

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: P594508

Luminaire Tested: **ISS-PA1A-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594508
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-830-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 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: 2450 lumens
Efficiency: N/A
Efficacy: 84.8 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

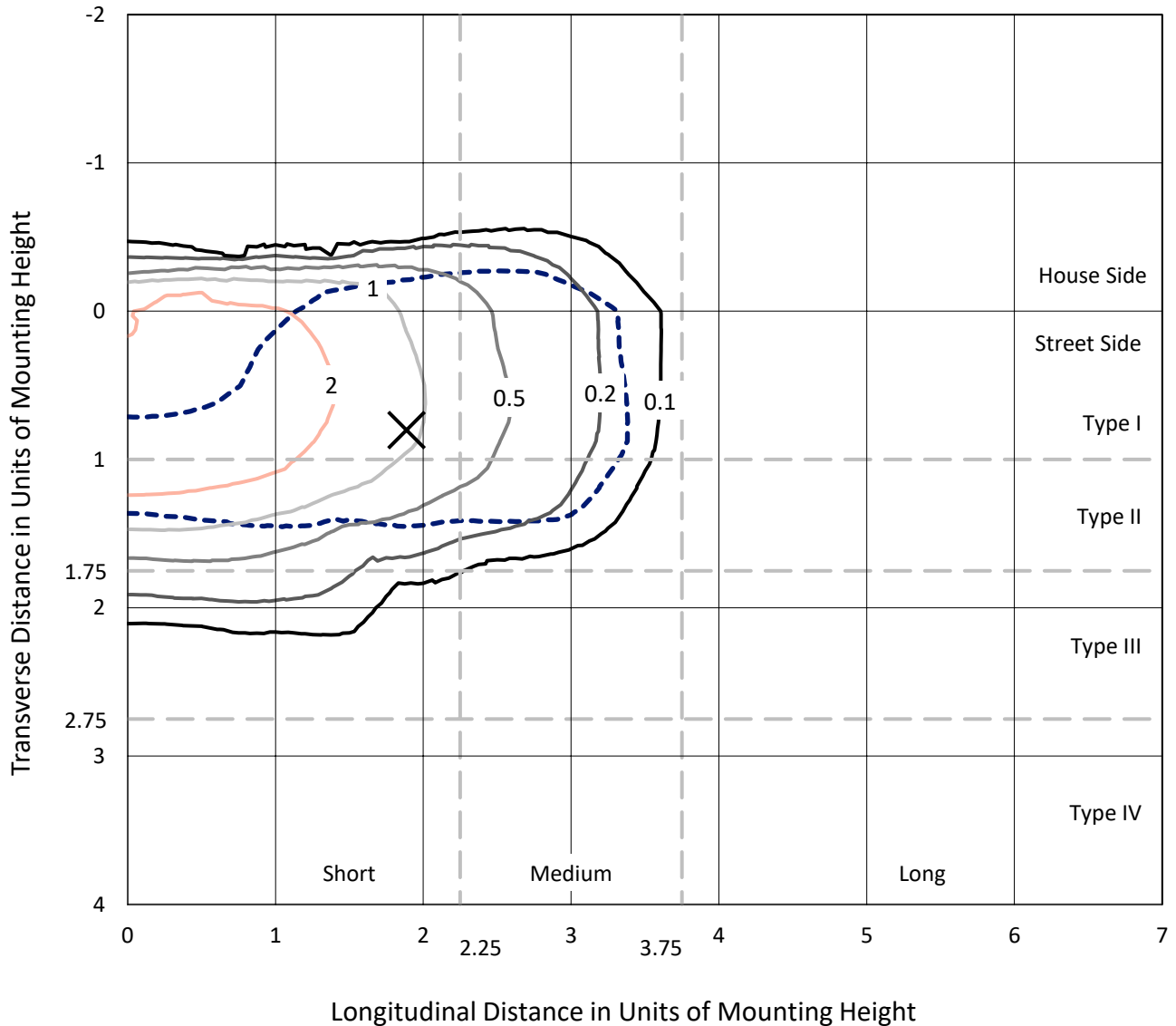
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

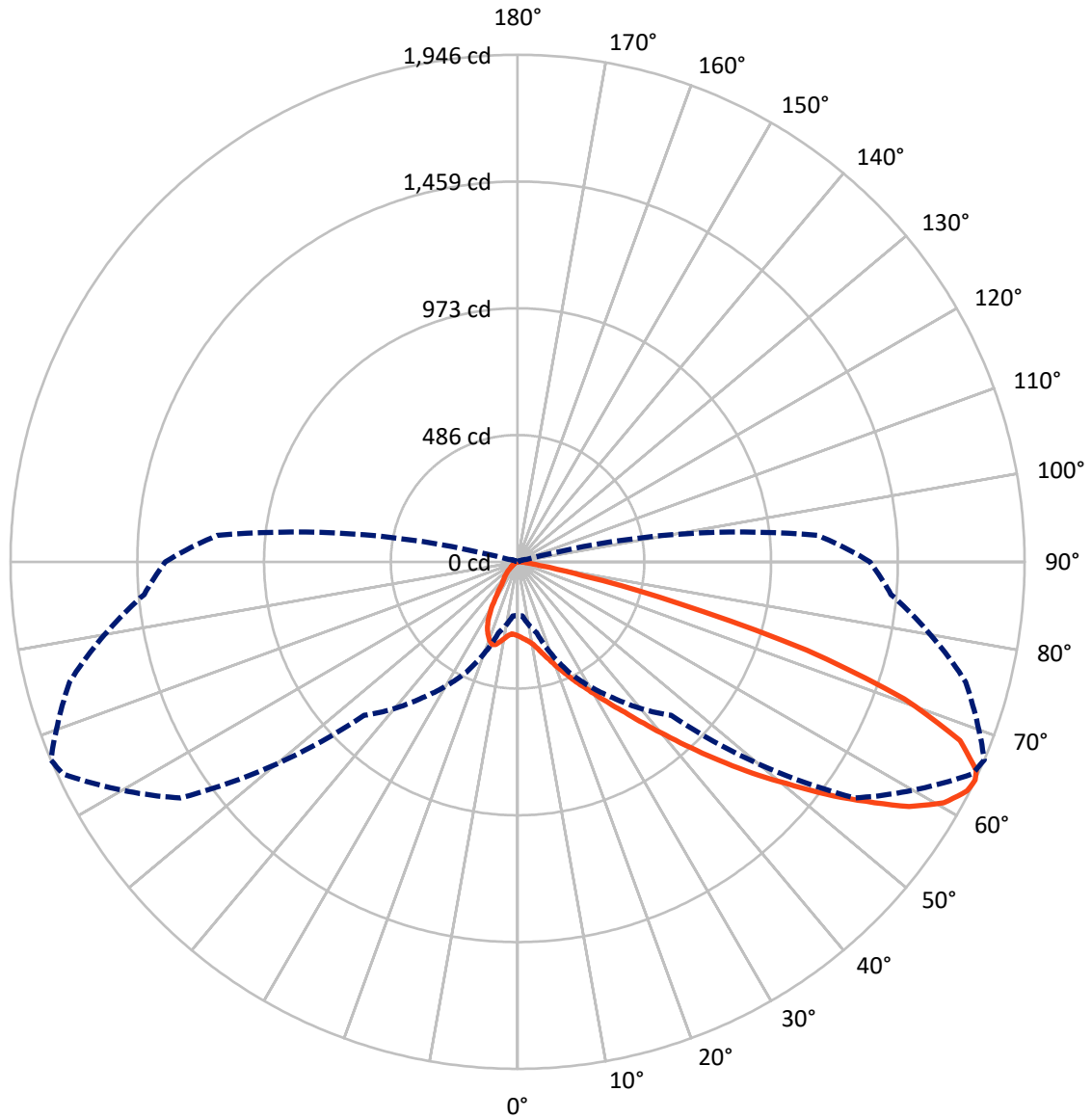
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	313.4	0.0	313.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2136.6	0.0	2136.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	2450.0	0.0	2450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	1.1
10°-20°	79.7	3.3
20°-30°	144.6	5.9
30°-40°	277.0	11.3
40°-50°	510.6	20.8
50°-60°	659.5	26.9
60°-70°	540.2	22.0
70°-80°	198.6	8.1
80°-90°	12.8	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°	2450.0	100.0
0°-180°	2450.0	100.0

Coefficient of Utilization



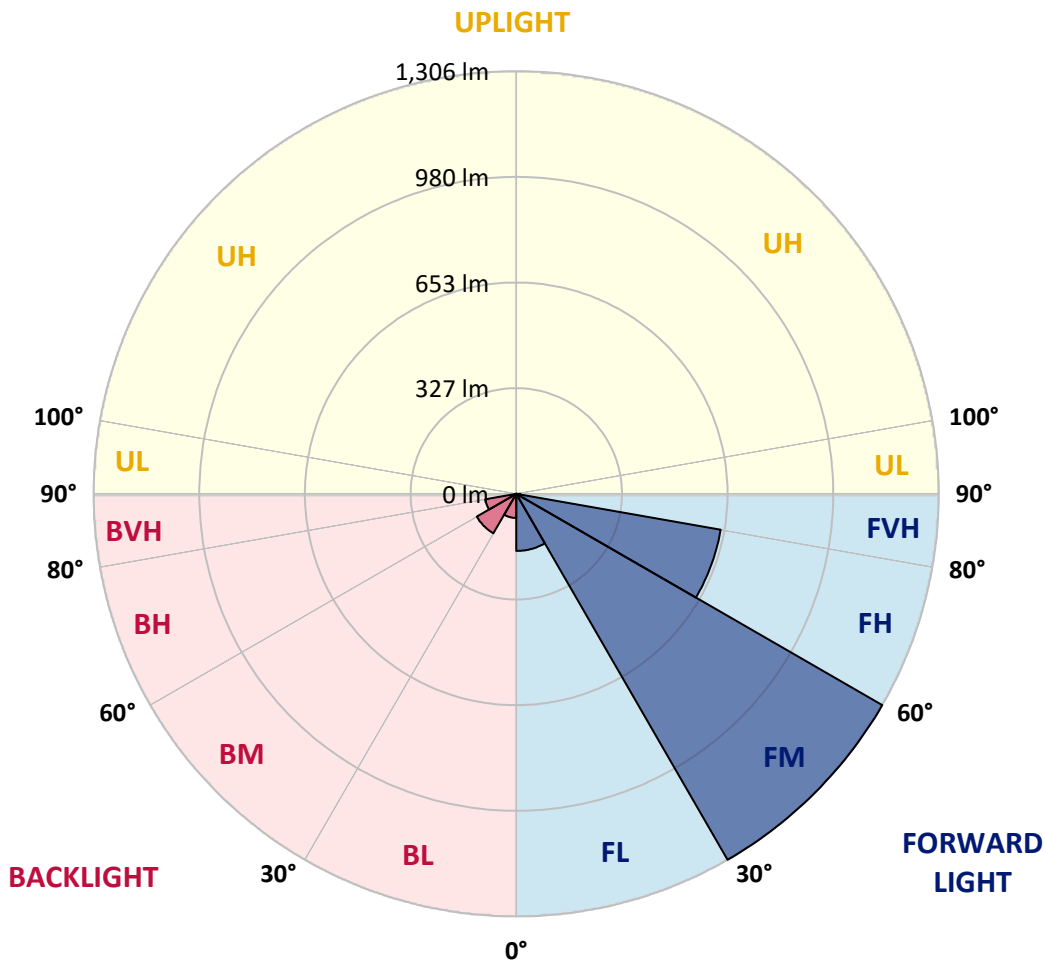
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.6	7.2			
FM (30°-60°)	1306.2	53.3			
FH (60°-80°)	641.5	26.2			G0/660
FVH (80°-90°)	12.2	0.5			G1/100
