

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: P594551

Luminaire Tested: **ISS-PA1B-735-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594551
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-PA1B-735-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 4126 lumens
Efficiency: N/A
Efficacy: 113.4 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

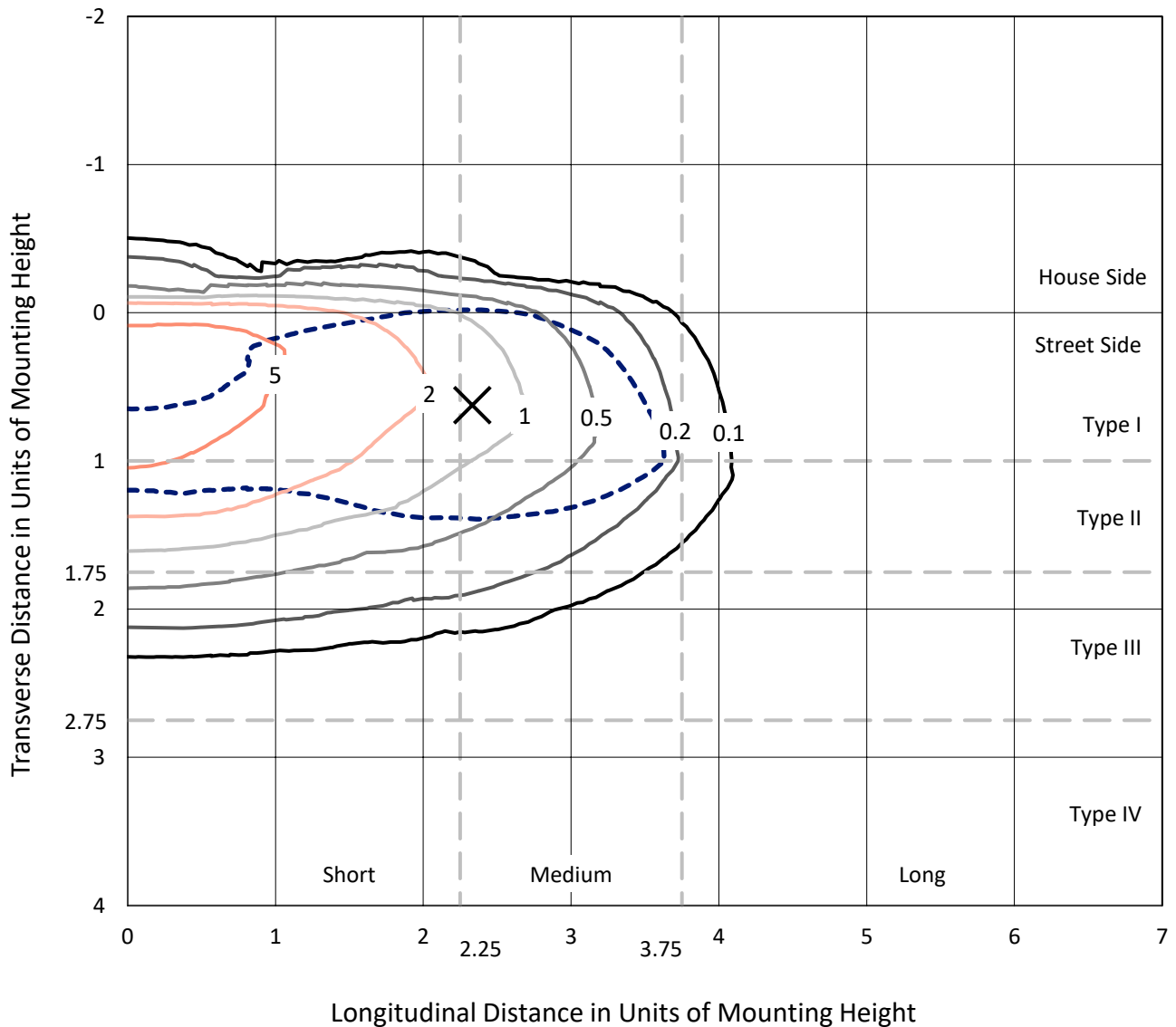
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

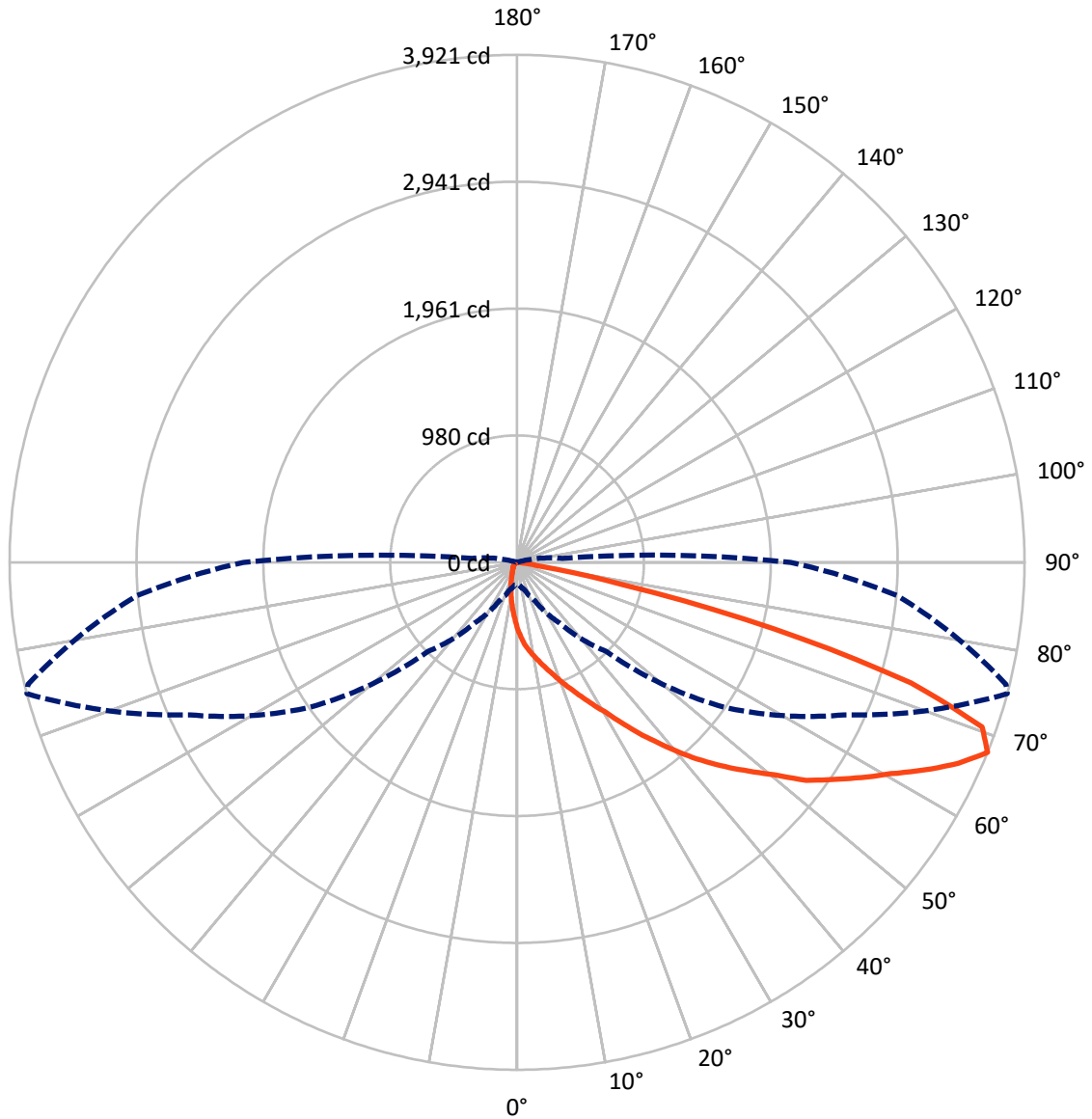
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	208.0	0.0	208.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3918.0	0.0	3918.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	4126.0	0.0	4126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	149.3	3.6
20°-30°	300.0	7.3
30°-40°	567.5	13.8
40°-50°	848.9	20.6
50°-60°	980.1	23.8
60°-70°	868.8	21.1
70°-80°	351.2	8.5
80°-90°	14.0	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°	4126.0	100.0
0°-180°	4126.0	100.0

Coefficient of Utilization

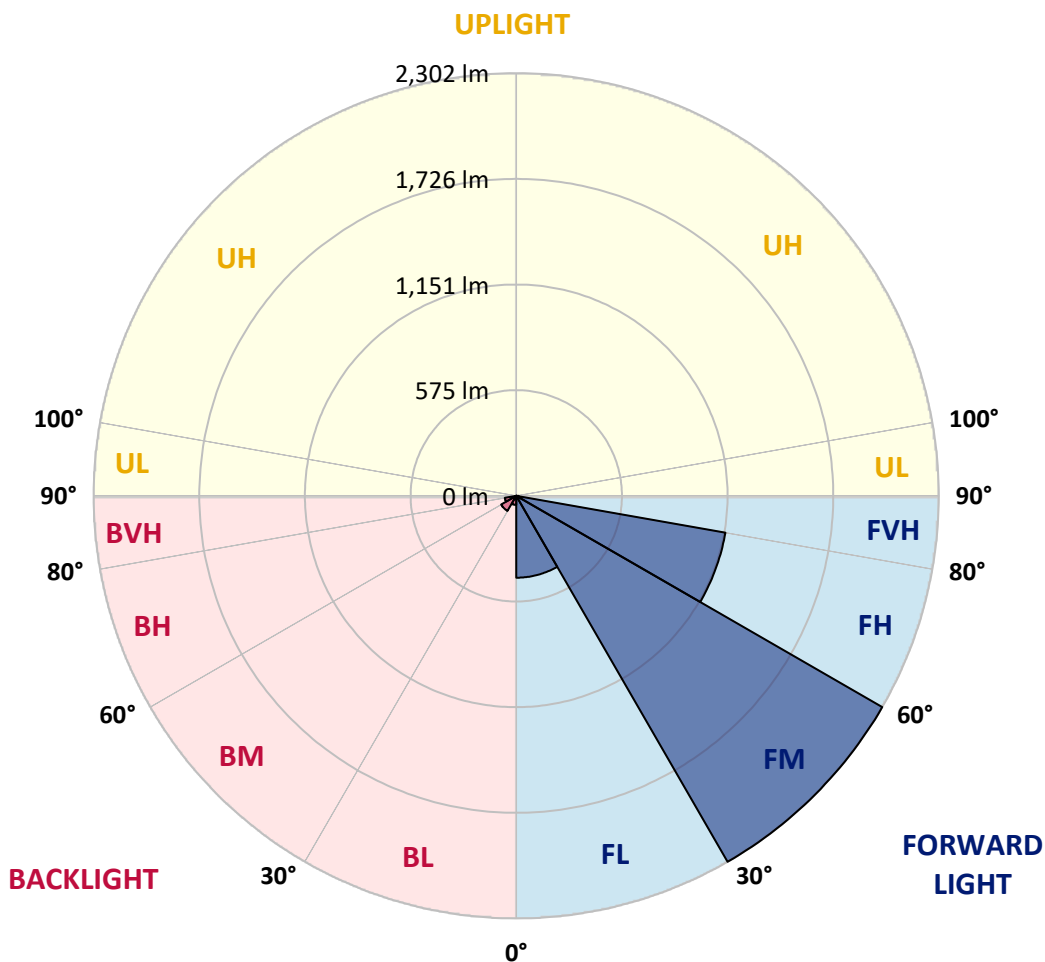


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.1	10.8			
FM (30°-60°)	2301.6	55.8			
FH (60°-80°)	1156.9	28.0			G1/1800
FVH (80°-90°)	13.4	0.3			G1/100
BL (0°-30°)	49.4	1.2	B0/110		
