

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: P594499

Luminaire Tested: **ISS-PA1A-827-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
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-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2266 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

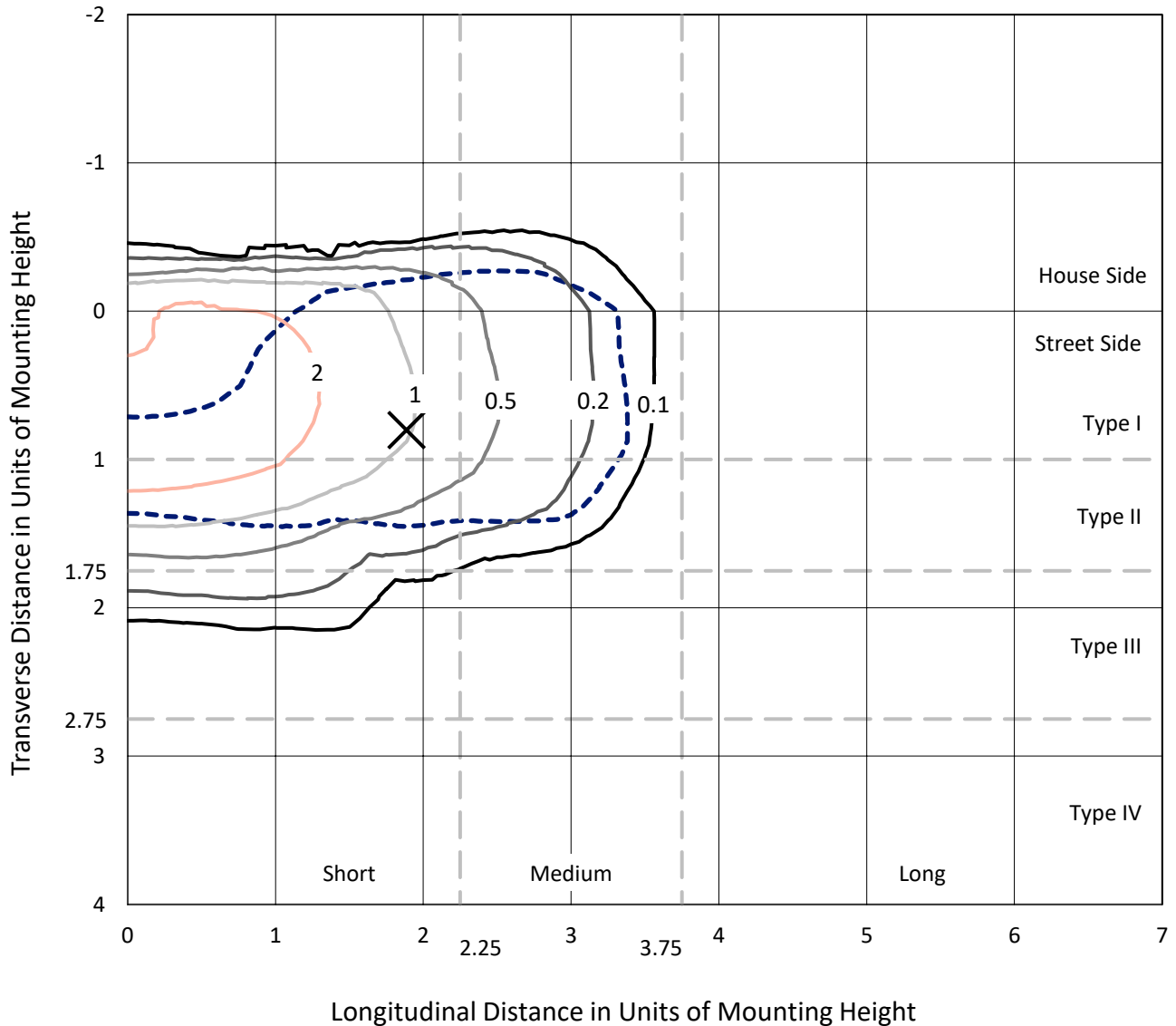
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594499  
 CATALOG NUMBER: ISS-PA1A-827-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

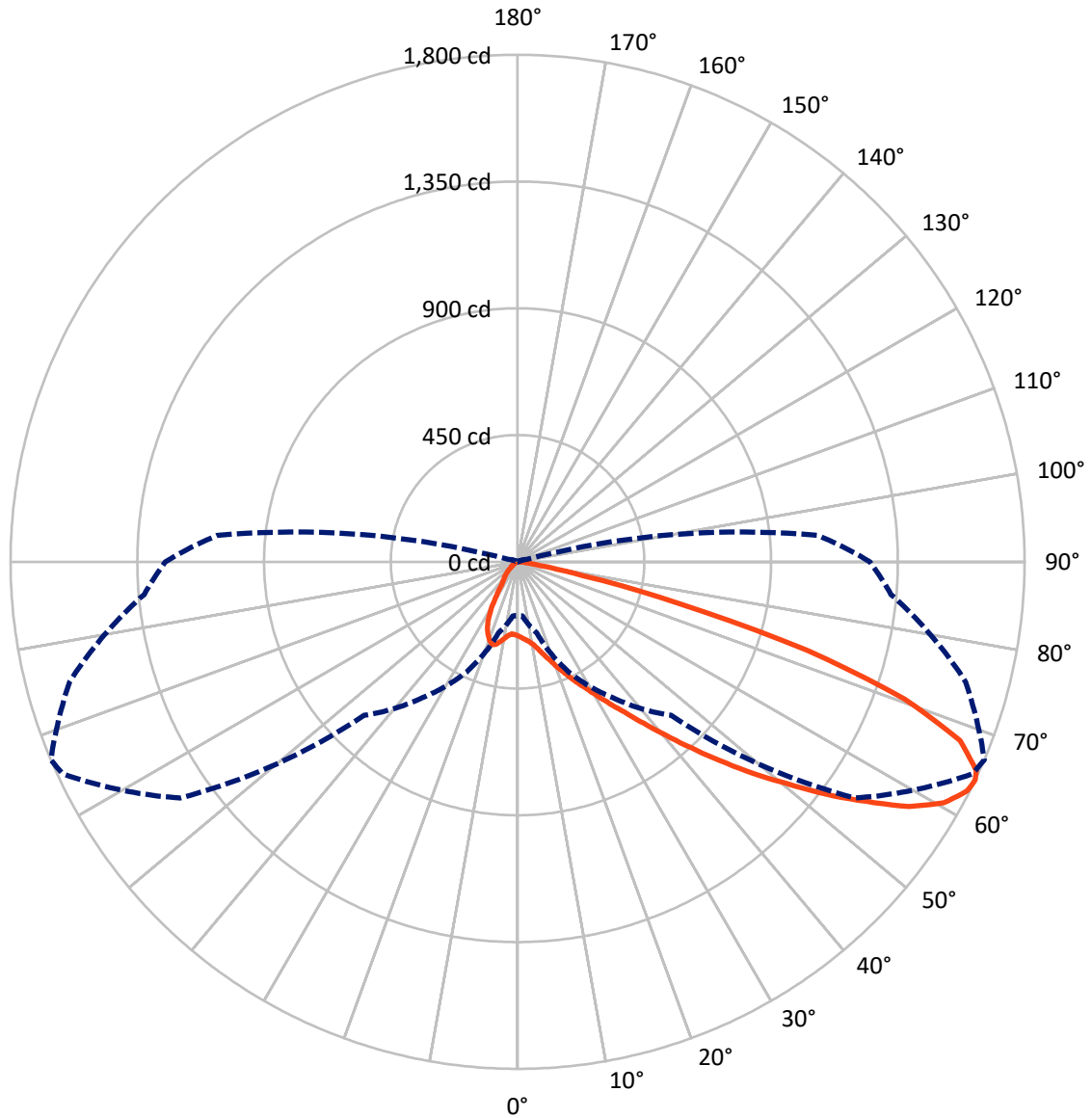
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P594499  
CATALOG NUMBER: ISS-PA1A-827-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P594499  
 CATALOG NUMBER: ISS-PA1A-827-U-T2U-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	289.9	0.0	289.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	1976.1	0.0	1976.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2266.0	0.0	2266.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.0	1.1
10°-20°	73.7	3.3
20°-30°	133.8	5.9
30°-40°	256.2	11.3
40°-50°	472.3	20.8
50°-60°	610.0	26.9
60°-70°	499.6	22.0
70°-80°	183.7	8.1
80°-90°	11.8	0.5
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°	2266.0	100.0
0°-180°	2266.0	100.0

**Coefficient of Utilization**



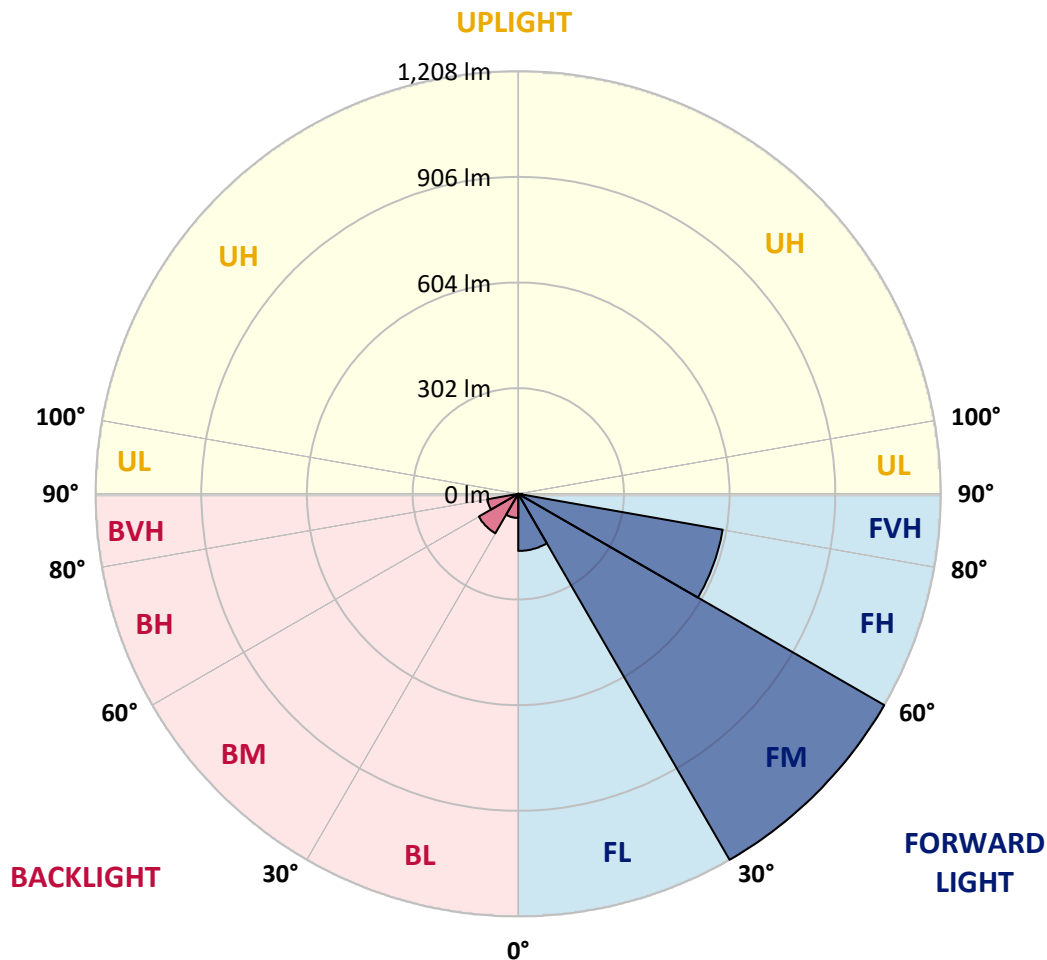
REPORT NUMBER: P594499  