BL (0°-30°)	74.7	3.0	B0/110		
BM (30°-60°)	140.9	5.8	B0/220		
BH (60°-80°)	97.2	4.0	B0/110		G0/110
BVH (80°-90°)	0.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	294.8	294.8	296.5	295.6	295.6	293.9	291.4	292.3	291.4	290.6	288.0
5°	289.7	290.6	291.4	293.1	296.5	298.2	298.2	299.0	299.0	298.2	294.8
7.5°	287.2	288.9	290.6	292.3	296.5	299.0	303.2	308.3	308.3	309.1	305.7
10°	296.5	298.2	300.7	303.2	307.4	311.6	315.0	320.9	320.9	322.6	321.7
12.5°	315.8	315.8	316.7	318.4	324.3	329.3	335.2	340.3	341.1	342.0	339.4
15°	339.4	339.4	340.3	340.3	343.6	351.2	362.2	367.2	366.4	365.5	360.5
17.5°	366.4	366.4	366.4	367.2	368.9	373.1	385.7	395.9	395.0	394.2	384.1
20°	391.6	393.3	395.0	395.9	397.5	400.9	414.4	426.2	428.7	425.3	407.6
22.5°	420.3	421.1	422.0	424.5	428.7	430.4	443.9	461.5	464.1	459.9	436.3
25°	448.9	450.6	453.1	456.5	460.7	469.1	478.4	502.0	504.5	499.4	467.4
27.5°	512.1	511.2	503.7	497.8	498.6	504.5	517.1	542.4	544.9	539.9	498.6
30°	619.9	609.8	595.5	569.4	544.1	546.6	564.3	588.7	592.9	586.2	533.1
32.5°	773.2	763.1	727.7	670.4	614.8	596.3	619.0	642.6	647.7	640.1	573.6
35°	922.3	919.7	886.0	817.0	722.6	671.3	677.2	707.5	709.2	699.9	624.1
37.5°	1106.7	1097.4	1051.1	973.6	862.5	770.7	753.8	782.4	786.7	775.7	685.6
40°	1228.8	1225.5	1197.7	1142.9	1023.3	907.9	847.3	875.1	874.2	858.2	756.3