BM (30°-60°)	94.9	2.3	B0/220		
BH (60°-80°)	63.1	1.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8
2.5°	713.4	715.9	710.9	699.8	689.9	666.3	647.8	614.3	578.4	578.4	535.1
5°	797.6	795.2	792.7	784.0	776.6	756.8	732.0	696.1	640.3	635.4	563.5
7.5°	838.5	836.0	831.1	827.4	827.4	813.7	790.2	753.0	691.1	686.2	589.6
10°	886.8	881.9	881.9	871.9	869.5	853.4	841.0	808.8	740.7	734.5	619.3
12.5°	943.8	938.8	940.1	931.4	927.7	910.3	893.0	862.0	793.9	787.7	654.0
15°	976.0	973.5	980.9	982.2	984.7	969.8	953.7	921.5	853.4	844.7	694.8
17.5°	994.6	994.6	1003.2	1019.3	1037.9	1029.2	1016.9	990.8	914.1	909.1	738.2
20°	1030.5	1026.8	1041.6	1056.5	1080.0	1087.5	1083.7	1063.9	987.1	972.3	785.2
22.5°	1089.9	1085.0	1098.6	1117.2	1145.7	1148.1	1150.6	1140.7	1061.4	1046.6	834.8
25°	1229.9	1217.5	1205.1	1202.6	1213.8	1223.7	1216.3	1223.7	1145.7	1132.0	888.0
27.5°	1502.4	1481.3	1421.9	1356.2	1310.4	1319.1	1295.5	1309.2	1242.3	1224.9	937.6
30°	1763.7	1742.7	1694.4	1577.9	1472.6	1425.6	1390.9	1386.0	1341.4	1321.5	994.6
32.5°	1945.8	1932.2	1900.0	1821.9	1690.6	1570.5	1503.6	1480.1	1473.9	1442.9	1067.6
35°	2069.6	2057.3	2035.0	1971.8	1875.2	1741.4	1626.2	1574.2	1621.3	1584.1	1150.6
37.5°	2143.9	2135.3	2110.5	2067.2	2015.1	1927.2	1778.6	1695.6	1769.9	1735.2	1257.1
