

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: P595298

Luminaire Tested: **IST-PA1E-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595298
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: IST-PA1E-740-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 8283 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

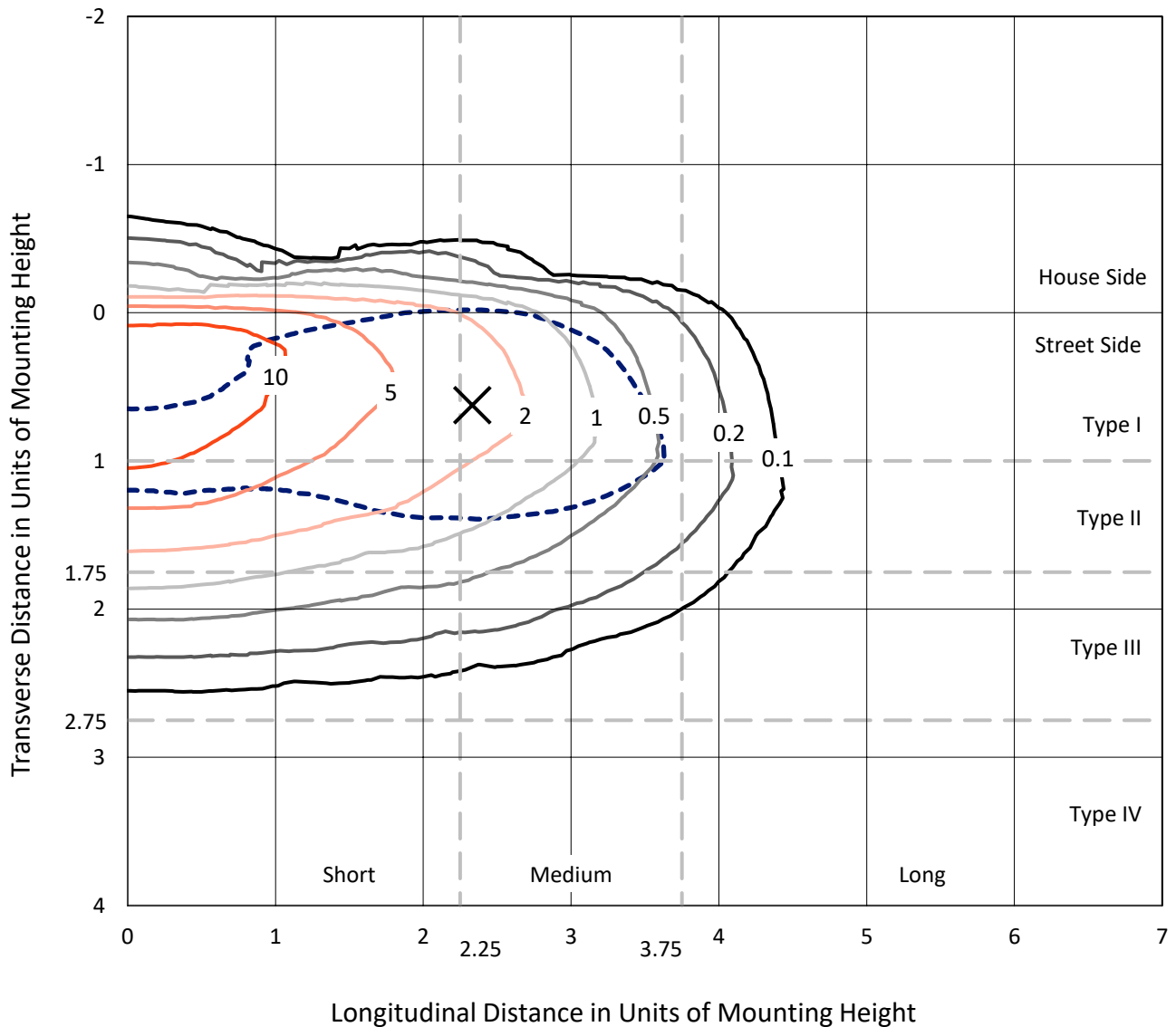
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

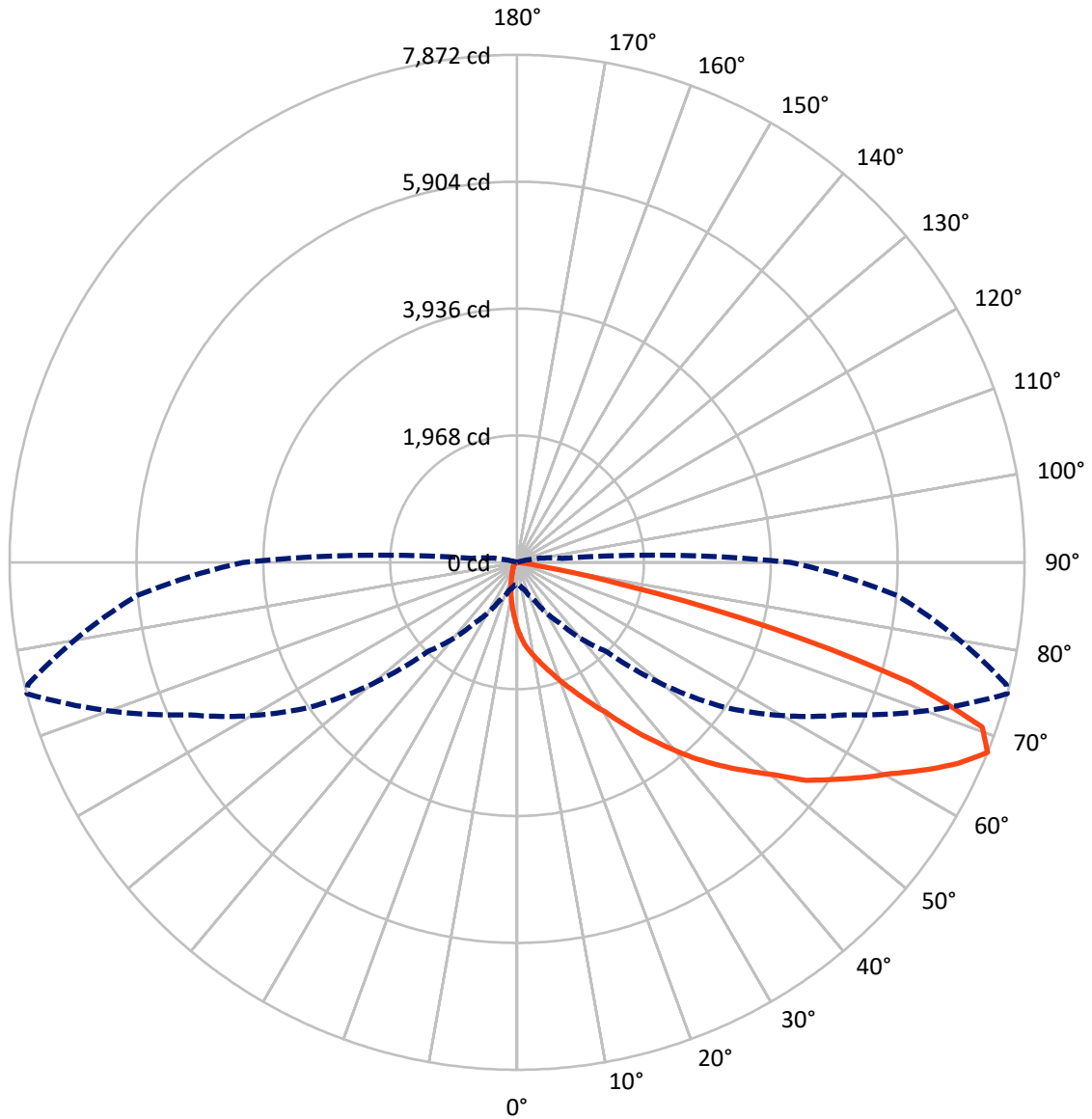
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.2 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	417.6	0.0	417.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7865.4	0.0	7865.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	8283.0	0.0	8283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.1
10°-20°	299.6	3.6
20°-30°	602.3	7.3
30°-40°	1139.2	13.8
40°-50°	1704.3	20.6
50°-60°	1967.6	23.8
60°-70°	1744.1	21.1
70°-80°	705.0	8.5
80°-90°	28.1	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°	8283.0	100.0
0°-180°	8283.0	100.0

Coefficient of Utilization

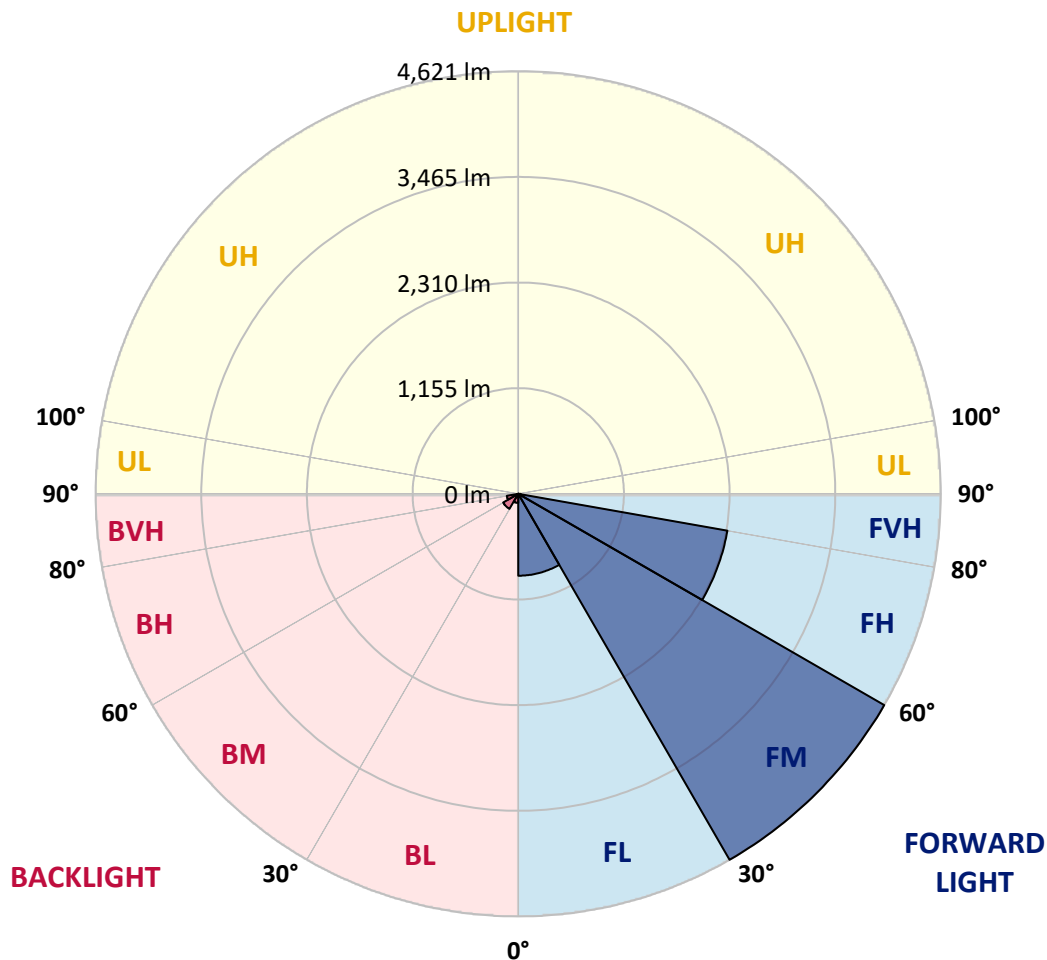


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.5	10.8			
FM (30°-60°)	4620.6	55.8			
FH (60°-80°)	2322.5	28.0			G2/5000
FVH (80°-90°)	26.9	0.3			G1/100
BL (0°-30°)	99.3	1.2	B0/110		