42.5°	1299.6	1301.3	1299.6	1273.5	1205.2	1073.0	971.1	972.8	975.3	958.5	838.0
45°	1347.6	1347.6	1350.1	1371.2	1345.1	1270.1	1121.9	1084.0	1087.3	1061.2	923.1
47.5°	1346.7	1351.8	1365.3	1414.1	1449.5	1453.7	1310.5	1213.7	1212.0	1172.4	1010.7
50°	1255.8	1252.4	1308.0	1417.5	1523.6	1605.3	1489.1	1351.0	1336.6	1287.8	1101.7
52.5°	1051.1	1062.1	1154.7	1315.6	1541.3	1708.1	1643.2	1500.9	1482.3	1402.3	1181.7
55°	872.6	884.4	974.5	1132.0	1445.3	1744.3	1746.8	1660.1	1623.0	1501.7	1264.2
57.5°	655.3	678.0	811.1	959.3	1234.7	1654.2	1783.9	1812.5	1772.1	1597.7	1331.6
60°	418.6	432.1	581.1	763.9	1000.6	1418.3	1776.3	1900.9	1879.0	1685.3	1388.0
62.5°	273.7	281.3	384.1	575.3	762.2	1068.8	1686.2	1936.3	1936.3	1744.3	1430.1
64°	206.3	208.0	281.3	467.4	635.9	833.0	1580.0	1925.4	1945.6	1779.7	1438.5
65°	163.4	164.2	219.8	388.3	571.0	683.1	1487.4	1901.8	1934.6	1793.1	1443.6
67.5°	114.5	117.1	142.3	224.0	409.3	394.2	1102.5	1790.6	1831.0	1797.3	1436.9
70°	99.4	102.8	119.6	146.6	292.3	229.1	586.2	1526.1	1574.2	1674.4	1337.5
72.5°	75.8	80.0	100.2	123.8	205.5	155.0	226.6	1084.0	1159.8	1294.5	1104.2
75°	54.7	56.4	74.1	101.1	144.0	119.6	97.7	559.2	635.9	763.9	686.4
77.5°	34.5	37.1	50.5	75.8	128.9	91.0	58.1	203.8	256.9	332.7	299.8
