

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: P594470

Luminaire Tested: **ISS-PA1A-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594470
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-740-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 3544 lumens
Efficiency: N/A
Efficacy: 122.6 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

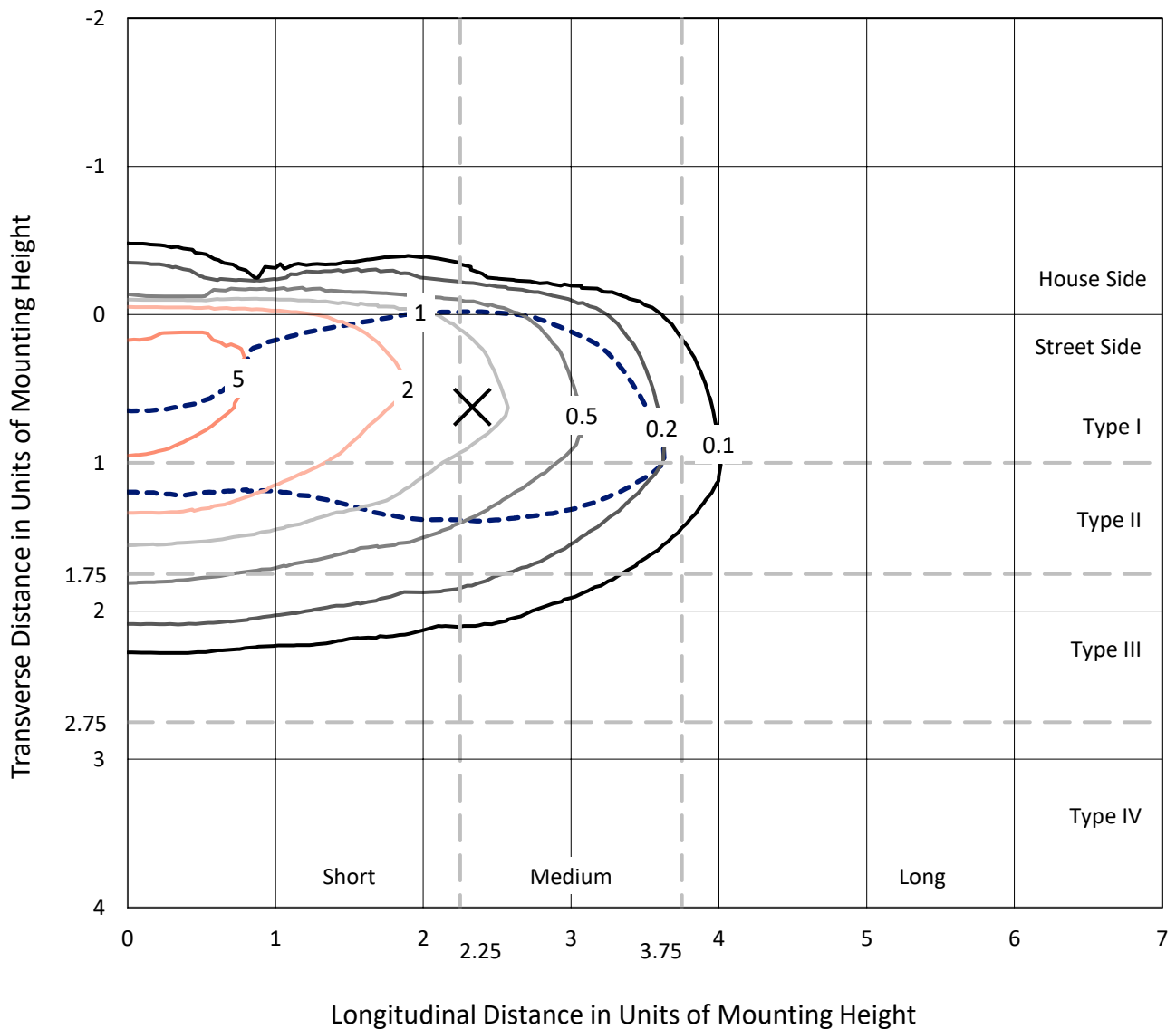
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594470
 CATALOG NUMBER: ISS-PA1A-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

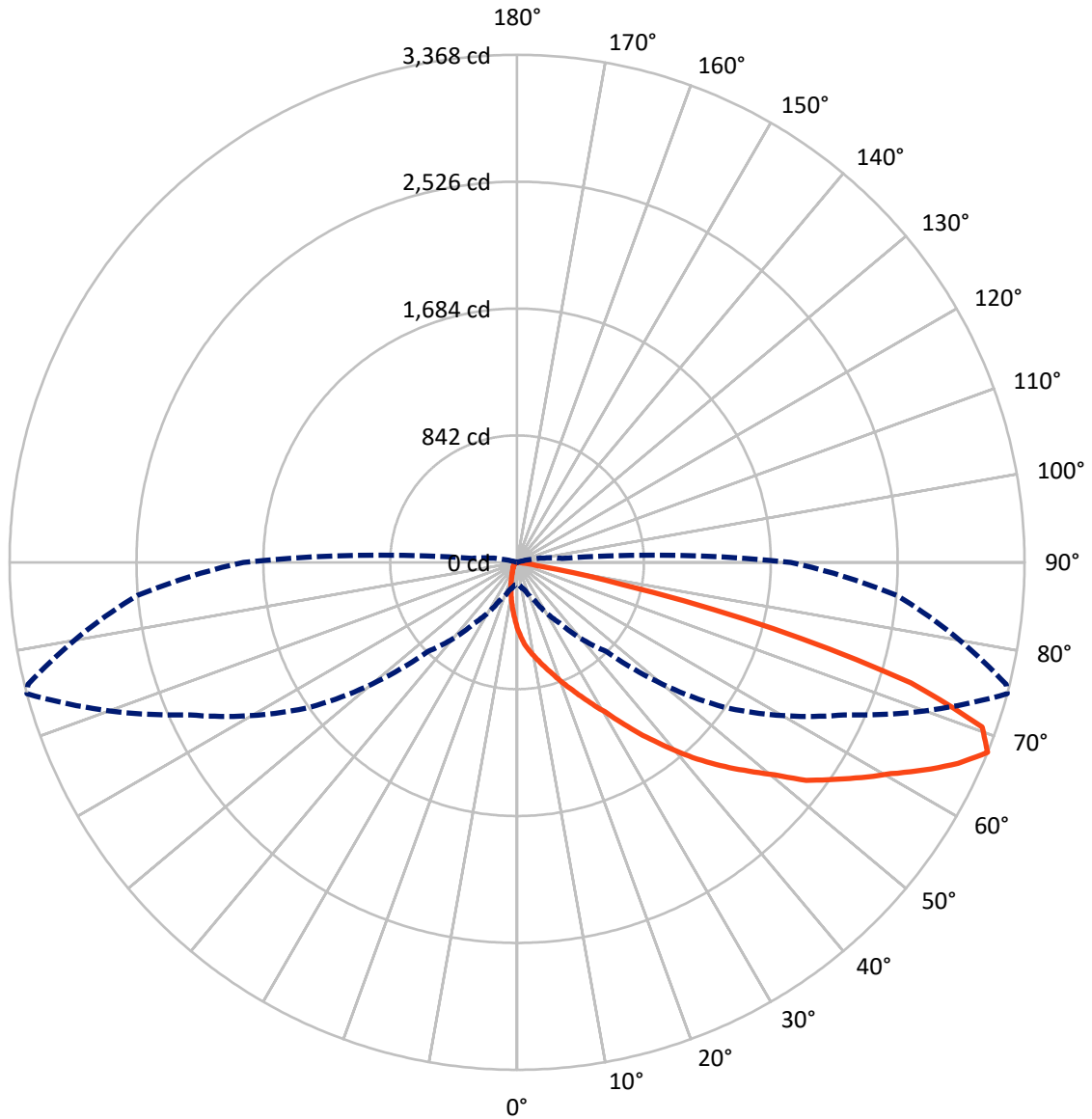
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P594470
CATALOG NUMBER: ISS-PA1A-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594470
 CATALOG NUMBER: ISS-PA1A-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	178.7	0.0	178.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3365.3	0.0	3365.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	3544.0	0.0	3544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.1
10°-20°	128.2	3.6
20°-30°	257.7	7.3
30°-40°	487.4	13.8
40°-50°	729.2	20.6
50°-60°	841.9	23.8
60°-70°	746.2	21.1
70°-80°	301.6	8.5
80°-90°	12.0	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°	3544.0	100.0
0°-180°	3544.0	100.0

Coefficient of Utilization

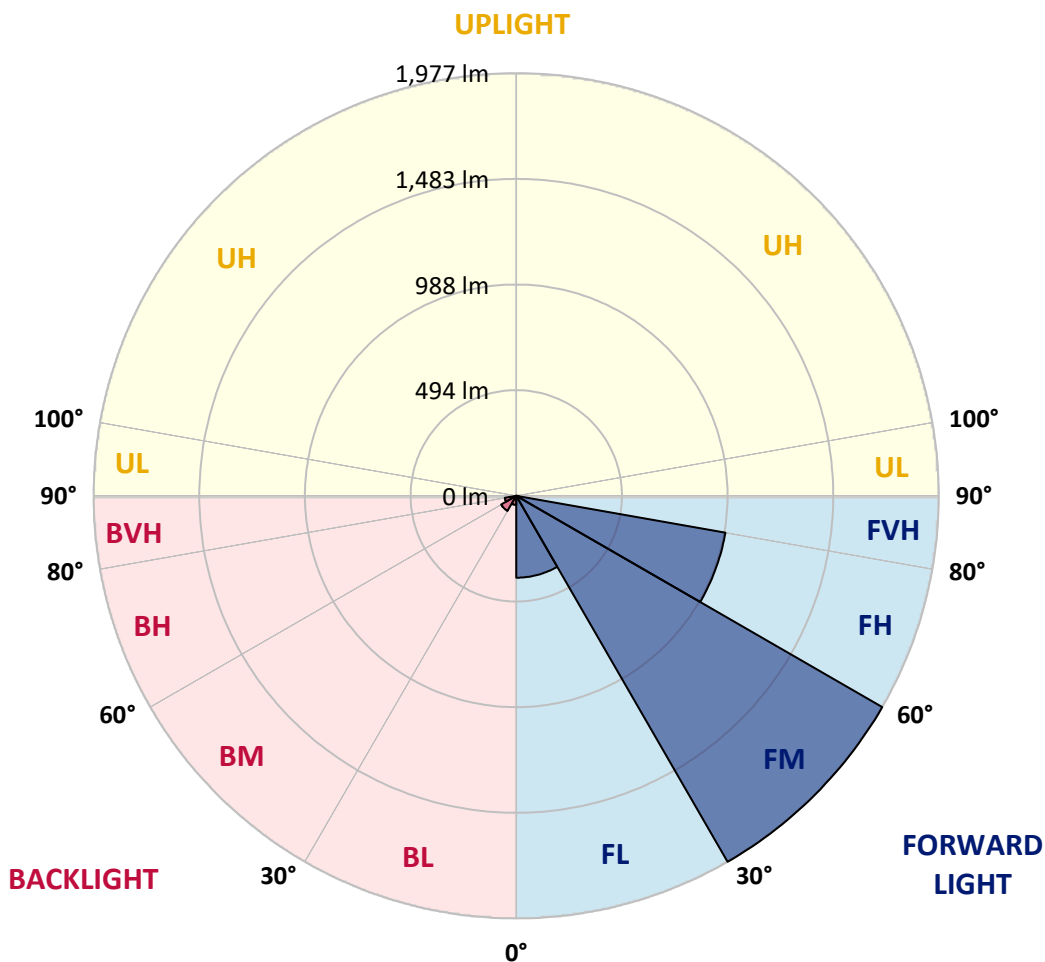