 CATALOG NUMBER: ISS-PA1A-827-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.4	7.2			
FM (30°-60°)	1208.1	53.3			
FH (60°-80°)	593.3	26.2			G0/660
FVH (80°-90°)	11.3	0.5			G1/100
BL (0°-30°)	69.1	3.0	B0/110		
BM (30°-60°)	130.3	5.8	B0/220		
BH (60°-80°)	89.9	4.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Short





REPORT NUMBER: P594499  
 CATALOG NUMBER: ISS-PA1A-827-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3
2.5°	272.6	272.6	274.2	273.4	273.4	271.9	269.5	270.3	269.5	268.8	266.4
5°	268.0	268.8	269.5	271.1	274.2	275.8	275.8	276.5	276.5	275.8	272.6
7.5°	265.6	267.2	268.8	270.3	274.2	276.5	280.4	285.1	285.1	285.9	282.8
10°	274.2	275.8	278.1	280.4	284.3	288.2	291.3	296.8	296.8	298.4	297.6
12.5°	292.1	292.1	292.9	294.5	299.9	304.6	310.0	314.7	315.5	316.3	313.9
15°	313.9	313.9	314.7	314.7	317.8	324.8	335.0	339.6	338.9	338.1	333.4
17.5°	338.9	338.9	338.9	339.6	341.2	345.1	356.8	366.1	365.3	364.6	355.2
20°	362.2	363.8	365.3	366.1	367.7	370.8	383.3	394.2	396.5	393.4	377.0
22.5°	388.7	389.5	390.3	392.6	396.5	398.1	410.5	426.9	429.2	425.3	403.5
25°	415.2	416.8	419.1	422.2	426.1	433.9	442.5	464.3	466.6	461.9	432.3
27.5°	473.6	472.8	465.8	460.4	461.2	466.6	478.3	501.7	504.0	499.3	461.2
30°	573.3	564.0	550.7	526.6	503.2	505.6	521.9	544.5	548.4	542.2	493.1
32.5°	715.1	705.8	673.0	620.1	568.7	551.5	572.6	594.4	599.0	592.0	530.5
