

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: P594956

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594956
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-PA1A-735-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID 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: 3103 lumens
Efficiency: N/A
Efficacy: 107.7 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): 28.8
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

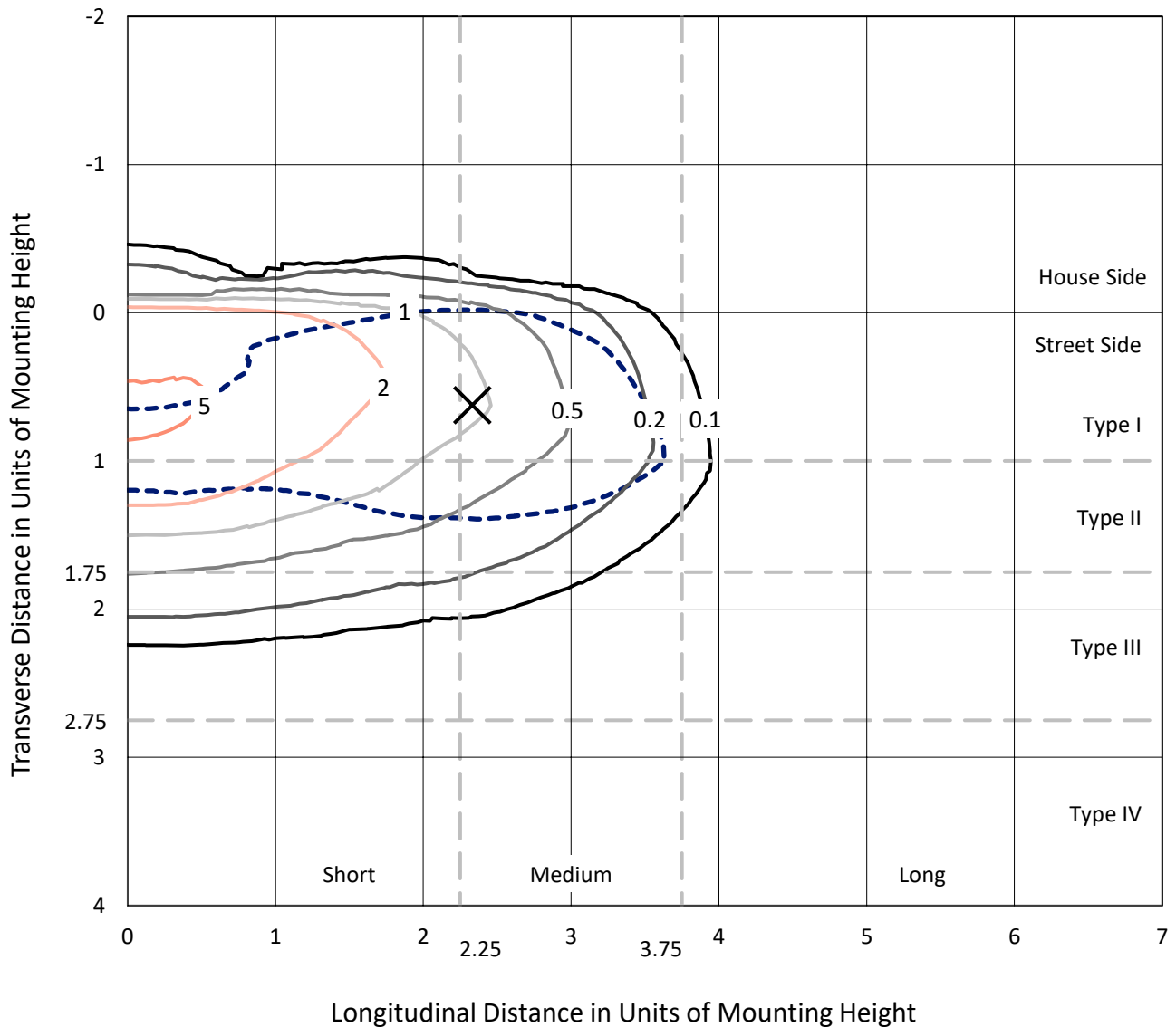




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Iso-Footcandle Lines of Horizontal Illumination

