

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: P594461

Luminaire Tested: **ISS-PA1A-735-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594461
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-735-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 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: 3301 lumens
Efficiency: N/A
Efficacy: 114.2 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

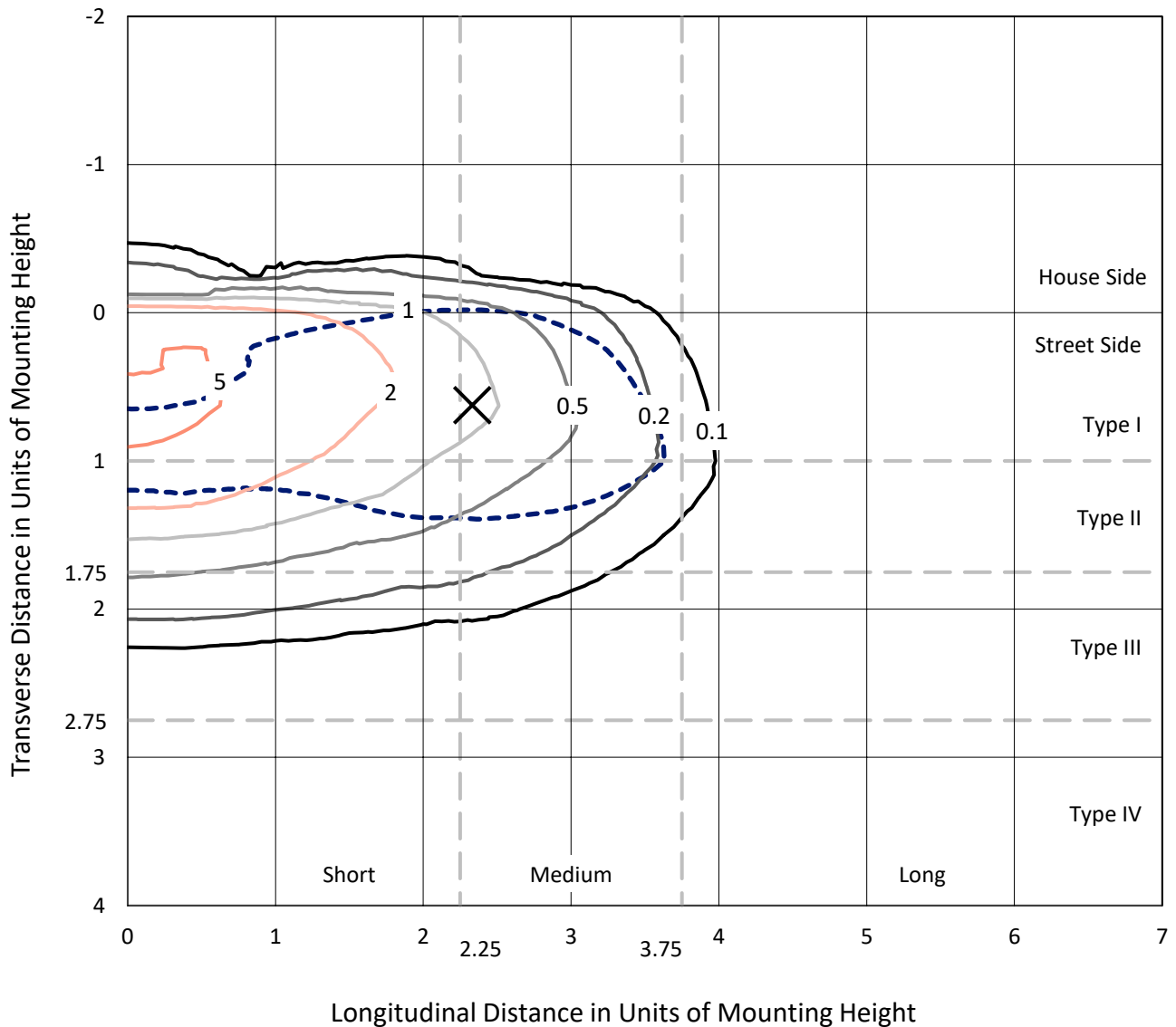




REPORT NUMBER: P594461
 CATALOG NUMBER: ISS-PA1A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