REPORT NUMBER: P594470
 CATALOG NUMBER: ISS-PA1A-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.1	10.8			
FM (30°-60°)	1977.0	55.8			
FH (60°-80°)	993.7	28.0			G1/1800
FVH (80°-90°)	11.5	0.3			G1/100
BL (0°-30°)	42.5	1.2	B0/110		
BM (30°-60°)	81.5	2.3	B0/220		
BH (60°-80°)	54.2	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: P594470
 CATALOG NUMBER: ISS-PA1A-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4
2.5°	612.8	614.9	610.7	601.1	592.6	572.4	556.4	527.7	496.8	496.8	459.6
5°	685.1	683.0	680.9	673.4	667.0	650.0	628.7	597.9	550.0	545.8	484.1
7.5°	720.2	718.1	713.8	710.7	710.7	699.0	678.7	646.8	593.6	589.4	506.4
10°	761.7	757.5	757.5	749.0	746.8	733.0	722.4	694.7	636.2	630.9	531.9
12.5°	810.7	806.4	807.5	800.0	796.8	781.9	767.0	740.4	681.9	676.6	561.7
15°	838.3	836.2	842.6	843.6	845.8	833.0	819.2	791.5	733.0	725.5	596.8
17.5°	854.3	854.3	861.7	875.6	891.5	884.1	873.4	851.1	785.1	780.9	634.1
20°	885.1	881.9	894.7	907.5	927.7	934.1	930.9	913.9	847.9	835.1	674.5
22.5°	936.2	931.9	943.6	959.6	984.1	986.2	988.3	979.8	911.7	899.0	717.0
25°	1056.4	1045.8	1035.1	1033.0	1042.6	1051.1	1044.7	1051.1	984.1	972.4	762.8
27.5°	1290.5	1272.4	1221.3	1164.9	1125.6	1133.0	1112.8	1124.5	1067.0	1052.2	805.3
30°	1514.9	1496.8	1455.4	1355.3	1264.9	1224.5	1194.7	1190.5	1152.2	1135.1	854.3
