

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: P595199

Luminaire Tested: **IST-PA1D-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595199
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-PA1D-730-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 6124 lumens
Efficiency: N/A
Efficacy: 98.1 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

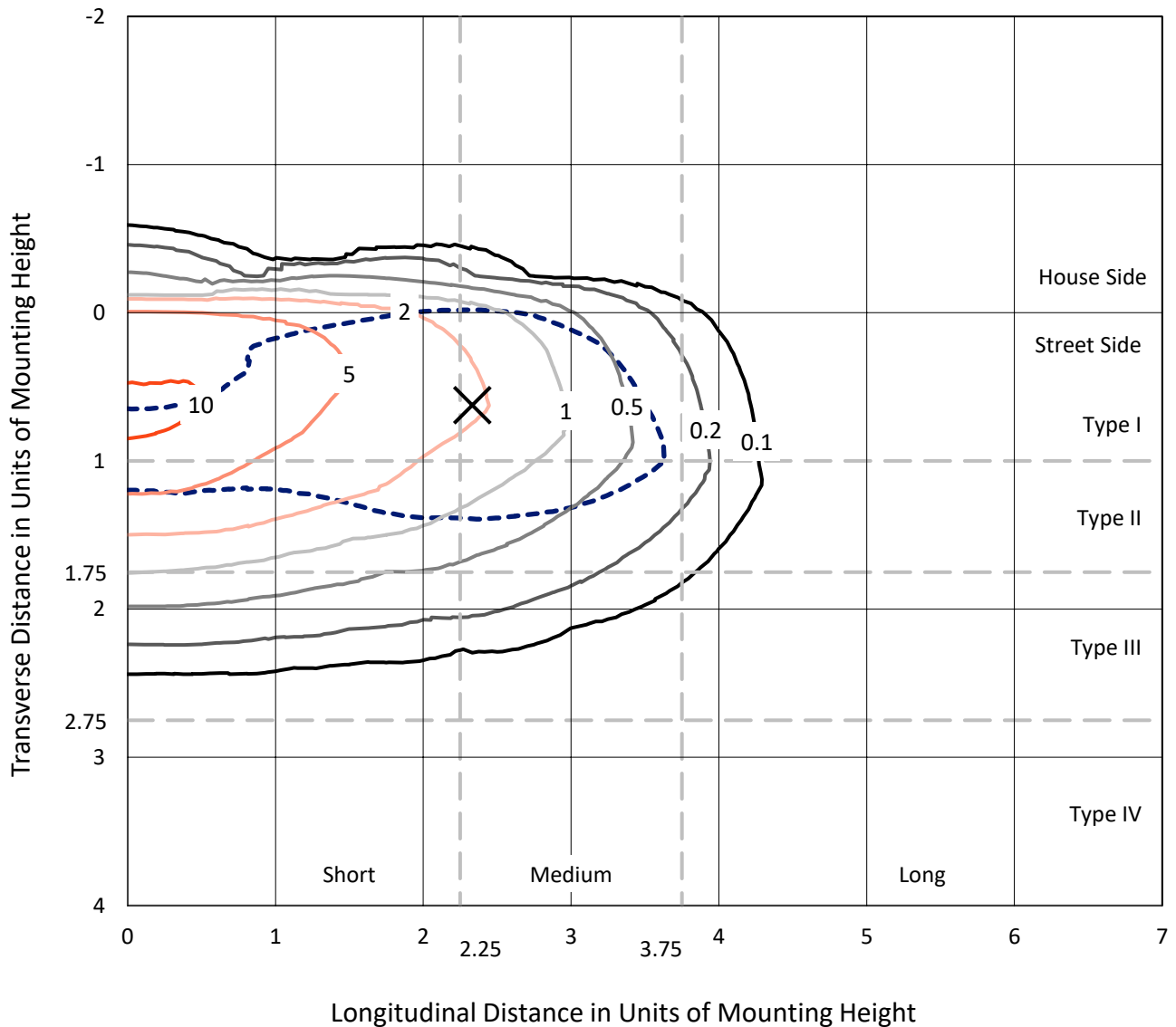
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

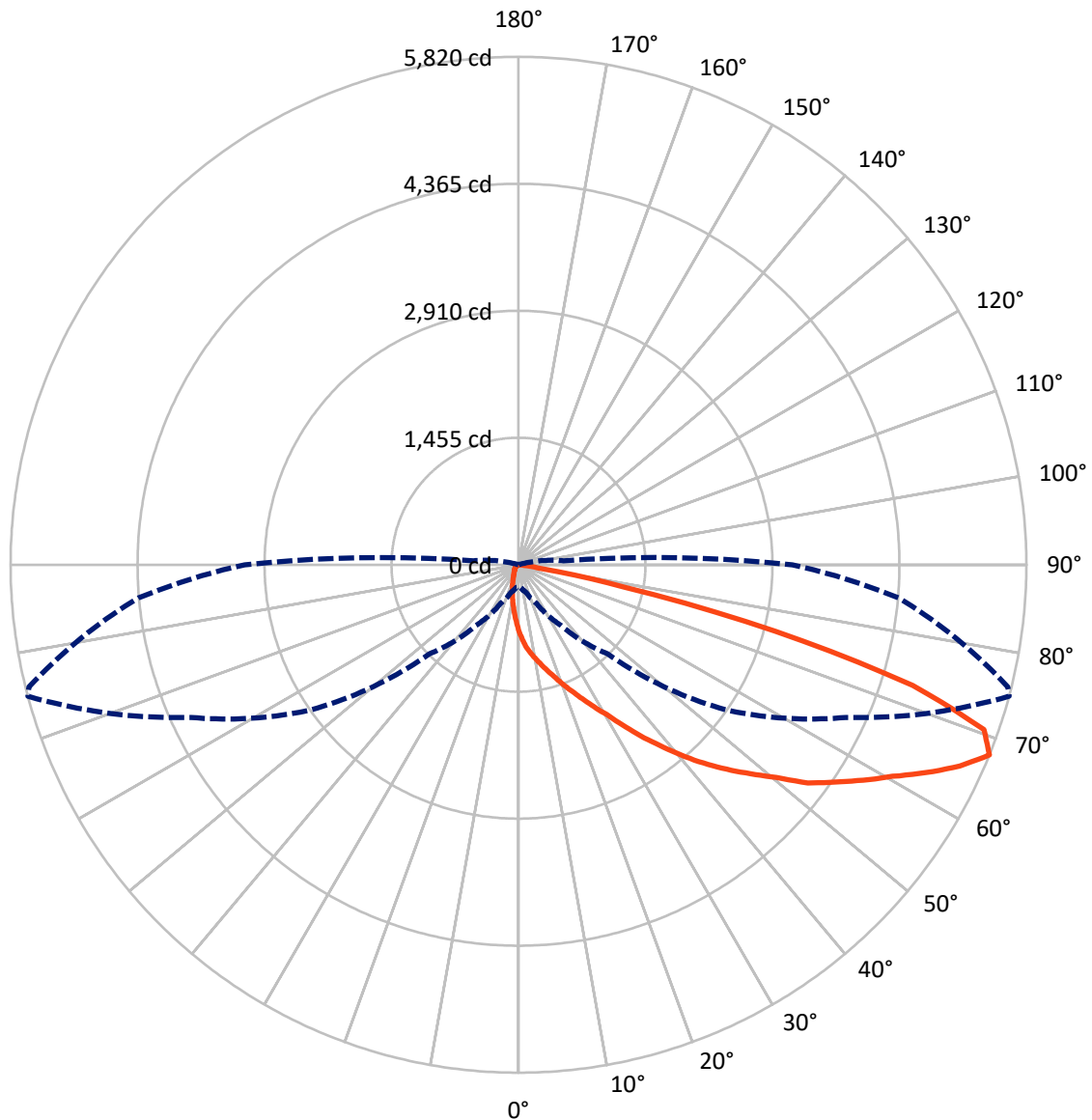
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12 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	308.7	0.0	308.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5815.3	0.0	5815.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	6124.0	0.0	6124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.1
10°-20°	221.5	3.6
20°-30°	445.3	7.3
30°-40°	842.3	13.8
40°-50°	1260.0	20.6
50°-60°	1454.8	23.8
60°-70°	1289.5	21.1
70°-80°	521.2	8.5
80°-90°	20.8	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°	6124.0	100.0
0°-180°	6124.0	100.0

Coefficient of Utilization



REPORT NUMBER: P595199

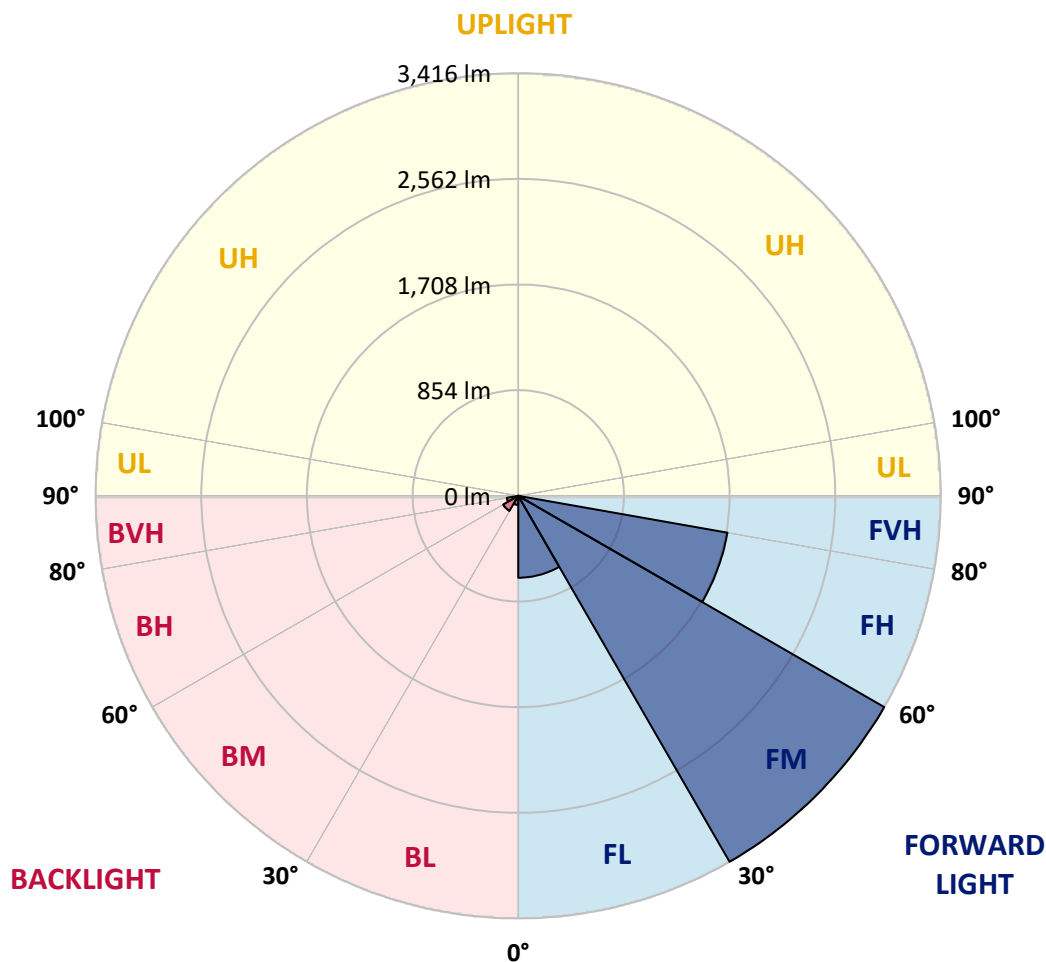
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.1	10.8			
FM (30°-60°)	3416.2	55.8			
FH (60°-80°)	1717.1	28.0			G1/1800
FVH (80°-90°)	19.9	0.3			G1/100