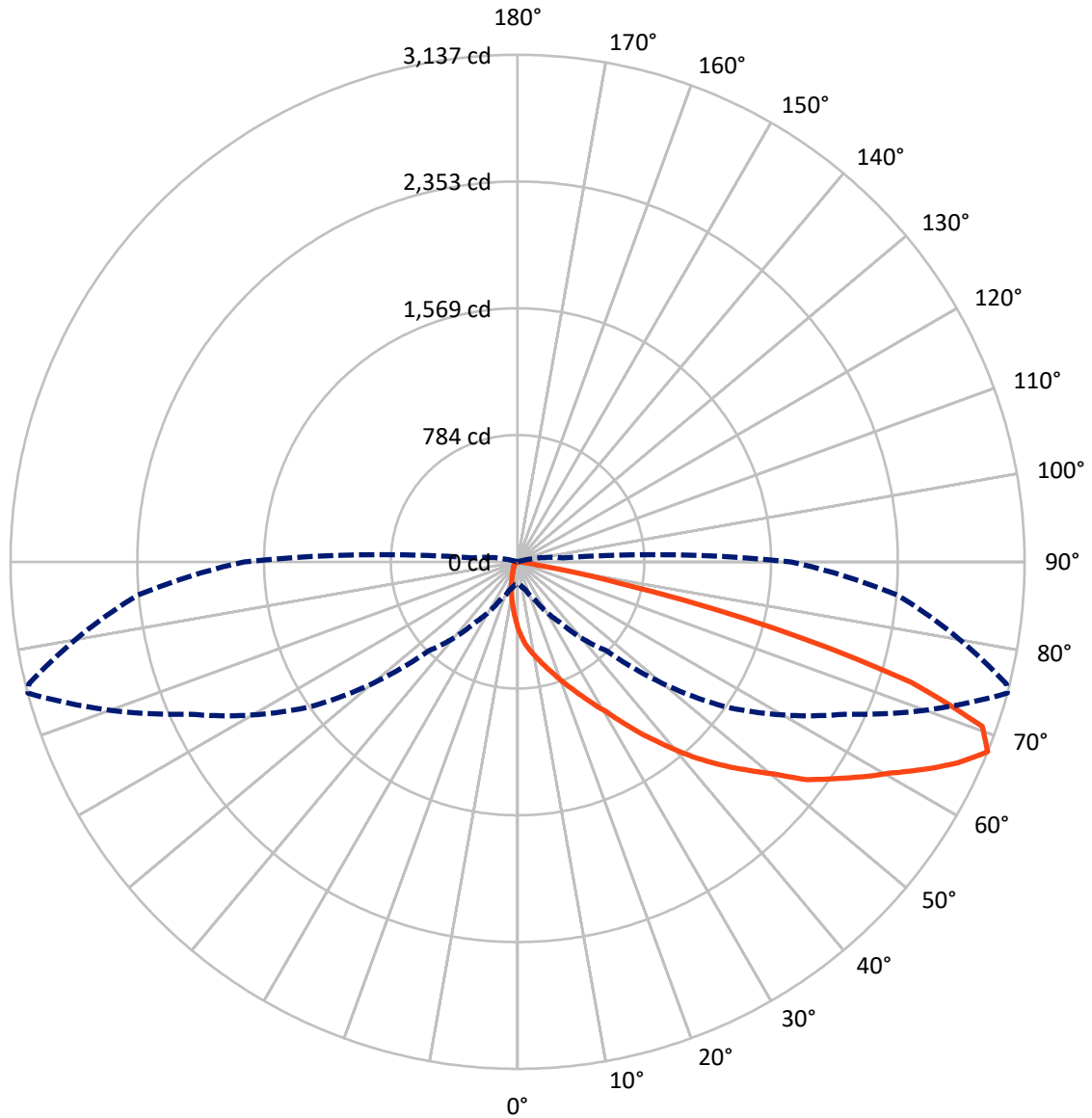
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P594461
CATALOG NUMBER: ISS-PA1A-735-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594461
 CATALOG NUMBER: ISS-PA1A-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	166.4	0.0	166.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3134.6	0.0	3134.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3301.0	0.0	3301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.1
10°-20°	119.4	3.6
20°-30°	240.0	7.3
30°-40°	454.0	13.8
40°-50°	679.2	20.6
50°-60°	784.2	23.8
60°-70°	695.1	21.1
70°-80°	281.0	8.5
80°-90°	11.2	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°	3301.0	100.0
0°-180°	3301.0	100.0

