

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: P594458

Luminaire Tested: **ISS-PA1A-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-730-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2882 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

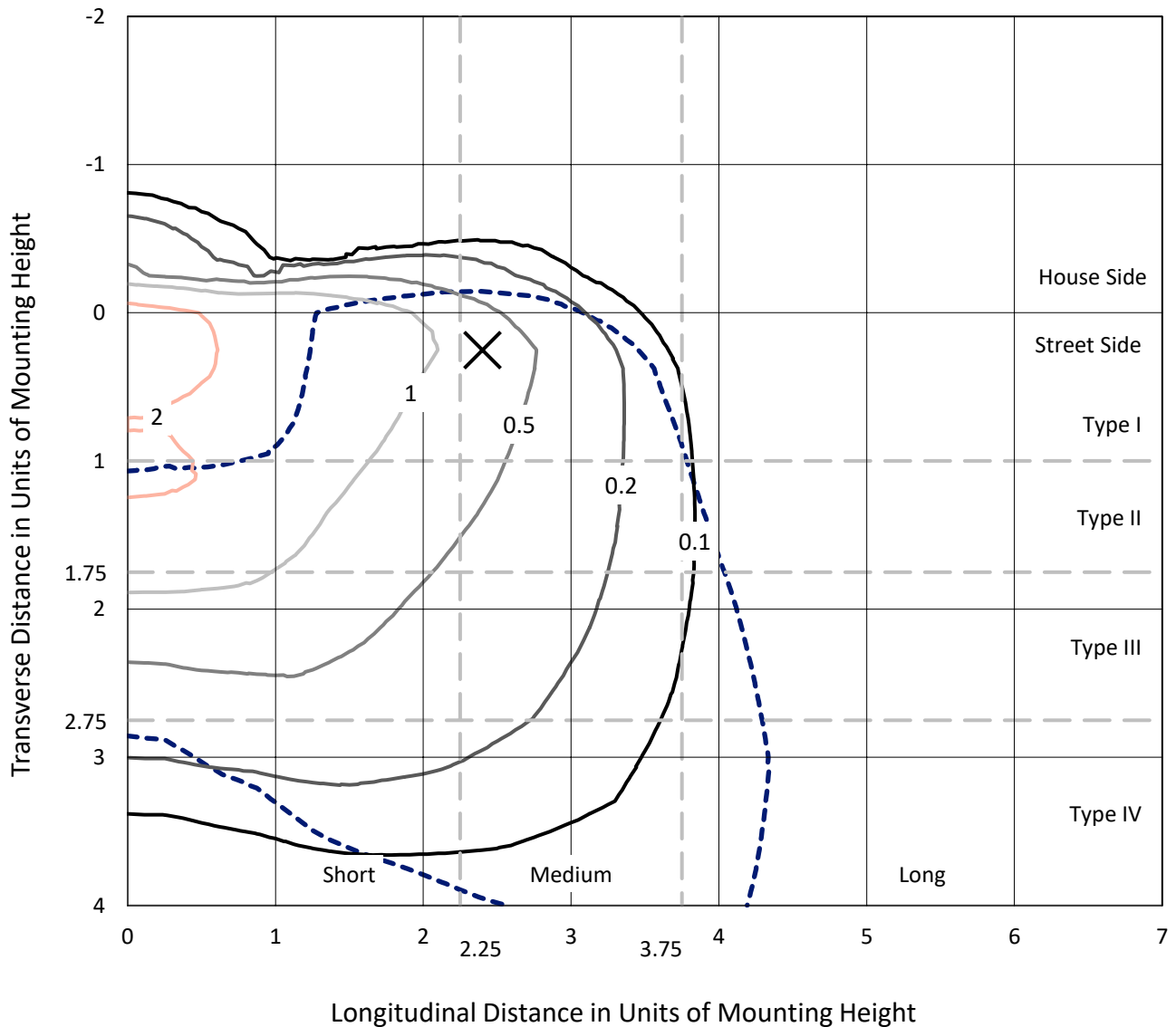
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594458
 CATALOG NUMBER: ISS-PA1A-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

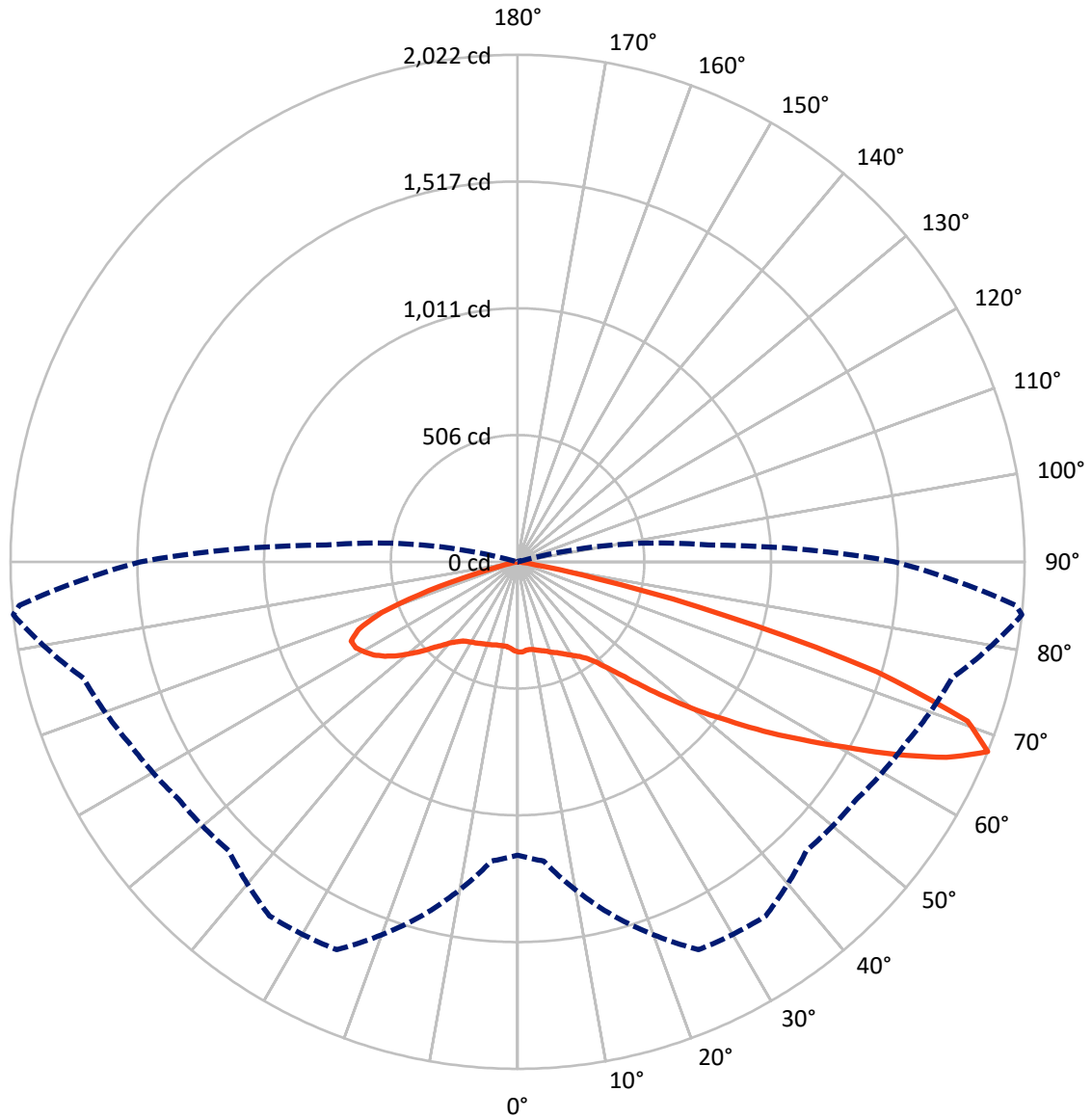
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594458
CATALOG NUMBER: ISS-PA1A-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P594458
 CATALOG NUMBER: ISS-PA1A-730-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	250.9	0.0	250.9
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2631.1	0.0	2631.1
	% Fixture	91.3	0.0	91.3
Total	Lumens	2882.0	0.0	2882.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	1.1
10°-20°	84.2	2.9
20°-30°	134.9	4.7
30°-40°	194.1	6.7
40°-50°	333.1	11.6
50°-60°	582.0	20.2
60°-70°	833.5	28.9
70°-80°	626.5	21.7
80°-90°	61.5	2.1
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°	2882.0	100.0
0°-180°	2882.0	100.0

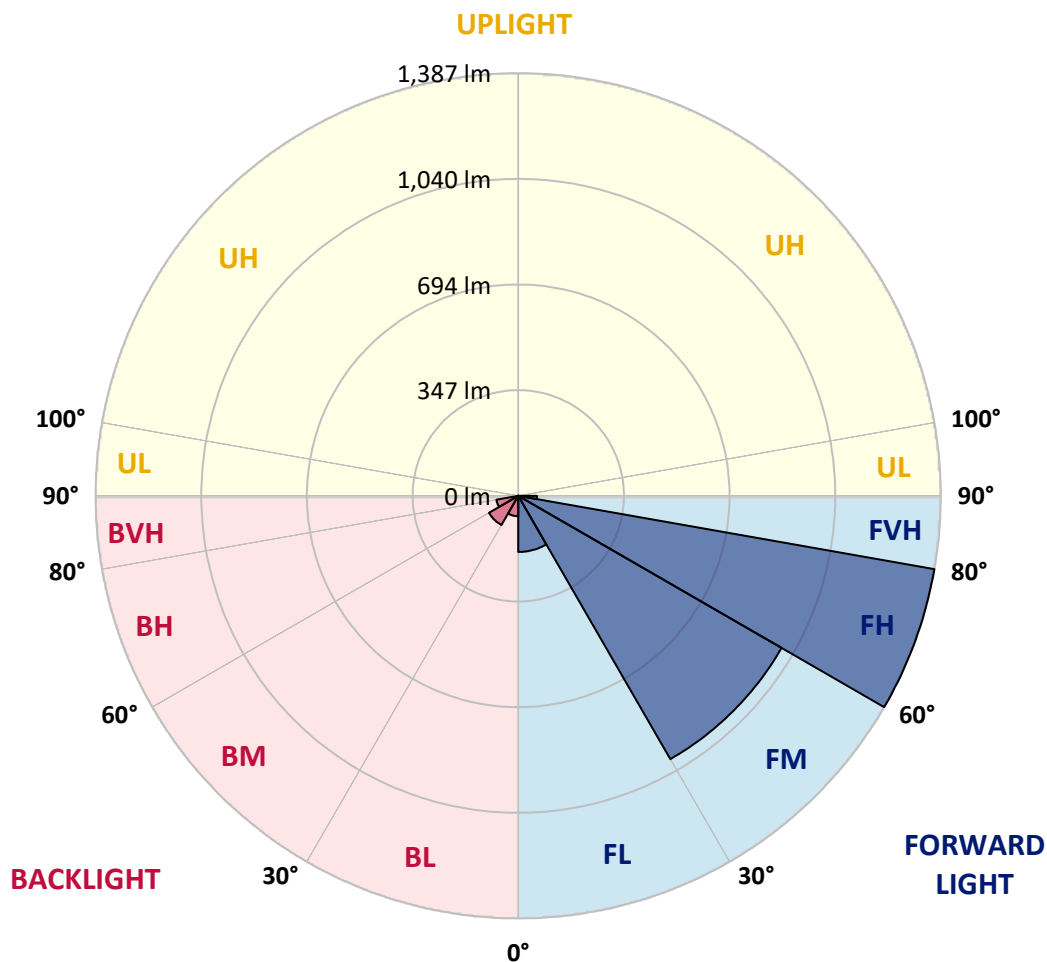


REPORT NUMBER: P594458
 CATALOG NUMBER: ISS-PA1A-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.3	6.4			