32.5°	1671.3	1659.6	1632.0	1564.9	1452.2	1349.0	1291.5	1271.3	1266.0	1239.4	917.0
35°	1777.7	1767.1	1747.9	1693.7	1610.7	1495.8	1396.8	1352.2	1392.6	1360.7	988.3
37.5°	1841.5	1834.1	1812.8	1775.6	1730.9	1655.4	1527.7	1456.4	1520.2	1490.5	1079.8
40°	1888.3	1869.2	1854.3	1825.6	1810.7	1786.2	1676.6	1564.9	1658.5	1627.7	1170.2
42.5°	1892.6	1884.1	1872.4	1855.4	1857.5	1873.4	1835.1	1690.5	1797.9	1769.2	1266.0
45°	1891.5	1883.0	1874.5	1857.5	1868.1	1927.7	1962.8	1822.4	1934.1	1904.3	1367.1
47.5°	1860.7	1854.3	1856.4	1856.4	1870.3	1951.1	2061.7	1956.4	2070.3	2041.5	1489.4
50°	1752.2	1758.6	1801.1	1823.4	1847.9	1952.2	2130.9	2096.9	2217.1	2196.9	1607.5
52.5°	1408.5	1444.7	1617.1	1735.1	1806.4	1930.9	2175.6	2244.7	2403.2	2372.4	1741.5
55°	1076.6	1078.7	1244.7	1519.2	1724.5	1892.6	2201.1	2344.7	2544.7	2527.7	1859.6
57.5°	873.4	872.4	954.3	1201.1	1511.7	1832.0	2207.5	2418.1	2694.7	2662.8	1995.8
60°	713.8	709.6	758.5	910.7	1235.1	1689.4	2184.1	2477.7	2849.0	2837.3	2138.3
62.5°	516.0	520.2	585.1	703.2	952.1	1426.6	2134.1	2495.8	3035.2	3023.5	2297.9
65°	296.8	309.6	380.9	506.4	729.8	1116.0	1991.5	2482.0	3217.1	3216.0	2445.8
67.5°	148.9	150.0	188.3	283.0	490.4	835.1	1676.6	2394.7	3368.2	3344.8	2530.9
70°	95.7	97.9	110.6	145.7	271.3	578.7	1280.9	2147.9	3273.5	3265.0	2406.4
72.5°	73.4	75.5	86.2	95.7	141.5	328.7	867.0	1669.2	2733.0	2709.6	1876.6
