

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: P594506

Luminaire Tested: **ISS-PA1A-830-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-830-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - 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

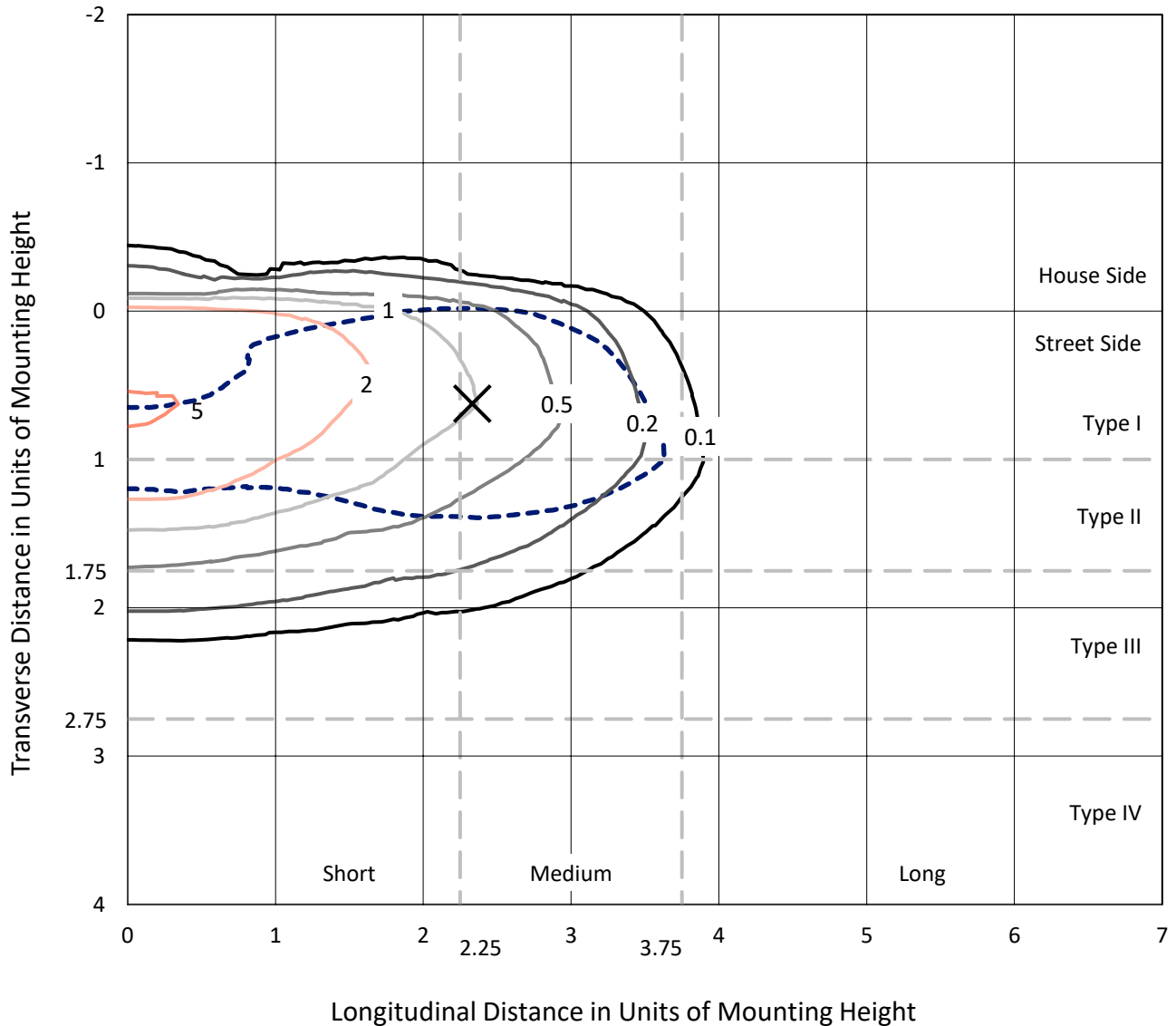




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Iso-Footcandle Lines of Horizontal Illumination

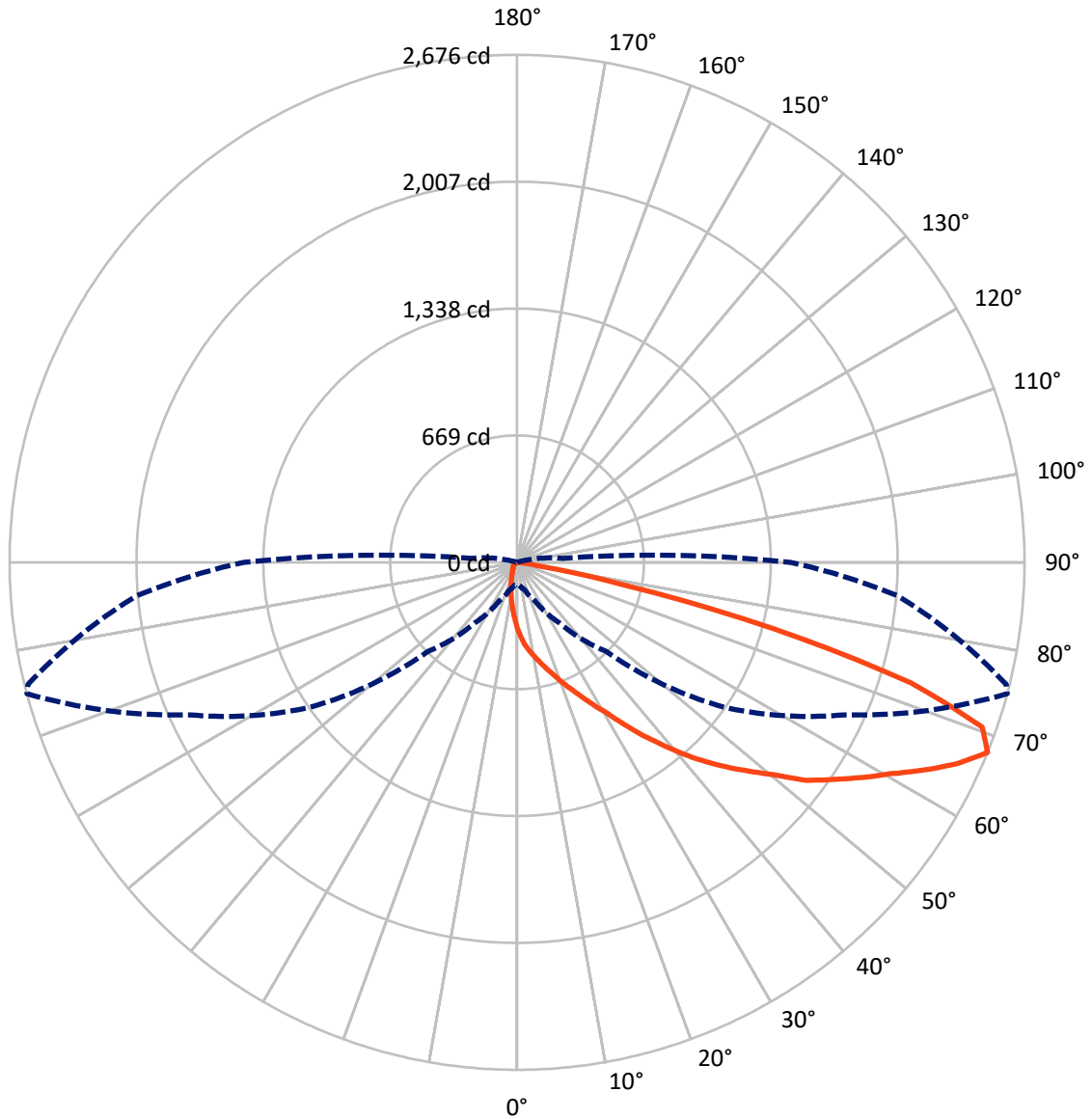
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	141.9	0.0	141.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2674.0	0.0	2674.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	2816.0	0.0	2816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	1.1
10°-20°	101.9	3.6
20°-30°	204.8	7.3
30°-40°	387.3	13.8
40°-50°	579.4	20.6
50°-60°	668.9	23.8
60°-70°	592.9	21.1
70°-80°	239.7	8.5
80°-90°	9.5	0.3
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°	2816.0	100.0
0°-180°	2816.0	100.0

Coefficient of Utilization

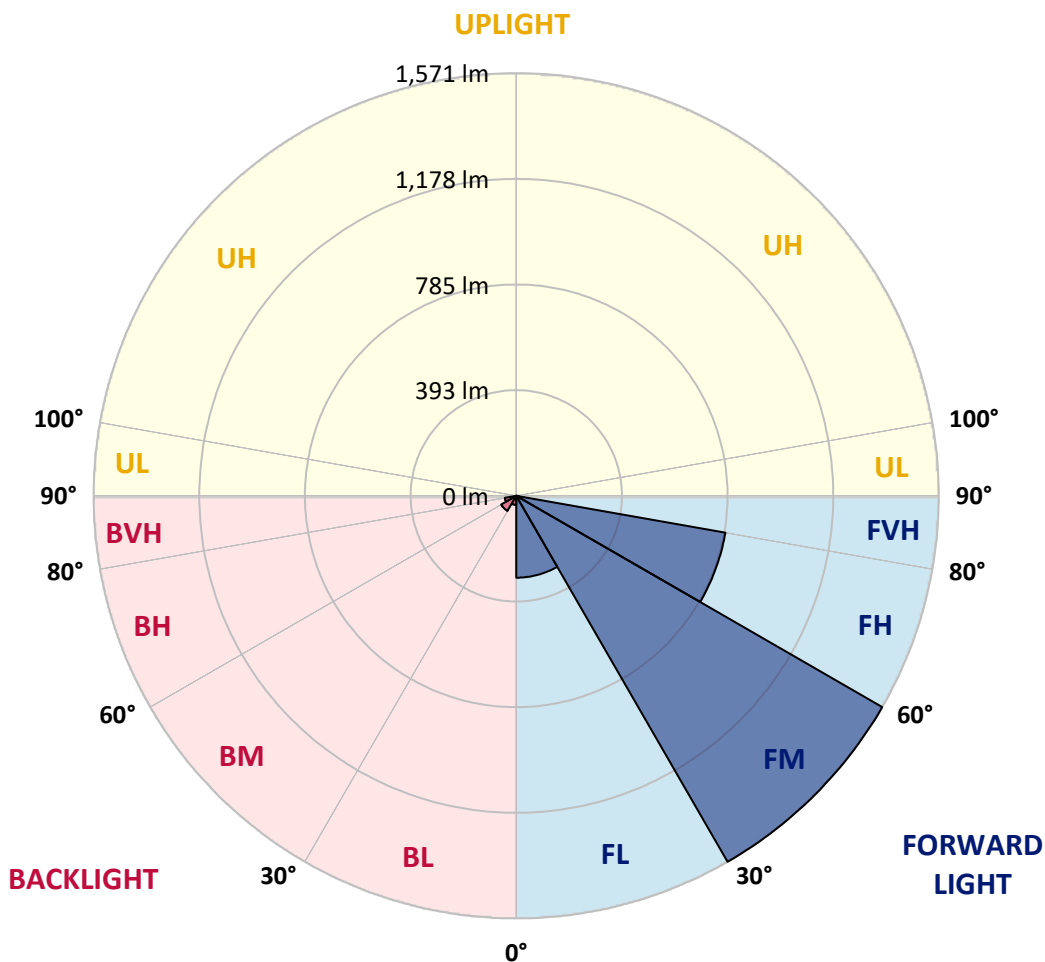


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.4	10.8			
FM (30°-60°)	1570.9	55.8			
FH (60°-80°)	789.6	28.0			G1/1800
FVH (80°-90°)	9.1	0.3			G0/10