FM (30°-60°)	998.3	34.6			
FH (60°-80°)	1387.2	48.1			G1/1800
FVH (80°-90°)	61.3	2.1			G1/100
BL (0°-30°)	67.0	2.3	B0/110		
BM (30°-60°)	111.0	3.9	B0/220		
BH (60°-80°)	72.7	2.5	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 IV Medium





REPORT NUMBER: P594458
 CATALOG NUMBER: ISS-PA1A-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1
2.5°	379.5	381.4	382.4	377.6	377.6	373.7	367.8	365.9	363.0	360.0	359.1
5°	399.0	401.9	400.9	395.1	392.1	384.4	376.6	368.8	361.0	354.2	354.2
7.5°	421.3	422.3	419.4	409.7	403.8	393.1	381.4	372.7	363.0	353.2	351.3
10°	440.8	439.8	435.9	426.2	415.5	401.9	389.2	379.5	367.8	356.1	355.2
12.5°	454.4	455.4	450.5	436.9	426.2	410.6	398.0	388.3	374.6	362.0	359.1
15°	466.1	469.0	463.2	449.6	434.0	420.4	410.6	398.0	382.4	367.8	365.9
17.5°	476.8	477.8	472.9	457.3	442.7	431.1	420.4	408.7	393.1	374.6	372.7
20°	482.6	485.6	482.6	463.2	449.6	440.8	432.0	420.4	402.9	385.3	383.4
22.5°	486.5	489.5	488.5	467.1	455.4	448.6	440.8	430.1	413.6	393.1	391.2
25°	488.5	490.4	492.4	471.0	461.2	458.3	451.5	441.8	426.2	404.8	402.9
27.5°	491.4	493.3	495.3	475.8	471.9	469.0	467.1	459.3	440.8	418.4	415.5
30°	496.3	499.2	501.1	484.6	484.6	487.5	487.5	476.8	456.4	433.0	431.1
32.5°	502.1	503.1	507.0	493.3	498.2	505.0	503.1	492.4	471.0	449.6	446.6
