

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: P594593

Luminaire Tested: **ISS-PA1B-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594593
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-PA1B-827-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 450mA 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: 2908 lumens
Efficiency: N/A
Efficacy: 79.9 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

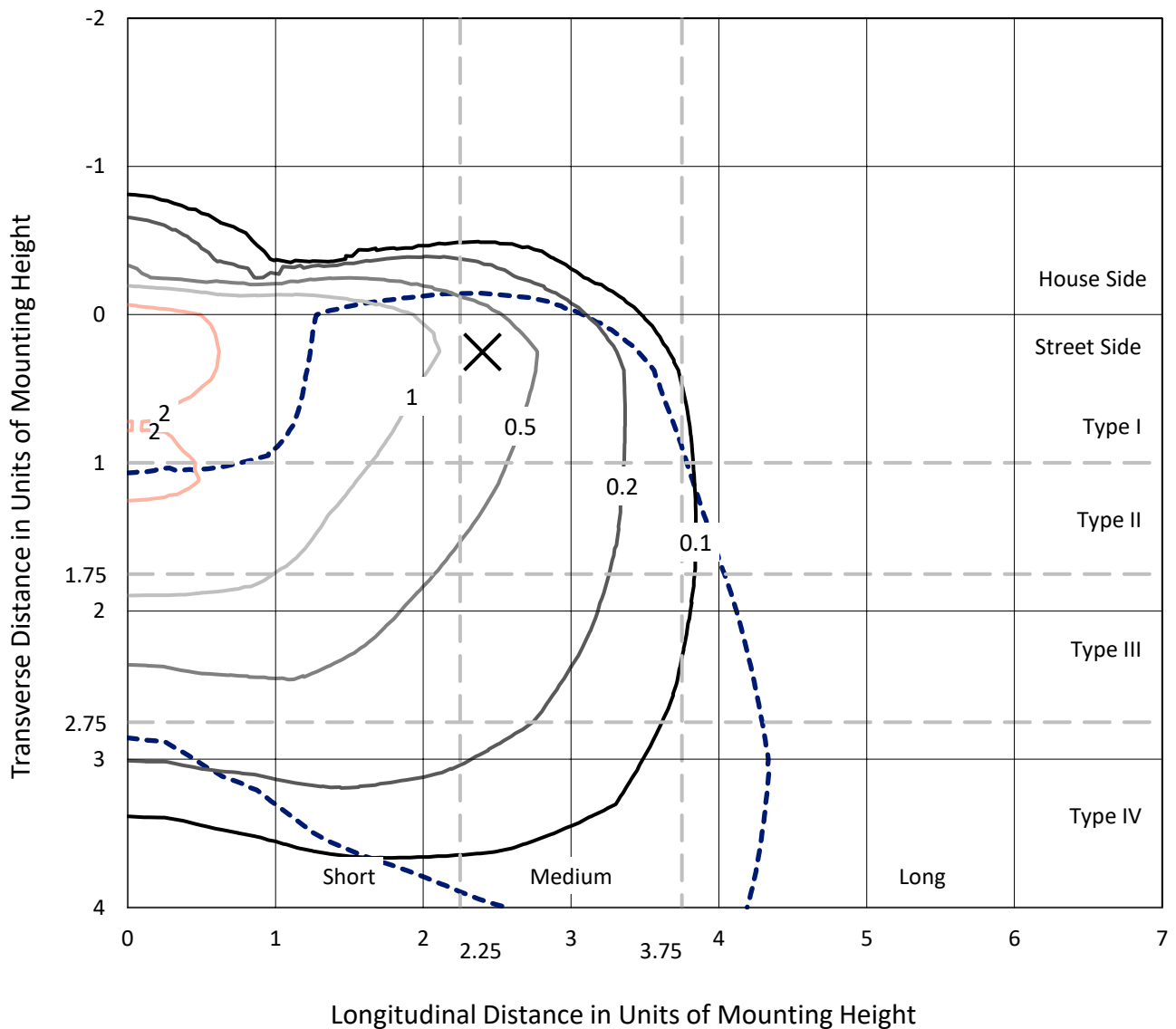
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

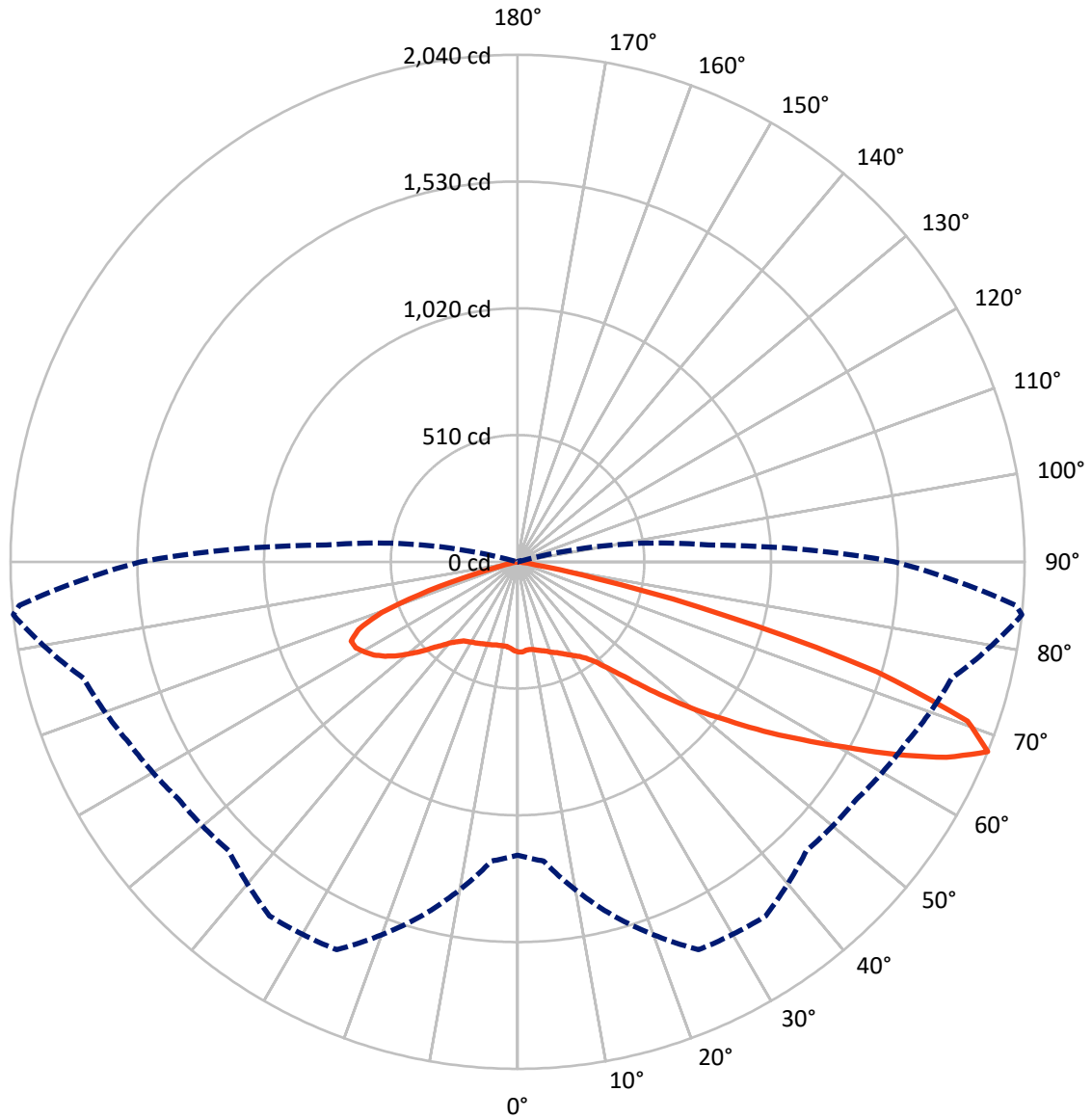
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	253.2	0.0	253.2
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2654.8	0.0	2654.8
	% Fixture	91.3	0.0	91.3
Total	Lumens	2908.0	0.0	2908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.1
10°-20°	85.0	2.9
20°-30°	136.1	4.7
30°-40°	195.8	6.7
40°-50°	336.1	11.6
50°-60°	587.3	20.2
60°-70°	841.0	28.9
70°-80°	632.1	21.7
80°-90°	62.0	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°	2908.0	100.0
0°-180°	2908.0	100.0

Coefficient of Utilization

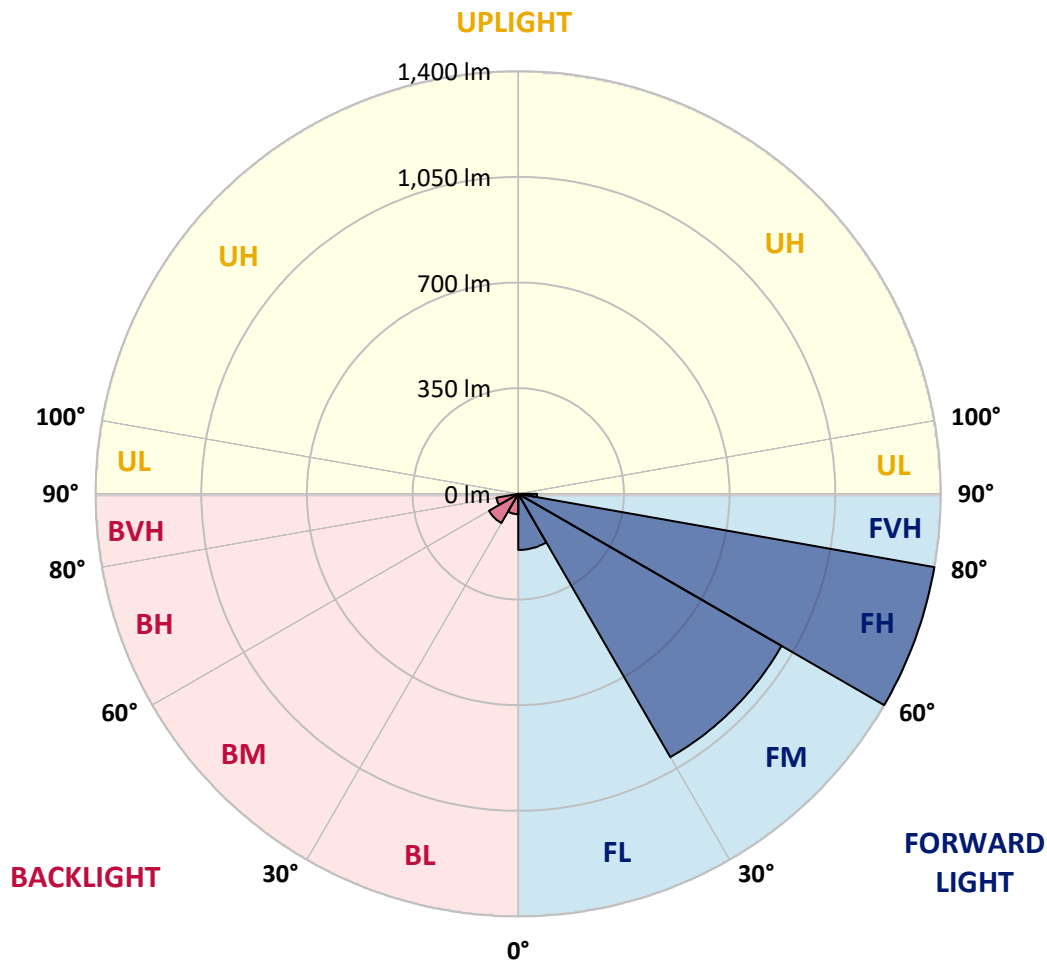


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.9	6.4			
FM (30°-60°)	1007.3	34.6			
FH (60°-80°)	1399.7	48.1			G1/1800