BM (30°-60°)	190.5	2.3	B0/220		
BH (60°-80°)	126.6	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4
2.5°	1432.2	1437.2	1427.2	1404.8	1384.9	1337.7	1300.4	1233.3	1161.2	1161.2	1074.1
5°	1601.3	1596.3	1591.3	1573.9	1559.0	1519.2	1469.5	1397.4	1285.5	1275.5	1131.3
7.5°	1683.3	1678.3	1668.4	1660.9	1660.9	1633.6	1586.3	1511.7	1387.4	1377.5	1183.5
10°	1780.3	1770.3	1770.3	1750.4	1745.5	1713.1	1688.3	1623.6	1486.9	1474.5	1243.2
12.5°	1894.7	1884.7	1887.2	1869.8	1862.3	1827.5	1792.7	1730.6	1593.8	1581.4	1312.8
15°	1959.3	1954.3	1969.3	1971.7	1976.7	1946.9	1914.5	1849.9	1713.1	1695.7	1394.9
17.5°	1996.6	1996.6	2014.0	2046.3	2083.6	2066.2	2041.4	1989.1	1835.0	1825.0	1481.9
20°	2068.7	2061.2	2091.1	2120.9	2168.2	2183.1	2175.6	2135.8	1981.7	1951.8	1576.4
22.5°	2188.1	2178.1	2205.5	2242.8	2299.9	2304.9	2309.9	2290.0	2130.9	2101.0	1675.9
25°	2469.0	2444.2	2419.3	2414.3	2436.7	2456.6	2441.7	2456.6	2299.9	2272.6	1782.8
27.5°	3016.0	2973.8	2854.4	2722.6	2630.6	2648.0	2600.8	2628.2	2493.9	2459.1	1882.2
30°	3540.7	3498.4	3401.4	3167.7	2956.4	2861.9	2792.3	2782.3	2692.8	2653.0	1996.6
32.5°	3906.2	3878.8	3814.2	3657.5	3394.0	3152.8	3018.5	2971.3	2958.8	2896.7	2143.3
35°	4154.8	4130.0	4085.2	3958.4	3764.5	3495.9	3264.7	3160.3	3254.7	3180.1	2309.9
37.5°	4304.0	4286.6	4236.9	4149.8	4045.4	3868.9	3570.5	3403.9	3553.1	3483.5	2523.7