35°	517.7	517.7	524.5	507.0	512.8	518.6	520.6	512.8	493.3	471.9	471.0
37.5°	555.6	555.6	561.5	533.2	532.3	538.1	544.9	544.9	525.5	506.0	504.0
40°	641.3	641.3	641.3	576.1	565.4	572.2	582.9	588.7	572.2	558.5	558.5
42.5°	784.3	785.3	770.7	654.9	609.1	620.8	632.5	645.1	636.4	626.7	624.7
45°	932.2	927.3	925.4	770.7	687.0	681.1	695.7	717.2	720.1	714.2	718.1
47.5°	1033.4	1038.3	1041.2	914.7	796.0	756.1	769.7	799.9	817.4	816.4	822.2
50°	1131.7	1134.6	1137.5	1073.3	940.0	850.5	859.2	900.1	924.4	932.2	936.1
52.5°	1217.3	1209.5	1222.2	1213.4	1092.8	958.5	958.5	1005.2	1049.0	1051.9	1050.9
55°	1242.6	1247.5	1285.4	1311.7	1249.4	1090.8	1071.3	1121.0	1167.7	1192.0	1192.0
57.5°	1299.0	1303.9	1349.6	1409.0	1363.3	1221.2	1192.0	1240.7	1291.3	1338.0	1344.8
60°	1373.0	1374.0	1422.6	1513.1	1449.9	1338.9	1314.6	1370.1	1420.7	1500.5	1522.9
62.5°	1412.9	1416.8	1483.9	1602.6	1558.9	1442.1	1436.2	1486.8	1552.0	1692.2	1712.6
65°	1351.6	1376.9	1522.9	1656.2	1647.4	1538.4	1558.9	1599.7	1674.7	1880.0	1899.4
67.5°	1169.6	1197.8	1458.6	1706.8	1724.3	1628.9	1650.3	1709.7	1792.4	2022.0	1994.8
70°	1077.2	1100.5	1302.9	1735.0	1788.5	1730.1	1739.8	1795.3	1819.6	1903.3	1874.1
72.5°	816.4	840.7	1102.5	1638.6	1844.0	1836.2	1811.9	1766.1	1622.1	1497.6	1426.5
75°	361.0	389.2	733.7	1280.6	1706.8	1896.5	1768.1	1512.1	1164.8	850.5	788.2