BL (0°-30°)	33.7	1.2	B0/110		
BM (30°-60°)	64.8	2.3	B0/220		
BH (60°-80°)	43.0	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	486.9	488.6	485.2	477.6	470.8	454.8	442.1	419.3	394.8	394.8	365.2
5°	544.4	542.7	541.0	535.1	530.0	516.5	499.6	475.1	437.0	433.6	384.6
7.5°	572.3	570.6	567.2	564.7	564.7	555.4	539.3	514.0	471.7	468.3	402.4
10°	605.2	601.9	601.9	595.1	593.4	582.4	574.0	552.0	505.5	501.3	422.7
12.5°	644.1	640.8	641.6	635.7	633.1	621.3	609.5	588.3	541.8	537.6	446.3
15°	666.1	664.4	669.5	670.3	672.0	661.9	650.9	628.9	582.4	576.5	474.2
17.5°	678.8	678.8	684.7	695.7	708.4	702.5	694.0	676.3	623.8	620.5	503.8
20°	703.3	700.8	710.9	721.1	737.1	742.2	739.7	726.1	673.7	663.6	535.9
22.5°	743.9	740.5	749.8	762.5	781.9	783.6	785.3	778.5	724.4	714.3	569.7
25°	839.4	830.9	822.5	820.8	828.4	835.2	830.1	835.2	781.9	772.6	606.1
27.5°	1025.4	1011.0	970.4	925.6	894.3	900.3	884.2	893.5	847.9	836.0	639.9
30°	1203.7	1189.4	1156.4	1076.9	1005.1	973.0	949.3	945.9	915.5	902.0	678.8
32.5°	1328.0	1318.7	1296.7	1243.5	1153.9	1071.9	1026.2	1010.2	1005.9	984.8	728.7
35°	1412.5	1404.1	1388.9	1345.7	1279.8	1188.5	1109.9	1074.4	1106.5	1081.2	785.3
37.5°	1463.2	1457.3	1440.4	1410.8	1375.3	1315.3	1213.9	1157.2	1208.0	1184.3	858.0