BL (0°-30°)	73.4	1.2	B0/110		
BM (30°-60°)	140.8	2.3	B0/220		
BH (60°-80°)	93.6	1.5	B0/110		G0/110
BVH (80°-90°)	0.9	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°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	1058.9	1062.6	1055.2	1038.7	1023.9	989.0	961.4	911.8	858.5	858.5	794.2
5°	1183.9	1180.2	1176.5	1163.7	1152.6	1123.2	1086.5	1033.1	950.4	943.1	836.4
7.5°	1244.5	1240.9	1233.5	1228.0	1228.0	1207.8	1172.9	1117.7	1025.8	1018.4	875.0
10°	1316.2	1308.9	1308.9	1294.2	1290.5	1266.6	1248.2	1200.4	1099.3	1090.1	919.2
12.5°	1400.8	1393.5	1395.3	1382.4	1376.9	1351.2	1325.4	1279.5	1178.4	1169.2	970.6
15°	1448.6	1444.9	1456.0	1457.8	1461.5	1439.4	1415.5	1367.7	1266.6	1253.7	1031.3
17.5°	1476.2	1476.2	1489.0	1512.9	1540.5	1527.7	1509.3	1470.7	1356.7	1349.3	1095.6
20°	1529.5	1524.0	1546.0	1568.1	1603.0	1614.1	1608.5	1579.1	1465.1	1443.1	1165.5
22.5°	1617.7	1610.4	1630.6	1658.2	1700.5	1704.1	1707.8	1693.1	1575.4	1553.4	1239.0
25°	1825.5	1807.1	1788.7	1785.0	1801.6	1816.3	1805.2	1816.3	1700.5	1680.2	1318.1
27.5°	2229.9	2198.6	2110.4	2013.0	1945.0	1957.8	1922.9	1943.1	1843.8	1818.1	1391.6
30°	2617.8	2586.5	2514.8	2342.0	2185.8	2115.9	2064.4	2057.1	1990.9	1961.5	1476.2
32.5°	2888.0	2867.8	2820.0	2704.2	2509.3	2331.0	2231.7	2196.8	2187.6	2141.7	1584.6
35°	3071.8	3053.5	3020.4	2926.6	2783.2	2584.7	2413.7	2336.5	2406.4	2351.2	1707.8