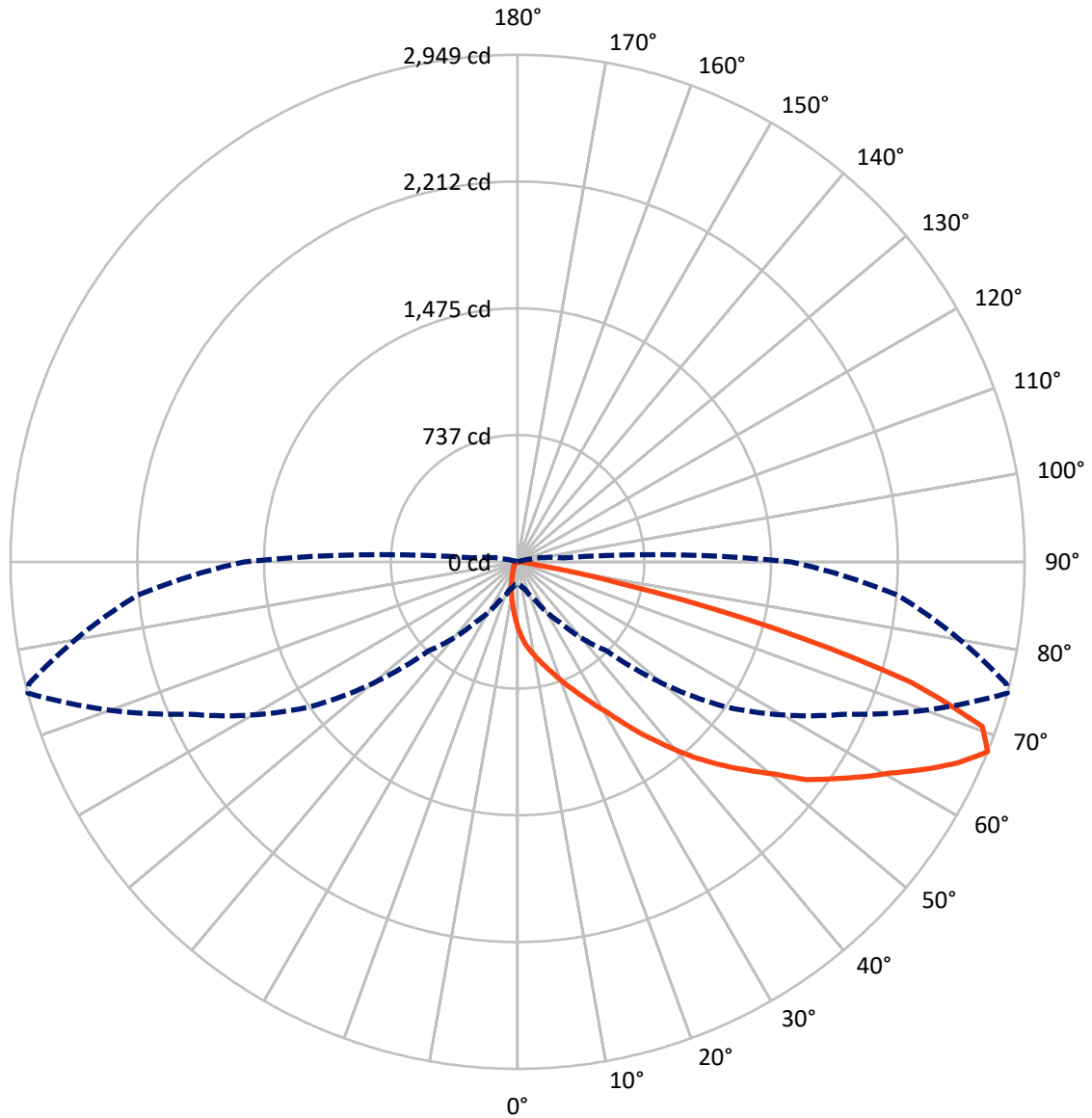
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 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	156.4	0.0	156.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2946.6	0.0	2946.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3103.0	0.0	3103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.1
10°-20°	112.2	3.6
20°-30°	225.6	7.3
30°-40°	426.8	13.8
40°-50°	638.5	20.6
50°-60°	737.1	23.8
60°-70°	653.4	21.1
70°-80°	264.1	8.5
80°-90°	10.5	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°	3103.0	100.0
0°-180°	3103.0	100.0