80°	20.2	21.1	30.3	52.2	86.8	67.4	37.1	72.4	87.6	123.8	80.0
82.5°	11.8	12.6	19.4	35.4	56.4	52.2	23.6	37.1	41.3	47.2	16.8
85°	4.2	4.2	13.5	21.1	30.3	26.1	13.5	19.4	21.1	26.1	5.1
87.5°	0.8	0.8	6.7	10.9	10.9	4.2	6.7	8.4	10.1	14.3	1.7
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°	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7	284.7
2.5°	287.2	284.7	282.2	278.8	276.3	271.2	268.7	265.3	264.5	262.8	261.9
5°	293.9	289.7	283.8	275.4	270.4	262.8	257.7	252.7	251.8	250.1	249.3
7.5°	303.2	299.0	291.4	282.2	273.7	266.1	260.3	252.7	245.1	239.2	239.2
10°	318.4	313.3	303.2	294.8	284.7	268.7	240.9	215.6	199.6	189.5	186.1
12.5°	336.9	330.2	319.2	309.1	289.7	239.2	196.2	163.4	136.4	123.8	121.3
15°	356.3	350.4	339.4	324.3	266.1	199.6	143.2	92.6	66.5	54.7	56.4
17.5°	377.3	368.9	356.3	325.9	234.1	149.1	76.6	47.2	40.4	38.7	38.7
20°	399.2	388.3	375.6	307.4	192.9	85.9	43.8	35.4	32.8	30.3	31.2
22.5°	422.8	409.3	390.0	279.6	138.1	46.3	33.7	28.6	25.3	24.4	24.4
25°	448.1	428.7	404.3	247.6	80.0	35.4	27.8	22.7	20.2	19.4	18.5
27.5°	475.0	450.6	407.6	205.5	45.5	29.5	21.9	17.7	15.2	14.3	14.3
30°	499.4	472.5	400.1	152.4	34.5	24.4	17.7	13.5	11.8	11.8	11.8
32.5°	532.3	496.9	376.5	95.2	27.8	19.4	13.5	10.9	9.3	9.3	9.3
35°	575.3	533.1	352.9	50.5	22.7	16.0	10.9	8.4	7.6	7.6	7.6
37.5°	634.2	581.1	331.8	32.0	18.5	12.6	8.4	6.7	5.9	5.9	5.9