37.5°	3182.1	3169.3	3132.5	3068.2	2991.0	2860.4	2639.8	2516.7	2627.0	2575.5	1865.9
40°	3263.0	3229.9	3204.2	3154.6	3128.8	3086.6	2897.2	2704.2	2866.0	2812.6	2022.2
42.5°	3270.4	3255.7	3235.5	3206.0	3209.7	3237.3	3171.1	2921.1	3106.8	3057.1	2187.6
45°	3268.6	3253.8	3239.1	3209.7	3228.1	3331.1	3391.7	3149.1	3342.1	3290.6	2362.3
47.5°	3215.2	3204.2	3207.9	3207.9	3231.8	3371.5	3562.7	3380.7	3577.4	3527.8	2573.7
50°	3027.7	3038.8	3112.3	3150.9	3193.2	3373.3	3682.2	3623.3	3831.1	3796.2	2777.7
52.5°	2433.9	2496.5	2794.3	2998.3	3121.5	3336.6	3759.4	3878.9	4152.8	4099.5	3009.3
55°	1860.4	1864.1	2150.8	2625.1	2979.9	3270.4	3803.5	4051.7	4397.3	4367.9	3213.4
57.5°	1509.3	1507.4	1649.0	2075.5	2612.3	3165.6	3814.5	4178.5	4656.5	4601.3	3448.7
60°	1233.5	1226.2	1310.7	1573.6	2134.3	2919.3	3774.1	4281.5	4923.0	4902.8	3695.0
62.5°	891.6	898.9	1011.1	1215.1	1645.3	2465.2	3687.7	4312.7	5244.8	5224.5	3970.8
65°	512.9	535.0	658.1	875.0	1261.1	1928.4	3441.4	4288.8	5559.1	5557.3	4226.3
67.5°	257.4	259.2	325.4	489.0	847.5	1443.1	2897.2	4138.1	5820.2	5779.7	4373.4
70°	165.4	169.1	191.2	251.9	468.8	1000.1	2213.3	3711.6	5656.5	5641.8	4158.3
72.5°	126.8	130.5	148.9	165.4	244.5	568.0	1498.2	2884.3	4722.7	4682.2	3242.8
75°	99.3	101.1	119.5	134.2	163.6	266.6	751.9	1797.9	3042.4	2937.7	1845.7