40°	4413.4	4368.7	4333.8	4266.7	4231.9	4174.7	3918.6	3657.5	3876.3	3804.2	2735.1
42.5°	4423.4	4403.5	4376.1	4336.3	4341.3	4378.6	4289.1	3950.9	4202.1	4134.9	2958.8
45°	4420.9	4401.0	4381.1	4341.3	4366.2	4505.4	4587.5	4259.3	4520.3	4450.7	3195.1
47.5°	4348.8	4333.8	4338.8	4338.8	4371.1	4560.1	4818.7	4572.5	4838.6	4771.5	3481.0
50°	4095.1	4110.1	4209.5	4261.7	4318.9	4562.6	4980.3	4900.8	5181.7	5134.5	3757.0
52.5°	3292.0	3376.6	3779.4	4055.4	4222.0	4512.9	5084.7	5246.4	5616.8	5544.7	4070.3
55°	2516.3	2521.2	2909.1	3550.6	4030.5	4423.4	5144.4	5480.1	5947.5	5907.8	4346.3
57.5°	2041.4	2038.9	2230.3	2807.2	3533.2	4281.6	5159.3	5651.7	6298.1	6223.5	4664.5
60°	1668.4	1658.4	1772.8	2128.4	2886.7	3948.4	5104.6	5790.9	6658.7	6631.3	4997.7
62.5°	1205.9	1215.9	1367.5	1643.5	2225.4	3334.3	4987.8	5833.2	7093.8	7066.4	5370.7
65°	693.7	723.6	890.1	1183.5	1705.7	2608.3	4654.6	5800.8	7519.0	7516.5	5716.3
67.5°	348.1	350.6	440.1	661.4	1146.2	1951.8	3918.6	5597.0	7872.0	7817.3	5915.2
70°	223.8	228.8	258.6	340.6	634.0	1352.6	2993.7	5020.1	7650.7	7630.8	5624.3
72.5°	171.6	176.5	201.4	223.8	330.7	768.3	2026.4	3901.2	6387.6	6332.9	4386.1
75°	134.3	136.8	161.6	181.5	221.3	360.5	1016.9	2431.7	4115.0	3973.3	2496.4
77.5°	106.9	109.4	121.8	144.2	169.1	201.4	300.9	1094.0	1673.4	1494.3	810.6