75°	57.4	58.5	69.2	77.7	94.7	154.3	435.1	1040.4	1760.7	1700.0	1068.1
77.5°	45.7	46.8	52.1	61.7	72.3	86.2	128.7	468.1	716.0	639.4	346.8
80°	29.8	30.9	39.4	47.9	61.7	56.4	50.0	135.1	153.2	138.3	61.7
82.5°	17.0	18.1	26.6	38.3	46.8	31.9	28.7	39.4	36.2	35.1	19.1
85°	5.3	5.3	18.1	26.6	21.3	9.6	18.1	13.8	11.7	10.6	6.4
87.5°	1.1	1.1	8.5	9.6	3.2	1.1	2.1	3.2	4.3	5.3	3.2
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: P594470
 CATALOG NUMBER: ISS-PA1A-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4	440.4
2.5°	441.5	420.2	380.9	346.8	313.8	285.1	264.9	246.8	234.0	230.9	225.5
5°	444.7	403.2	327.7	263.8	208.5	163.8	138.3	121.3	112.8	107.4	107.4
7.5°	447.9	386.2	277.7	192.6	131.9	100.0	84.0	76.6	73.4	72.3	71.3
10°	454.3	373.4	235.1	138.3	90.4	75.5	69.2	66.0	63.8	62.8	62.8
12.5°	464.9	362.8	195.7	102.1	74.5	67.0	62.8	58.5	56.4	55.3	55.3
15°	478.7	355.3	161.7	81.9	68.1	60.6	55.3	51.1	47.9	46.8	46.8
17.5°	497.9	350.0	133.0	72.3	62.8	54.3	47.9	43.6	40.4	39.4	39.4
20°	517.0	350.0	109.6	67.0	57.4	47.9	41.5	36.2	33.0	31.9	31.9
22.5°	542.6	348.9	91.5	61.7	51.1	41.5	35.1	28.7	26.6	25.5	25.5
25°	563.8	348.9	78.7	56.4	44.7	36.2	28.7	23.4	21.3	20.2	20.2
27.5°	589.4	345.8	67.0	50.0	38.3	29.8	23.4	19.1	17.0	16.0	16.0
30°	611.7	341.5	59.6	44.7	33.0	24.5	19.1	14.9	13.8	13.8	13.8
32.5°	649.0	338.3	53.2	38.3	27.7	20.2	14.9	11.7	10.6	10.6	10.6