FVH (80°-90°)	61.8	2.1			G1/100
BL (0°-30°)	67.6	2.3	B0/110		
BM (30°-60°)	112.0	3.9	B0/220		
BH (60°-80°)	73.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3
2.5°	382.9	384.9	385.9	381.0	381.0	377.0	371.1	369.2	366.2	363.3	362.3
5°	402.6	405.5	404.5	398.6	395.7	387.8	380.0	372.1	364.3	357.4	357.4
7.5°	425.1	426.1	423.2	413.4	407.5	396.7	384.9	376.0	366.2	356.4	354.4
10°	444.8	443.8	439.9	430.0	419.2	405.5	392.7	382.9	371.1	359.4	358.4
12.5°	458.5	459.5	454.6	440.8	430.0	414.3	401.6	391.8	378.0	365.2	362.3
15°	470.3	473.3	467.4	453.6	437.9	424.2	414.3	401.6	385.9	371.1	369.2
17.5°	481.1	482.1	477.2	461.5	446.7	435.0	424.2	412.4	396.7	378.0	376.0
20°	487.0	489.9	487.0	467.4	453.6	444.8	435.9	424.2	406.5	388.8	386.8
22.5°	490.9	493.9	492.9	471.3	459.5	452.6	444.8	434.0	417.3	396.7	394.7
25°	492.9	494.9	496.8	475.2	465.4	462.5	455.6	445.8	430.0	408.4	406.5
27.5°	495.8	497.8	499.8	480.1	476.2	473.3	471.3	463.4	444.8	422.2	419.2
30°	500.7	503.7	505.7	489.0	489.0	491.9	491.9	481.1	460.5	436.9	435.0
32.5°	506.6	507.6	511.5	497.8	502.7	509.6	507.6	496.8	475.2	453.6	450.7
35°	522.3	522.3	529.2	511.5	517.4	523.3	525.3	517.4	497.8	476.2	475.2
37.5°	560.6	560.6	566.5	538.1	537.1	543.0	549.8	549.8	530.2	510.6	508.6