40°	1500.4	1485.2	1473.4	1450.6	1438.7	1419.3	1332.2	1243.5	1317.9	1293.3	929.9
42.5°	1503.8	1497.1	1487.8	1474.2	1475.9	1488.6	1458.2	1343.2	1428.6	1405.8	1005.9
45°	1503.0	1496.2	1489.5	1475.9	1484.4	1531.7	1559.6	1448.0	1536.8	1513.1	1086.2
47.5°	1478.5	1473.4	1475.1	1475.1	1486.1	1550.3	1638.2	1554.5	1645.0	1622.2	1183.4
50°	1392.2	1397.3	1431.1	1448.9	1468.3	1551.2	1693.2	1666.1	1761.6	1745.6	1277.3
52.5°	1119.2	1147.9	1284.9	1378.7	1435.4	1534.3	1728.7	1783.6	1909.6	1885.1	1383.8
55°	855.5	857.2	989.0	1207.1	1370.3	1503.8	1749.0	1863.1	2022.0	2008.5	1477.6
57.5°	694.0	693.2	758.3	954.4	1201.2	1455.6	1754.0	1921.4	2141.2	2115.8	1585.8
60°	567.2	563.8	602.7	723.6	981.4	1342.4	1735.4	1968.7	2263.8	2254.5	1699.1
62.5°	410.0	413.4	464.9	558.8	756.6	1133.6	1695.7	1983.1	2411.7	2402.4	1825.9
65°	235.8	246.0	302.6	402.4	579.9	886.7	1582.4	1972.1	2556.2	2555.4	1943.4
67.5°	118.3	119.2	149.6	224.9	389.7	663.6	1332.2	1902.8	2676.3	2657.7	2011.0
70°	76.1	77.8	87.9	115.8	215.6	459.9	1017.8	1706.7	2601.0	2594.3	1912.1
72.5°	58.3	60.0	68.5	76.1	112.4	261.2	688.9	1326.3	2171.6	2153.0	1491.1
75°	45.6	46.5	54.9	61.7	75.2	122.6	345.7	826.7	1399.0	1350.8	848.7