Coefficient of Utilization

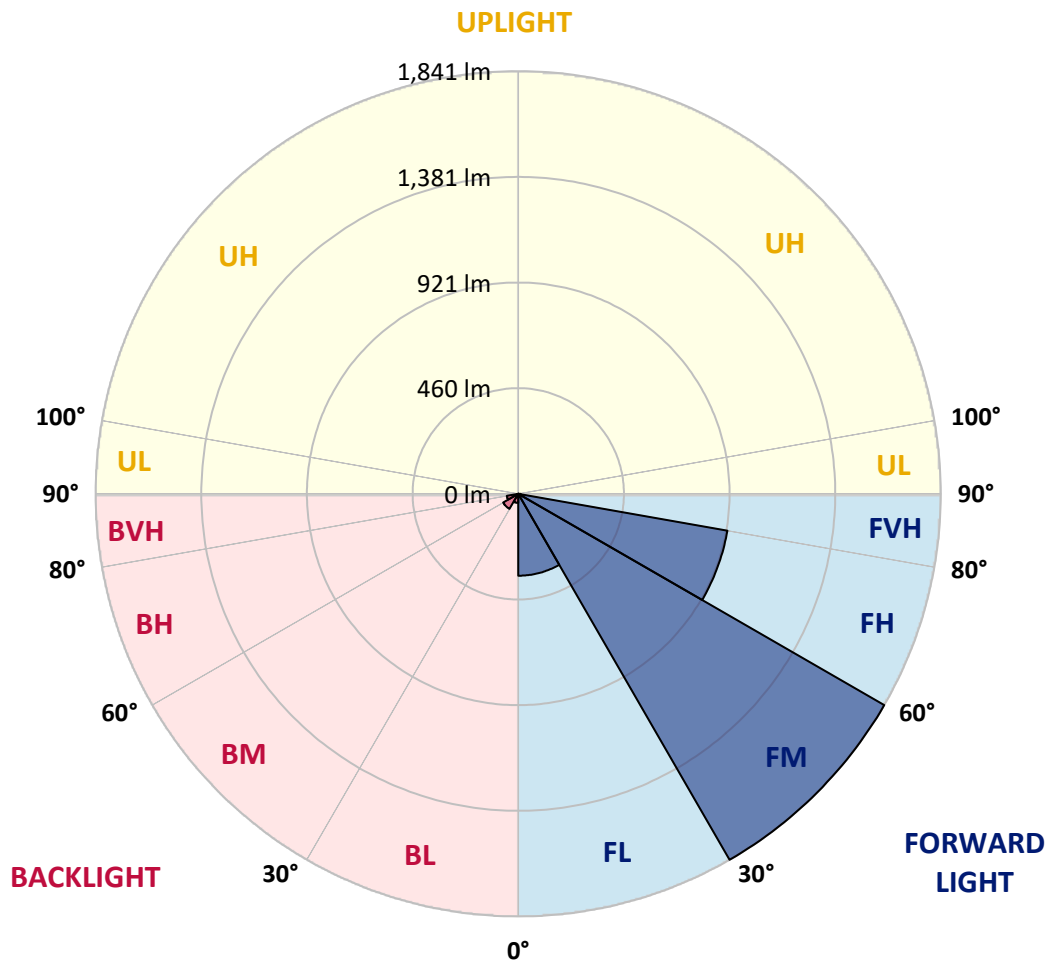


REPORT NUMBER: P594461
 CATALOG NUMBER: ISS-PA1A-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.9	10.8			
FM (30°-60°)	1841.4	55.8			
FH (60°-80°)	925.6	28.0			G1/1800
FVH (80°-90°)	10.7	0.3			G1/100
BL (0°-30°)	39.6	1.2	B0/110		
BM (30°-60°)	75.9	2.3	B0/220		
BH (60°-80°)	50.5	1.5	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 Medium