Coefficient of Utilization

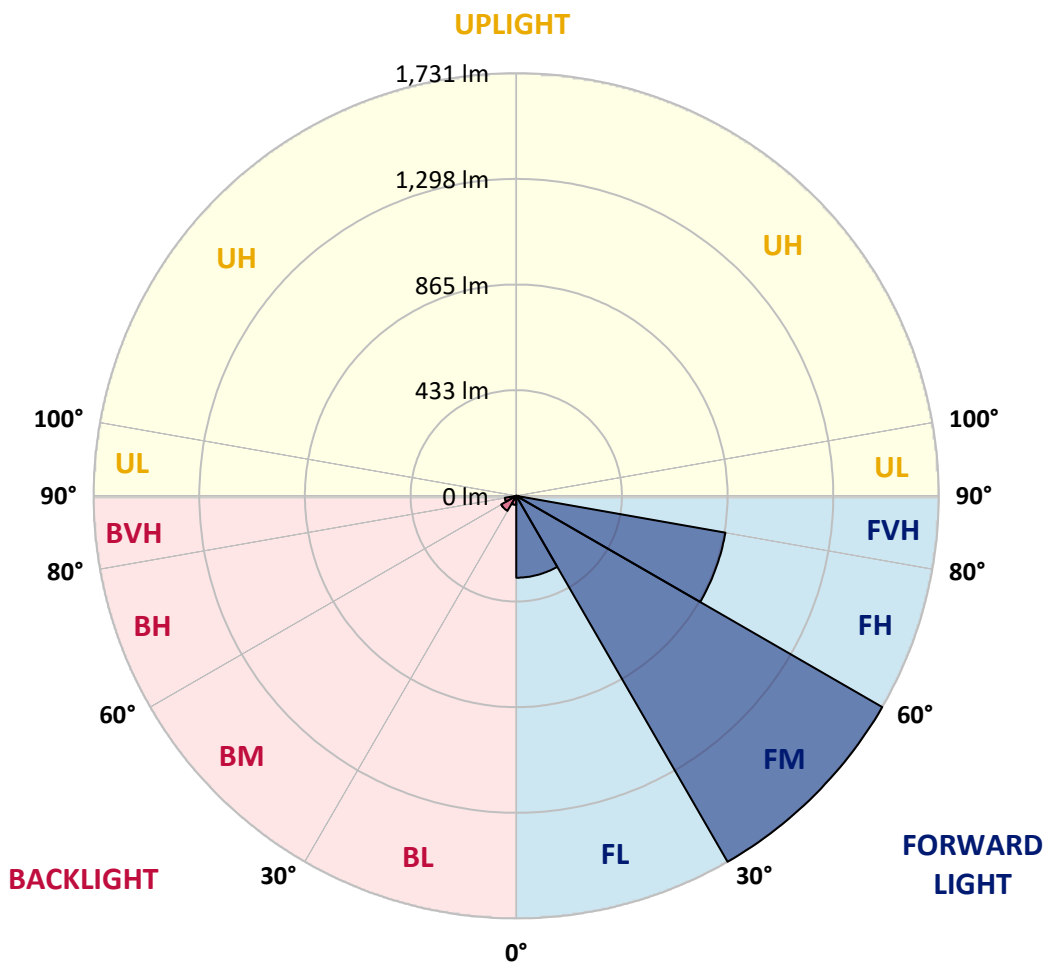


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.5	10.8			
FM (30°-60°)	1731.0	55.8			
FH (60°-80°)	870.0	28.0			G1/1800
FVH (80°-90°)	10.1	0.3			G1/100
BL (0°-30°)	37.2	1.2	B0/110		
BM (30°-60°)	71.4	2.3	B0/220		
BH (60°-80°)	47.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6
2.5°	536.5	538.4	534.7	526.3	518.8	501.1	487.2	462.0	435.0	435.0	402.4
5°	599.9	598.0	596.1	589.6	584.0	569.1	550.5	523.5	481.6	477.8	423.8
7.5°	630.6	628.7	625.0	622.2	622.2	612.0	594.3	566.3	519.8	516.0	443.4
10°	666.9	663.2	663.2	655.8	653.9	641.8	632.5	608.3	557.0	552.4	465.7
12.5°	709.8	706.1	707.0	700.5	697.7	684.6	671.6	648.3	597.1	592.4	491.8
15°	734.0	732.1	737.7	738.7	740.5	729.3	717.2	693.0	641.8	635.3	522.6
17.5°	748.0	748.0	754.5	766.6	780.6	774.1	764.7	745.2	687.4	683.7	555.2
20°	775.0	772.2	783.4	794.5	812.2	817.8	815.0	800.1	742.4	731.2	590.6
22.5°	819.7	816.0	826.2	840.2	861.6	863.5	865.3	857.9	798.3	787.1	627.8
25°	925.0	915.6	906.3	904.5	912.8	920.3	914.7	920.3	861.6	851.4	667.9
27.5°	1129.9	1114.0	1069.3	1020.0	985.5	992.0	974.3	984.6	934.3	921.2	705.1
30°	1326.4	1310.6	1274.3	1186.7	1107.5	1072.1	1046.0	1042.3	1008.8	993.9	748.0
32.5°	1463.3	1453.1	1428.9	1370.2	1271.5	1181.1	1130.8	1113.1	1108.5	1085.2	802.9
35°	1556.5	1547.2	1530.4	1482.9	1410.2	1309.7	1223.0	1183.9	1219.3	1191.4	865.3
37.5°	1612.4	1605.9	1587.2	1554.6	1515.5	1449.4	1337.6	1275.2	1331.1	1305.0	945.4
40°	1653.4	1636.6	1623.6	1598.4	1585.4	1563.9	1468.0	1370.2	1452.2	1425.2	1024.6
42.5°	1657.1	1649.6	1639.4	1624.5	1626.4	1640.3	1606.8	1480.1	1574.2	1549.0	1108.5