77.5°	36.3	37.2	41.4	49.0	57.5	68.5	102.3	371.9	568.9	508.0	275.6
80°	23.7	24.5	31.3	38.0	49.0	44.8	39.7	107.4	121.7	109.9	49.0
82.5°	13.5	14.4	21.1	30.4	37.2	25.4	22.8	31.3	28.7	27.9	15.2
85°	4.2	4.2	14.4	21.1	16.9	7.6	14.4	11.0	9.3	8.5	5.1
87.5°	0.8	0.8	6.8	7.6	2.5	0.8	1.7	2.5	3.4	4.2	2.5
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°	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
2.5°	350.8	333.9	302.6	275.6	249.4	226.5	210.5	196.1	186.0	183.4	179.2
5°	353.3	320.4	260.4	209.6	165.7	130.2	109.9	96.4	89.6	85.4	85.4
7.5°	355.9	306.9	220.6	153.0	104.8	79.5	66.8	60.9	58.3	57.5	56.6
10°	361.0	296.7	186.8	109.9	71.9	60.0	54.9	52.4	50.7	49.9	49.9
12.5°	369.4	288.3	155.5	81.2	59.2	53.3	49.9	46.5	44.8	44.0	44.0
15°	380.4	282.3	128.5	65.1	54.1	48.2	44.0	40.6	38.0	37.2	37.2
17.5°	395.6	278.1	105.7	57.5	49.9	43.1	38.0	34.7	32.1	31.3	31.3
20°	410.8	278.1	87.1	53.3	45.6	38.0	33.0	28.7	26.2	25.4	25.4
22.5°	431.1	277.3	72.7	49.0	40.6	33.0	27.9	22.8	21.1	20.3	20.3
25°	448.0	277.3	62.6	44.8	35.5	28.7	22.8	18.6	16.9	16.1	16.1
27.5°	468.3	274.7	53.3	39.7	30.4	23.7	18.6	15.2	13.5	12.7	12.7
30°	486.1	271.3	47.3	35.5	26.2	19.4	15.2	11.8	11.0	11.0	11.0
