	56.3	33.0	21.8	15.8	12.8
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)