80°	69.6	72.1	92.0	111.9	144.2	131.8	116.9	315.8	358.0	323.2	144.2
82.5°	39.8	42.3	62.2	89.5	109.4	74.6	67.1	92.0	84.5	82.1	44.8
85°	12.4	12.4	42.3	62.2	49.7	22.4	42.3	32.3	27.4	24.9	14.9
87.5°	2.5	2.5	19.9	22.4	7.5	2.5	5.0	7.5	9.9	12.4	7.5
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°	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4	1029.4
2.5°	1031.9	982.1	890.1	810.6	733.5	666.4	619.1	576.9	547.0	539.6	527.1
5°	1039.3	942.4	765.8	616.6	487.3	382.9	323.2	283.5	263.6	251.1	251.1
7.5°	1046.8	902.6	649.0	450.0	308.3	233.7	196.4	179.0	171.6	169.1	166.6
10°	1061.7	872.7	549.5	323.2	211.3	176.5	161.6	154.2	149.2	146.7	146.7
12.5°	1086.6	847.9	457.5	238.7	174.0	156.6	146.7	136.8	131.8	129.3	129.3
15°	1118.9	830.5	377.9	191.5	159.1	141.7	129.3	119.3	111.9	109.4	109.4
17.5°	1163.6	818.0	310.8	169.1	146.7	126.8	111.9	101.9	94.5	92.0	92.0
20°	1208.4	818.0	256.1	156.6	134.3	111.9	97.0	84.5	77.1	74.6	74.6
22.5°	1268.1	815.5	213.8	144.2	119.3	97.0	82.1	67.1	62.2	59.7	59.7
25°	1317.8	815.5	184.0	131.8	104.4	84.5	67.1	54.7	49.7	47.2	47.2
27.5°	1377.5	808.1	156.6	116.9	89.5	69.6	54.7	44.8	39.8	37.3	37.3
30°	1429.7	798.1	139.2	104.4	77.1	57.2	44.8	34.8	32.3	32.3	32.3
32.5°	1516.7	790.7	124.3	89.5	64.6	47.2	34.8	27.4	24.9	24.9	24.9
35°	1621.2	790.7	114.4	77.1	54.7	39.8	27.4	22.4	19.9	19.9	19.9