40°	2198.4	2176.2	2158.8	2125.4	2108.0	2079.5	1952.0	1821.9	1930.9	1895.0	1362.4
42.5°	2203.4	2193.5	2179.9	2160.1	2162.5	2181.1	2136.5	1968.1	2093.2	2059.7	1473.9
45°	2202.2	2192.3	2182.3	2162.5	2174.9	2244.3	2285.1	2121.7	2251.7	2217.0	1591.6
47.5°	2166.2	2158.8	2161.3	2161.3	2177.4	2271.5	2400.3	2277.7	2410.2	2376.8	1734.0
50°	2039.9	2047.3	2096.9	2122.9	2151.4	2272.8	2480.8	2441.2	2581.2	2557.6	1871.5
52.5°	1639.9	1682.0	1882.6	2020.1	2103.1	2248.0	2532.9	2613.4	2797.9	2762.0	2027.5
55°	1253.4	1255.9	1449.1	1768.7	2007.7	2203.4	2562.6	2729.8	2962.6	2942.8	2165.0
57.5°	1016.9	1015.6	1111.0	1398.3	1760.0	2132.8	2570.0	2815.3	3137.3	3100.1	2323.5
60°	831.1	826.1	883.1	1060.2	1438.0	1966.8	2542.8	2884.6	3316.9	3303.2	2489.5
62.5°	600.7	605.7	681.2	818.7	1108.5	1660.9	2484.6	2905.7	3533.6	3520.0	2675.3
65°	345.6	360.4	443.4	589.6	849.7	1299.3	2318.6	2889.6	3745.4	3744.2	2847.5
67.5°	173.4	174.6	219.2	329.5	571.0	972.3	1952.0	2788.0	3921.3	3894.0	2946.5
70°	111.5	113.9	128.8	169.7	315.8	673.8	1491.2	2500.7	3811.1	3801.1	2801.6
72.5°	85.5	87.9	100.3	111.5	164.7	382.7	1009.4	1943.3	3181.9	3154.6	2184.8
75°	66.9	68.1	80.5	90.4	110.2	179.6	506.6	1211.3	2049.8	1979.2	1243.5
77.5°	53.3	54.5	60.7	71.8	84.2	100.3	149.9	545.0	833.6	744.4	403.8