40°	694.8	638.4	302.4	24.4	15.2	10.1	6.7	5.1	4.2	4.2	5.1
42.5°	770.7	705.0	268.7	21.1	12.6	8.4	5.1	3.4	2.5	3.4	3.4
45°	847.3	774.9	221.5	17.7	10.9	6.7	3.4	1.7	1.7	2.5	2.5
47.5°	926.5	849.0	171.8	15.2	9.3	5.1	2.5	0.8	0.8	1.7	1.7
50°	1008.2	922.3	128.0	13.5	7.6	4.2	1.7	0.8	0.0	0.8	0.8
52.5°	1089.9	993.0	99.4	11.8	6.7	3.4	0.8	0.0	0.0	0.0	0.8
55°	1165.7	1057.0	79.2	10.1	5.9	2.5	0.8	0.0	0.0	0.0	0.0
57.5°	1229.7	1104.2	63.2	9.3	5.1	1.7	0.8	0.0	0.0	0.0	0.0
60°	1290.3	1141.2	48.9	7.6	4.2	1.7	0.8	0.0	0.0	0.0	0.0
62.5°	1333.3	1155.6	39.6	6.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0
64°	1351.8	1157.2	34.5	5.9	3.4	1.7	0.8	0.0	0.0	0.0	0.0
65°	1362.7	1152.2	32.0	5.9	3.4	1.7	0.8	0.0	0.0	0.0	0.0
67.5°	1365.3	1124.4	24.4	5.1	2.5	0.8	0.8	0.0	0.0	0.0	0.0
70°	1291.2	1027.5	17.7	3.4	1.7	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1078.9	785.0	11.8	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
75°	673.8	339.4	6.7	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	278.8	102.8	4.2	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	64.0	24.4	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	4.2	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.4	0.8	0.8	0.8	0.8	0.0	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)