REPORT NUMBER: P594461
 CATALOG NUMBER: ISS-PA1A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
2.5°	570.8	572.7	568.8	559.9	551.9	533.1	518.2	491.5	462.8	462.8	428.1
5°	638.1	636.2	634.2	627.2	621.3	605.4	585.6	556.9	512.3	508.3	450.9
7.5°	670.8	668.9	664.9	661.9	661.9	651.0	632.2	602.5	552.9	549.0	471.7
10°	709.5	705.5	705.5	697.6	695.6	682.7	672.8	647.1	592.6	587.6	495.5
12.5°	755.1	751.1	752.1	745.2	742.2	728.3	714.4	689.7	635.2	630.2	523.2
15°	780.8	778.9	784.8	785.8	787.8	775.9	763.0	737.2	682.7	675.8	555.9
17.5°	795.7	795.7	802.6	815.5	830.4	823.4	813.5	792.7	731.3	727.3	590.6
20°	824.4	821.5	833.4	845.2	864.1	870.0	867.0	851.2	789.8	777.9	628.2
22.5°	872.0	868.0	878.9	893.8	916.6	918.6	920.6	912.6	849.2	837.3	667.9
25°	984.0	974.1	964.2	962.2	971.1	979.0	973.1	979.0	916.6	905.7	710.5
27.5°	1202.0	1185.1	1137.6	1085.0	1048.4	1055.3	1036.5	1047.4	993.9	980.0	750.1
30°	1411.1	1394.2	1355.6	1262.4	1178.2	1140.5	1112.8	1108.8	1073.2	1057.3	795.7
32.5°	1556.7	1545.8	1520.1	1457.6	1352.6	1256.5	1203.0	1184.1	1179.2	1154.4	854.2
35°	1655.8	1645.9	1628.1	1577.5	1500.2	1393.2	1301.1	1259.4	1297.1	1267.4	920.6
37.5°	1715.3	1708.3	1688.5	1653.8	1612.2	1541.9	1422.9	1356.6	1416.0	1388.3	1005.8
40°	1758.9	1741.0	1727.2	1700.4	1686.5	1663.7	1561.7	1457.6	1544.8	1516.1	1090.0
42.5°	1762.8	1754.9	1744.0	1728.1	1730.1	1745.0	1709.3	1574.6	1674.6	1647.9	1179.2
45°	1761.8	1753.9	1746.0	1730.1	1740.0	1795.5	1828.2	1697.4	1801.5	1773.7	1273.3
47.5°	1733.1	1727.2	1729.1	1729.1	1742.0	1817.3	1920.4	1822.3	1928.3	1901.6	1387.3
50°	1632.0	1638.0	1677.6	1698.4	1721.2	1818.3	1984.8	1953.1	2065.1	2046.2	1497.3
52.5°	1312.0	1345.7	1506.2	1616.2	1682.6	1798.5	2026.4	2090.8	2238.5	2209.7	1622.1
55°	1002.8	1004.8	1159.4	1415.0	1606.3	1762.8	2050.2	2184.0	2370.3	2354.4	1732.1
57.5°	813.5	812.5	888.8	1118.7	1408.1	1706.3	2056.1	2252.3	2510.0	2480.2	1858.9
60°	664.9	660.9	706.5	848.2	1150.4	1573.6	2034.3	2307.8	2653.7	2642.8	1991.7
62.5°	480.6	484.6	545.0	655.0	886.9	1328.8	1987.8	2324.7	2827.1	2816.2	2140.4
65°	276.5	288.4	354.7	471.7	679.8	1039.5	1855.0	2311.8	2996.5	2995.5	2278.1
67.5°	138.7	139.7	175.4	263.6	456.8	777.9	1561.7	2230.5	3137.2	3115.4	2357.4
70°	89.2	91.2	103.1	135.8	252.7	539.1	1193.1	2000.6	3049.0	3041.1	2241.4
72.5°	68.4	70.4	80.3	89.2	131.8	306.2	807.6	1554.7	2545.6	2523.8	1748.0
75°	53.5	54.5	64.4	72.3	88.2	143.7	405.3	969.1	1640.0	1583.5	994.9
77.5°	42.6	43.6	48.6	57.5	67.4	80.3	119.9	436.0	666.9	595.5	323.0