40°	647.0	647.0	647.0	581.3	570.5	577.3	588.1	594.0	577.3	563.6	563.6
42.5°	791.4	792.4	777.6	660.8	614.6	626.4	638.2	651.0	642.1	632.3	630.3
45°	940.6	935.7	933.7	777.6	693.2	687.3	702.0	723.6	726.6	720.7	724.6
47.5°	1042.7	1047.6	1050.6	922.9	803.2	762.9	776.6	807.1	824.8	823.8	829.7
50°	1141.9	1144.8	1147.8	1083.0	948.5	858.1	867.0	908.2	932.8	940.6	944.5
52.5°	1228.3	1220.4	1233.2	1224.4	1102.6	967.1	967.1	1014.2	1058.4	1061.4	1060.4
55°	1253.8	1258.7	1297.0	1323.5	1260.7	1100.7	1081.0	1131.1	1178.2	1202.8	1202.8
57.5°	1310.8	1315.7	1361.8	1421.7	1375.6	1232.2	1202.8	1251.9	1302.9	1350.0	1356.9
60°	1385.4	1386.4	1435.5	1526.8	1463.0	1351.0	1326.5	1382.4	1433.5	1514.0	1536.6
62.5°	1425.6	1429.6	1497.3	1617.1	1572.9	1455.1	1449.2	1500.3	1566.0	1707.4	1728.1
65°	1363.8	1389.3	1536.6	1671.1	1662.3	1552.3	1572.9	1614.2	1689.8	1896.9	1916.6
67.5°	1180.2	1208.7	1471.8	1722.2	1739.8	1643.6	1665.2	1725.1	1808.6	2040.3	2012.8
70°	1086.9	1110.5	1314.7	1750.6	1804.6	1745.7	1755.5	1811.5	1836.1	1920.5	1891.0
72.5°	823.8	848.3	1112.4	1653.4	1860.6	1852.7	1828.2	1782.1	1636.7	1511.1	1439.4
75°	364.3	392.7	740.3	1292.1	1722.2	1913.6	1784.0	1525.8	1175.3	858.1	795.3
77.5°	161.0	177.7	286.7	717.7	1294.1	1656.4	1410.9	1017.2	590.1	319.1	296.5