77.5°	159.6	176.1	284.1	711.3	1282.5	1641.6	1398.3	1008.1	584.8	316.2	293.9
80°	51.6	53.5	89.5	249.1	655.8	1086.9	856.3	484.6	180.0	74.0	69.1
82.5°	20.4	22.4	42.8	105.1	271.5	432.0	420.4	175.2	52.5	19.5	19.5
85°	5.8	6.8	21.4	55.5	96.3	121.6	148.9	58.4	28.2	5.8	5.8
87.5°	1.9	1.9	7.8	17.5	18.5	12.6	28.2	22.4	17.5	1.9	1.9
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: P594458
 CATALOG NUMBER: ISS-PA1A-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1	359.1
2.5°	357.1	355.2	350.3	346.4	344.5	341.5	337.7	335.7	335.7	334.7	331.8
5°	350.3	347.4	338.6	332.8	327.9	317.2	309.4	299.7	290.0	287.1	290.0
7.5°	347.4	341.5	329.9	318.2	297.8	269.5	251.1	230.6	223.8	215.0	216.0
10°	348.4	341.5	325.0	298.7	258.8	217.0	187.8	160.6	146.9	140.1	141.1
12.5°	351.3	343.5	320.1	272.5	215.0	164.4	119.7	98.3	94.4	94.4	94.4
15°	357.1	345.4	312.4	241.3	168.3	109.0	84.7	82.7	85.6	88.5	89.5
17.5°	363.0	351.3	300.7	209.2	122.6	81.7	78.8	78.8	81.7	84.7	85.6
20°	369.8	357.1	284.1	175.2	87.6	76.9	75.9	74.9	76.9	79.8	80.8
22.5°	380.5	363.0	264.7	135.3	75.9	74.0	72.0	71.0	72.0	74.9	75.9
25°	390.2	370.7	244.2	100.2	71.0	69.1	68.1	67.1	67.1	69.1	70.1
27.5°	401.9	379.5	221.9	74.9	65.2	64.2	63.2	62.3	61.3	63.2	64.2
30°	416.5	387.3	197.5	63.2	59.4	58.4	57.4	56.4	55.5	56.4	57.4