35°	693.6	338.3	48.9	33.0	23.4	17.0	11.7	9.6	8.5	8.5	8.5
37.5°	752.1	341.5	43.6	28.7	19.1	13.8	9.6	7.4	6.4	6.4	6.4
40°	813.8	348.9	39.4	25.5	17.0	10.6	7.4	5.3	4.3	5.3	5.3
42.5°	887.3	356.4	35.1	22.3	13.8	8.5	5.3	3.2	2.1	3.2	3.2
45°	959.6	363.8	33.0	19.1	11.7	6.4	3.2	2.1	1.1	2.1	2.1
47.5°	1049.0	381.9	30.9	17.0	9.6	5.3	2.1	1.1	0.0	1.1	1.1
50°	1152.2	402.1	27.7	13.8	7.4	4.3	2.1	0.0	0.0	0.0	0.0
52.5°	1251.1	419.2	24.5	11.7	6.4	3.2	1.1	0.0	0.0	0.0	0.0
55°	1350.0	429.8	21.3	9.6	5.3	3.2	1.1	0.0	0.0	0.0	0.0
57.5°	1456.4	436.2	19.1	8.5	4.3	2.1	1.1	0.0	0.0	0.0	0.0
60°	1574.5	436.2	16.0	7.4	3.2	2.1	1.1	0.0	0.0	0.0	0.0
62.5°	1705.4	423.4	14.9	6.4	3.2	2.1	1.1	0.0	0.0	0.0	0.0
65°	1811.7	377.7	12.8	5.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
67.5°	1816.0	298.9	11.7	4.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
70°	1619.2	204.3	9.6	3.2	2.1	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1211.7	109.6	8.5	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
75°	653.2	42.6	5.3	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
77.5°	190.4	21.3	3.2	2.1	2.1	1.1	1.1	0.0	0.0	0.0	0.0
80°	35.1	10.6	2.1	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	4.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	1.1	1.1	1.1	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)