80°	27.7	28.7	36.7	44.6	57.5	52.5	46.6	125.8	142.7	128.8	57.5
82.5°	15.9	16.8	24.8	35.7	43.6	29.7	26.8	36.7	33.7	32.7	17.8
85°	5.0	5.0	16.8	24.8	19.8	8.9	16.8	12.9	10.9	9.9	5.9
87.5°	1.0	1.0	7.9	8.9	3.0	1.0	2.0	3.0	4.0	5.0	3.0
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: P594461
 CATALOG NUMBER: ISS-PA1A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
2.5°	411.2	391.4	354.7	323.0	292.3	265.6	246.7	229.9	218.0	215.0	210.1
5°	414.2	375.6	305.2	245.7	194.2	152.6	128.8	113.0	105.0	100.1	100.1
7.5°	417.2	359.7	258.6	179.4	122.9	93.1	78.3	71.3	68.4	67.4	66.4
10°	423.1	347.8	219.0	128.8	84.2	70.4	64.4	61.4	59.5	58.5	58.5
12.5°	433.0	337.9	182.3	95.1	69.4	62.4	58.5	54.5	52.5	51.5	51.5
15°	445.9	331.0	150.6	76.3	63.4	56.5	51.5	47.6	44.6	43.6	43.6
17.5°	463.7	326.0	123.9	67.4	58.5	50.5	44.6	40.6	37.7	36.7	36.7
20°	481.6	326.0	102.1	62.4	53.5	44.6	38.6	33.7	30.7	29.7	29.7
22.5°	505.4	325.0	85.2	57.5	47.6	38.6	32.7	26.8	24.8	23.8	23.8
25°	525.2	325.0	73.3	52.5	41.6	33.7	26.8	21.8	19.8	18.8	18.8
27.5°	549.0	322.0	62.4	46.6	35.7	27.7	21.8	17.8	15.9	14.9	14.9
30°	569.8	318.1	55.5	41.6	30.7	22.8	17.8	13.9	12.9	12.9	12.9
32.5°	604.5	315.1	49.5	35.7	25.8	18.8	13.9	10.9	9.9	9.9	9.9
35°	646.1	315.1	45.6	30.7	21.8	15.9	10.9	8.9	7.9	7.9	7.9
37.5°	700.6	318.1	40.6	26.8	17.8	12.9	8.9	6.9	5.9	5.9	5.9
40°	758.0	325.0	36.7	23.8	15.9	9.9	6.9	5.0	4.0	5.0	5.0
42.5°	826.4	332.0	32.7	20.8	12.9	7.9	5.0	3.0	2.0	3.0	3.0
45°	893.8	338.9	30.7	17.8	10.9	5.9	3.0	2.0	1.0	2.0	2.0
47.5°	977.0	355.7	28.7	15.9	8.9	5.0	2.0	1.0	0.0	1.0	1.0
50°	1073.2	374.6	25.8	12.9	6.9	4.0	2.0	0.0	0.0	0.0	0.0
52.5°	1165.3	390.4	22.8	10.9	5.9	3.0	1.0	0.0	0.0	0.0	0.0
55°	1257.5	400.3	19.8	8.9	5.0	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	1356.6	406.3	17.8	7.9	4.0	2.0	1.0	0.0	0.0	0.0	0.0
60°	1466.5	406.3	14.9	6.9	3.0	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1588.4	394.4	13.9	5.9	3.0	2.0	1.0	0.0	0.0	0.0	0.0
65°	1687.5	351.8	11.9	5.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1691.5	278.4	10.9	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
70°	1508.2	190.3	8.9	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1128.6	102.1	7.9	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
75°	608.4	39.6	5.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
77.5°	177.4	19.8	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
80°	32.7	9.9	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	1.0	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)