80°	34.7	35.9	45.8	55.7	71.8	65.6	58.2	157.3	178.4	161.0	71.8
82.5°	19.8	21.1	31.0	44.6	54.5	37.2	33.4	45.8	42.1	40.9	22.3
85°	6.2	6.2	21.1	31.0	24.8	11.1	21.1	16.1	13.6	12.4	7.4
87.5°	1.2	1.2	9.9	11.1	3.7	1.2	2.5	3.7	5.0	6.2	3.7
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°	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8	512.8
2.5°	514.0	489.2	443.4	403.8	365.4	331.9	308.4	287.3	272.5	268.8	262.6
5°	517.7	469.4	381.5	307.2	242.8	190.7	161.0	141.2	131.3	125.1	125.1
7.5°	521.4	449.6	323.3	224.2	153.6	116.4	97.8	89.2	85.5	84.2	83.0
10°	528.9	434.7	273.7	161.0	105.3	87.9	80.5	76.8	74.3	73.1	73.1
12.5°	541.3	422.3	227.9	118.9	86.7	78.0	73.1	68.1	65.6	64.4	64.4
15°	557.4	413.7	188.3	95.4	79.3	70.6	64.4	59.5	55.7	54.5	54.5
17.5°	579.6	407.5	154.8	84.2	73.1	63.2	55.7	50.8	47.1	45.8	45.8
20°	601.9	407.5	127.6	78.0	66.9	55.7	48.3	42.1	38.4	37.2	37.2
22.5°	631.7	406.2	106.5	71.8	59.5	48.3	40.9	33.4	31.0	29.7	29.7
25°	656.4	406.2	91.7	65.6	52.0	42.1	33.4	27.2	24.8	23.5	23.5
27.5°	686.2	402.5	78.0	58.2	44.6	34.7	27.2	22.3	19.8	18.6	18.6
30°	712.2	397.6	69.4	52.0	38.4	28.5	22.3	17.3	16.1	16.1	16.1
32.5°	755.5	393.9	61.9	44.6	32.2	23.5	17.3	13.6	12.4	12.4	12.4
35°	807.5	393.9	57.0	38.4	27.2	19.8	13.6	11.1	9.9	9.9	9.9