37.5°	1757.9	798.1	101.9	67.1	44.8	32.3	22.4	17.4	14.9	14.9	14.9
40°	1902.1	815.5	92.0	59.7	39.8	24.9	17.4	12.4	9.9	12.4	12.4
42.5°	2073.7	833.0	82.1	52.2	32.3	19.9	12.4	7.5	5.0	7.5	7.5
45°	2242.8	850.4	77.1	44.8	27.4	14.9	7.5	5.0	2.5	5.0	5.0
47.5°	2451.6	892.6	72.1	39.8	22.4	12.4	5.0	2.5	0.0	2.5	2.5
50°	2692.8	939.9	64.6	32.3	17.4	9.9	5.0	0.0	0.0	0.0	0.0
52.5°	2924.0	979.7	57.2	27.4	14.9	7.5	2.5	0.0	0.0	0.0	0.0
55°	3155.3	1004.5	49.7	22.4	12.4	7.5	2.5	0.0	0.0	0.0	0.0
57.5°	3403.9	1019.4	44.8	19.9	9.9	5.0	2.5	0.0	0.0	0.0	0.0
60°	3679.9	1019.4	37.3	17.4	7.5	5.0	2.5	0.0	0.0	0.0	0.0
62.5°	3985.7	989.6	34.8	14.9	7.5	5.0	2.5	0.0	0.0	0.0	0.0
65°	4234.4	882.7	29.8	12.4	7.5	5.0	2.5	0.0	0.0	0.0	0.0
67.5°	4244.3	698.7	27.4	9.9	7.5	5.0	2.5	0.0	0.0	0.0	0.0
70°	3784.3	477.4	22.4	7.5	5.0	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	2832.0	256.1	19.9	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0
75°	1526.7	99.5	12.4	7.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0
77.5°	445.1	49.7	7.5	5.0	5.0	2.5	2.5	0.0	0.0	0.0	0.0
80°	82.1	24.9	5.0	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	9.9	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	9.9	5.0	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	2.5	2.5	2.5	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)