35°	853.0	850.7	819.5	755.6	668.4	620.9	626.3	654.4	655.9	647.3	577.2
37.5°	1023.6	1015.0	972.2	900.5	797.7	712.8	697.2	723.7	727.6	717.4	634.1
40°	1136.5	1133.4	1107.7	1057.1	946.5	839.7	783.7	809.4	808.6	793.8	699.5
42.5°	1202.0	1203.5	1202.0	1177.8	1114.7	992.4	898.2	899.7	902.1	886.5	775.1
45°	1246.4	1246.4	1248.7	1268.2	1244.0	1174.7	1037.6	1002.6	1005.7	981.5	853.8
47.5°	1245.6	1250.3	1262.7	1307.9	1340.6	1344.5	1212.1	1122.5	1121.0	1084.4	934.8
50°	1161.5	1158.4	1209.8	1311.0	1409.2	1484.8	1377.3	1249.5	1236.3	1191.1	1018.9
52.5°	972.2	982.3	1068.0	1216.8	1425.5	1579.8	1519.8	1388.2	1371.0	1297.0	1092.9
55°	807.0	817.9	901.3	1047.0	1336.7	1613.3	1615.6	1535.4	1501.1	1388.9	1169.3
57.5°	606.1	627.1	750.2	887.3	1142.0	1529.9	1649.9	1676.4	1639.0	1477.7	1231.6
60°	387.2	399.6	537.5	706.5	925.4	1311.8	1642.9	1758.2	1737.9	1558.8	1283.8
62.5°	253.2	260.2	355.2	532.0	705.0	988.5	1559.5	1790.9	1790.9	1613.3	1322.7
64°	190.9	192.4	260.2	432.3	588.1	770.4	1461.4	1780.8	1799.5	1646.0	1330.5
65°	151.1	151.9	203.3	359.1	528.2	631.8	1375.7	1759.0	1789.3	1658.5	1335.2
67.5°	105.9	108.3	131.6	207.2	378.6	364.6	1019.7	1656.1	1693.5	1662.4	1329.0
70°	91.9	95.0	110.6	135.5	270.3	211.9	542.2	1411.5	1455.9	1548.6	1237.0
72.5°	70.1	74.0	92.7	114.5	190.1	143.3	209.5	1002.6	1072.7	1197.3	1021.3
75°	50.6	52.2	68.6	93.5	133.2	110.6	90.4	517.2	588.1	706.5	634.9