32.5°	435.0	398.0	169.3	57.4	54.5	51.6	50.6	50.6	49.6	49.6	50.6
35°	459.3	409.7	139.1	53.5	49.6	46.7	43.8	42.8	42.8	42.8	43.8
37.5°	495.3	431.1	110.0	49.6	45.7	40.9	37.9	35.0	35.0	35.0	35.0
40°	544.9	454.4	85.6	46.7	42.8	36.0	32.1	28.2	26.3	25.3	26.3
42.5°	621.8	489.5	66.2	42.8	40.9	32.1	26.3	21.4	17.5	16.5	17.5
45°	706.4	527.4	52.5	39.9	37.0	27.2	20.4	14.6	10.7	9.7	10.7
47.5°	813.5	575.1	44.8	36.0	32.1	22.4	14.6	7.8	4.9	5.8	5.8
50°	916.6	621.8	40.9	33.1	28.2	18.5	8.8	3.9	1.9	2.9	2.9
52.5°	1030.5	671.4	37.9	29.2	24.3	13.6	4.9	1.0	0.0	1.0	1.0
55°	1145.3	716.2	35.0	26.3	19.5	9.7	1.9	0.0	0.0	0.0	1.0
57.5°	1269.9	754.1	32.1	22.4	14.6	5.8	1.0	0.0	0.0	0.0	0.0
60°	1374.0	783.3	29.2	19.5	9.7	2.9	0.0	0.0	0.0	0.0	0.0
62.5°	1469.3	809.6	22.4	14.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
65°	1532.6	815.4	15.6	9.7	3.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1504.4	764.8	9.7	6.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0
70°	1322.4	642.2	6.8	3.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	925.4	414.5	5.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	488.5	149.9	3.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	173.2	33.1	1.9	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	37.9	6.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)