80°	52.0	54.0	90.3	251.4	661.8	1096.7	864.0	489.0	181.6	74.6	69.7
82.5°	20.6	22.6	43.2	106.0	273.9	435.9	424.2	176.7	53.0	19.6	19.6
85°	5.9	6.9	21.6	56.0	97.2	122.7	150.2	58.9	28.5	5.9	5.9
87.5°	2.0	2.0	7.9	17.7	18.7	12.8	28.5	22.6	17.7	2.0	2.0
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°	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3	362.3
2.5°	360.3	358.4	353.5	349.5	347.6	344.6	340.7	338.7	338.7	337.8	334.8
5°	353.5	350.5	341.7	335.8	330.9	320.1	312.2	302.4	292.6	289.6	292.6
7.5°	350.5	344.6	332.8	321.1	300.4	272.0	253.3	232.7	225.8	217.0	218.0
10°	351.5	344.6	327.9	301.4	261.2	219.0	189.5	162.0	148.3	141.4	142.4
12.5°	354.4	346.6	323.0	274.9	217.0	165.9	120.8	99.2	95.2	95.2	95.2
15°	360.3	348.6	315.2	243.5	169.9	110.0	85.4	83.5	86.4	89.3	90.3
17.5°	366.2	354.4	303.4	211.1	123.7	82.5	79.5	79.5	82.5	85.4	86.4
20°	373.1	360.3	286.7	176.7	88.4	77.6	76.6	75.6	77.6	80.5	81.5
22.5°	383.9	366.2	267.1	136.5	76.6	74.6	72.7	71.7	72.7	75.6	76.6
25°	393.7	374.1	246.4	101.1	71.7	69.7	68.7	67.7	67.7	69.7	70.7
27.5°	405.5	382.9	223.9	75.6	65.8	64.8	63.8	62.8	61.9	63.8	64.8
30°	420.2	390.8	199.3	63.8	59.9	58.9	57.9	56.9	56.0	56.9	57.9
32.5°	438.9	401.6	170.8	57.9	55.0	52.0	51.1	51.1	50.1	50.1	51.1
35°	463.4	413.4	140.4	54.0	50.1	47.1	44.2	43.2	43.2	43.2	44.2