77.5°	31.9	34.3	46.7	70.1	119.2	84.1	53.8	188.5	237.6	307.7	277.3
80°	18.7	19.5	28.0	48.3	80.2	62.3	34.3	67.0	81.0	114.5	74.0
82.5°	10.9	11.7	17.9	32.7	52.2	48.3	21.8	34.3	38.2	43.6	15.6
85°	3.9	3.9	12.5	19.5	28.0	24.1	12.5	17.9	19.5	24.1	4.7
87.5°	0.8	0.8	6.2	10.1	10.1	3.9	6.2	7.8	9.3	13.2	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



REPORT NUMBER: P594499  
 CATALOG NUMBER: ISS-PA1A-827-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3
2.5°	265.6	263.3	261.0	257.8	255.5	250.8	248.5	245.4	244.6	243.0	242.3
5°	271.9	268.0	262.5	254.7	250.1	243.0	238.4	233.7	232.9	231.4	230.6
7.5°	280.4	276.5	269.5	261.0	253.2	246.2	240.7	233.7	226.7	221.2	221.2
10°	294.5	289.8	280.4	272.6	263.3	248.5	222.8	199.4	184.6	175.3	172.2
12.5°	311.6	305.4	295.2	285.9	268.0	221.2	181.5	151.1	126.2	114.5	112.2
15°	329.5	324.1	313.9	299.9	246.2	184.6	132.4	85.7	61.5	50.6	52.2
17.5°	349.0	341.2	329.5	301.5	216.6	137.9	70.9	43.6	37.4	35.8	35.8
20°	369.2	359.1	347.4	284.3	178.4	79.5	40.5	32.7	30.4	28.0	28.8
22.5°	391.1	378.6	360.7	258.6	127.8	42.8	31.2	26.5	23.4	22.6	22.6
25°	414.4	396.5	373.9	229.0	74.0	32.7	25.7	21.0	18.7	17.9	17.1
27.5°	439.3	416.8	377.0	190.1	42.1	27.3	20.3	16.4	14.0	13.2	13.2
30°	461.9	437.0	370.0	141.0	31.9	22.6	16.4	12.5	10.9	10.9	10.9
32.5°	492.3	459.6	348.2	88.0	25.7	17.9	12.5	10.1	8.6	8.6	8.6
35°	532.0	493.1	326.4	46.7	21.0	14.8	10.1	7.8	7.0	7.0	7.0