77.5°	79.0	80.9	90.1	106.6	125.0	148.9	222.4	808.9	1237.2	1104.8	599.3
80°	51.5	53.3	68.0	82.7	106.6	97.4	86.4	233.5	264.7	239.0	106.6
82.5°	29.4	31.3	46.0	66.2	80.9	55.1	49.6	68.0	62.5	60.7	33.1
85°	9.2	9.2	31.3	46.0	36.8	16.5	31.3	23.9	20.2	18.4	11.0
87.5°	1.8	1.8	14.7	16.5	5.5	1.8	3.7	5.5	7.4	9.2	5.5
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°	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1	761.1
2.5°	762.9	726.1	658.1	599.3	542.3	492.7	457.7	426.5	404.4	398.9	389.7
5°	768.4	696.7	566.2	455.9	360.3	283.1	239.0	209.6	194.9	185.7	185.7
7.5°	773.9	667.3	479.8	332.7	228.0	172.8	145.2	132.4	126.8	125.0	123.2
10°	785.0	645.3	406.3	239.0	156.3	130.5	119.5	114.0	110.3	108.5	108.5
12.5°	803.4	626.9	338.3	176.5	128.7	115.8	108.5	101.1	97.4	95.6	95.6
15°	827.2	614.0	279.4	141.6	117.7	104.8	95.6	88.2	82.7	80.9	80.9
17.5°	860.3	604.8	229.8	125.0	108.5	93.8	82.7	75.4	69.9	68.0	68.0
20°	893.4	604.8	189.3	115.8	99.3	82.7	71.7	62.5	57.0	55.1	55.1
22.5°	937.5	603.0	158.1	106.6	88.2	71.7	60.7	49.6	46.0	44.1	44.1
25°	974.3	603.0	136.0	97.4	77.2	62.5	49.6	40.4	36.8	34.9	34.9
27.5°	1018.4	597.5	115.8	86.4	66.2	51.5	40.4	33.1	29.4	27.6	27.6
30°	1057.0	590.1	102.9	77.2	57.0	42.3	33.1	25.7	23.9	23.9	23.9
32.5°	1121.4	584.6	91.9	66.2	47.8	34.9	25.7	20.2	18.4	18.4	18.4