37.5°	499.8	435.0	110.9	50.1	46.1	41.2	38.3	35.3	35.3	35.3	35.3
40°	549.8	458.5	86.4	47.1	43.2	36.3	32.4	28.5	26.5	25.5	26.5
42.5°	627.4	493.9	66.8	43.2	41.2	32.4	26.5	21.6	17.7	16.7	17.7
45°	712.8	532.2	53.0	40.3	37.3	27.5	20.6	14.7	10.8	9.8	10.8
47.5°	820.8	580.3	45.2	36.3	32.4	22.6	14.7	7.9	4.9	5.9	5.9
50°	924.9	627.4	41.2	33.4	28.5	18.7	8.8	3.9	2.0	2.9	2.9
52.5°	1039.8	677.5	38.3	29.5	24.5	13.7	4.9	1.0	0.0	1.0	1.0
55°	1155.6	722.6	35.3	26.5	19.6	9.8	2.0	0.0	0.0	0.0	1.0
57.5°	1281.3	760.9	32.4	22.6	14.7	5.9	1.0	0.0	0.0	0.0	0.0
60°	1386.4	790.4	29.5	19.6	9.8	2.9	0.0	0.0	0.0	0.0	0.0
62.5°	1482.6	816.9	22.6	14.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0
65°	1546.4	822.8	15.7	9.8	3.9	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1517.9	771.7	9.8	6.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1334.3	648.0	6.9	3.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	933.7	418.3	5.9	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	492.9	151.2	3.9	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	174.8	33.4	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	38.3	6.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.8	2.0	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)