37.5°	586.6	537.5	306.9	29.6	17.1	11.7	7.8	6.2	5.5	5.5	5.5
40°	642.7	590.5	279.7	22.6	14.0	9.3	6.2	4.7	3.9	3.9	4.7
42.5°	712.8	652.0	248.5	19.5	11.7	7.8	4.7	3.1	2.3	3.1	3.1
45°	783.7	716.7	204.9	16.4	10.1	6.2	3.1	1.6	1.6	2.3	2.3
47.5°	856.9	785.2	158.9	14.0	8.6	4.7	2.3	0.8	0.8	1.6	1.6
50°	932.4	853.0	118.4	12.5	7.0	3.9	1.6	0.8	0.0	0.8	0.8
52.5°	1008.0	918.4	91.9	10.9	6.2	3.1	0.8	0.0	0.0	0.0	0.8
55°	1078.1	977.6	73.2	9.3	5.5	2.3	0.8	0.0	0.0	0.0	0.0
57.5°	1137.3	1021.3	58.4	8.6	4.7	1.6	0.8	0.0	0.0	0.0	0.0
60°	1193.4	1055.5	45.2	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0
62.5°	1233.1	1068.8	36.6	6.2	3.1	1.6	0.0	0.0	0.0	0.0	0.0
64°	1250.3	1070.3	31.9	5.5	3.1	1.6	0.8	0.0	0.0	0.0	0.0
65°	1260.4	1065.7	29.6	5.5	3.1	1.6	0.8	0.0	0.0	0.0	0.0
67.5°	1262.7	1039.9	22.6	4.7	2.3	0.8	0.8	0.0	0.0	0.0	0.0
70°	1194.2	950.4	16.4	3.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	997.9	726.0	10.9	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	623.2	313.9	6.2	2.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	257.8	95.0	3.9	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	59.2	22.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.0	3.9	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.1	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.8	0.8	0.8	0.8	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)