32.5°	515.6	268.8	42.3	30.4	22.0	16.1	11.8	9.3	8.5	8.5	8.5
35°	551.1	268.8	38.9	26.2	18.6	13.5	9.3	7.6	6.8	6.8	6.8
37.5°	597.6	271.3	34.7	22.8	15.2	11.0	7.6	5.9	5.1	5.1	5.1
40°	646.7	277.3	31.3	20.3	13.5	8.5	5.9	4.2	3.4	4.2	4.2
42.5°	705.0	283.2	27.9	17.8	11.0	6.8	4.2	2.5	1.7	2.5	2.5
45°	762.5	289.1	26.2	15.2	9.3	5.1	2.5	1.7	0.8	1.7	1.7
47.5°	833.5	303.5	24.5	13.5	7.6	4.2	1.7	0.8	0.0	0.8	0.8
50°	915.5	319.5	22.0	11.0	5.9	3.4	1.7	0.0	0.0	0.0	0.0
52.5°	994.1	333.1	19.4	9.3	5.1	2.5	0.8	0.0	0.0	0.0	0.0
55°	1072.7	341.5	16.9	7.6	4.2	2.5	0.8	0.0	0.0	0.0	0.0
57.5°	1157.2	346.6	15.2	6.8	3.4	1.7	0.8	0.0	0.0	0.0	0.0
60°	1251.1	346.6	12.7	5.9	2.5	1.7	0.8	0.0	0.0	0.0	0.0
62.5°	1355.0	336.4	11.8	5.1	2.5	1.7	0.8	0.0	0.0	0.0	0.0
65°	1439.6	300.1	10.1	4.2	2.5	1.7	0.8	0.0	0.0	0.0	0.0
67.5°	1443.0	237.5	9.3	3.4	2.5	1.7	0.8	0.0	0.0	0.0	0.0
70°	1286.6	162.3	7.6	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0
72.5°	962.8	87.1	6.8	2.5	1.7	0.8	0.8	0.0	0.0	0.0	0.0
75°	519.0	33.8	4.2	2.5	1.7	0.8	0.8	0.0	0.0	0.0	0.0
77.5°	151.3	16.9	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0
80°	27.9	8.5	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	7.6	3.4	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)