35°	1198.6	584.6	84.6	57.0	40.4	29.4	20.2	16.5	14.7	14.7	14.7
37.5°	1299.7	590.1	75.4	49.6	33.1	23.9	16.5	12.9	11.0	11.0	11.0
40°	1406.3	603.0	68.0	44.1	29.4	18.4	12.9	9.2	7.4	9.2	9.2
42.5°	1533.2	615.8	60.7	38.6	23.9	14.7	9.2	5.5	3.7	5.5	5.5
45°	1658.2	628.7	57.0	33.1	20.2	11.0	5.5	3.7	1.8	3.7	3.7
47.5°	1812.6	660.0	53.3	29.4	16.5	9.2	3.7	1.8	0.0	1.8	1.8
50°	1990.9	694.9	47.8	23.9	12.9	7.4	3.7	0.0	0.0	0.0	0.0
52.5°	2161.9	724.3	42.3	20.2	11.0	5.5	1.8	0.0	0.0	0.0	0.0
55°	2332.8	742.7	36.8	16.5	9.2	5.5	1.8	0.0	0.0	0.0	0.0
57.5°	2516.7	753.7	33.1	14.7	7.4	3.7	1.8	0.0	0.0	0.0	0.0
60°	2720.7	753.7	27.6	12.9	5.5	3.7	1.8	0.0	0.0	0.0	0.0
62.5°	2946.8	731.7	25.7	11.0	5.5	3.7	1.8	0.0	0.0	0.0	0.0
65°	3130.7	652.6	22.1	9.2	5.5	3.7	1.8	0.0	0.0	0.0	0.0
67.5°	3138.0	516.6	20.2	7.4	5.5	3.7	1.8	0.0	0.0	0.0	0.0
70°	2797.9	353.0	16.5	5.5	3.7	3.7	1.8	0.0	0.0	0.0	0.0
72.5°	2093.9	189.3	14.7	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0
75°	1128.7	73.5	9.2	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0
77.5°	329.1	36.8	5.5	3.7	3.7	1.8	1.8	0.0	0.0	0.0	0.0
80°	60.7	18.4	3.7	3.7	3.7	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	7.4	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	7.4	3.7	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.8	1.8	1.8	1.8	1.8	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)