37.5°	875.7	397.6	50.8	33.4	22.3	16.1	11.1	8.7	7.4	7.4	7.4
40°	947.5	406.2	45.8	29.7	19.8	12.4	8.7	6.2	5.0	6.2	6.2
42.5°	1033.0	414.9	40.9	26.0	16.1	9.9	6.2	3.7	2.5	3.7	3.7
45°	1117.2	423.6	38.4	22.3	13.6	7.4	3.7	2.5	1.2	2.5	2.5
47.5°	1221.2	444.6	35.9	19.8	11.1	6.2	2.5	1.2	0.0	1.2	1.2
50°	1341.4	468.2	32.2	16.1	8.7	5.0	2.5	0.0	0.0	0.0	0.0
52.5°	1456.5	488.0	28.5	13.6	7.4	3.7	1.2	0.0	0.0	0.0	0.0
55°	1571.7	500.4	24.8	11.1	6.2	3.7	1.2	0.0	0.0	0.0	0.0
57.5°	1695.6	507.8	22.3	9.9	5.0	2.5	1.2	0.0	0.0	0.0	0.0
60°	1833.1	507.8	18.6	8.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0
62.5°	1985.4	492.9	17.3	7.4	3.7	2.5	1.2	0.0	0.0	0.0	0.0
65°	2109.3	439.7	14.9	6.2	3.7	2.5	1.2	0.0	0.0	0.0	0.0
67.5°	2114.2	348.0	13.6	5.0	3.7	2.5	1.2	0.0	0.0	0.0	0.0
70°	1885.1	237.8	11.1	3.7	2.5	2.5	1.2	0.0	0.0	0.0	0.0
72.5°	1410.7	127.6	9.9	3.7	2.5	1.2	1.2	0.0	0.0	0.0	0.0
75°	760.5	49.5	6.2	3.7	2.5	1.2	1.2	0.0	0.0	0.0	0.0
77.5°	221.7	24.8	3.7	2.5	2.5	1.2	1.2	0.0	0.0	0.0	0.0
80°	40.9	12.4	2.5	2.5	2.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	5.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.5	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.2	1.2	1.2	1.2	1.2	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)