45°	1656.2	1648.7	1641.3	1626.4	1635.7	1687.8	1718.6	1595.6	1693.4	1667.3	1196.9
47.5°	1629.1	1623.6	1625.4	1625.4	1637.5	1708.3	1805.2	1713.0	1812.6	1787.5	1304.1
50°	1534.1	1539.7	1577.0	1596.5	1618.0	1709.3	1865.7	1835.9	1941.2	1923.5	1407.5
52.5°	1233.3	1264.9	1415.8	1519.2	1581.6	1690.6	1904.9	1965.4	2104.2	2077.2	1524.8
55°	942.7	944.5	1089.8	1330.1	1509.9	1657.1	1927.2	2053.0	2228.1	2213.2	1628.2
57.5°	764.7	763.8	835.5	1051.6	1323.6	1604.0	1932.8	2117.2	2359.4	2331.5	1747.4
60°	625.0	621.3	664.1	797.3	1081.4	1479.2	1912.3	2169.4	2494.5	2484.2	1872.3
62.5°	451.8	455.5	512.3	615.7	833.7	1249.1	1868.5	2185.2	2657.5	2647.2	2012.0
65°	259.9	271.1	333.5	443.4	639.0	977.1	1743.7	2173.1	2816.8	2815.8	2141.5
67.5°	130.4	131.3	164.9	247.8	429.4	731.2	1468.0	2096.7	2949.0	2928.5	2216.0
70°	83.8	85.7	96.9	127.6	237.5	506.7	1121.5	1880.6	2866.1	2858.7	2107.0
72.5°	64.3	66.1	75.4	83.8	123.9	287.8	759.2	1461.5	2393.0	2372.5	1643.1
75°	50.3	51.2	60.5	68.0	82.9	135.1	381.0	911.0	1541.6	1488.5	935.2
77.5°	40.1	41.0	45.6	54.0	63.3	75.4	112.7	409.8	626.9	559.8	303.7
80°	26.1	27.0	34.5	41.9	54.0	49.4	43.8	118.3	134.1	121.1	54.0
82.5°	14.9	15.8	23.3	33.5	41.0	27.9	25.1	34.5	31.7	30.7	16.8
85°	4.7	4.7	15.8	23.3	18.6	8.4	15.8	12.1	10.2	9.3	5.6
87.5°	0.9	0.9	7.5	8.4	2.8	0.9	1.9	2.8	3.7	4.7	2.8
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°	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6	385.6
2.5°	386.6	367.9	333.5	303.7	274.8	249.6	231.9	216.1	204.9	202.1	197.5
5°	389.4	353.0	286.9	231.0	182.6	143.4	121.1	106.2	98.7	94.1	94.1
7.5°	392.1	338.1	243.1	168.6	115.5	87.6	73.6	67.1	64.3	63.3	62.4
10°	397.7	326.9	205.9	121.1	79.2	66.1	60.5	57.8	55.9	55.0	55.0
12.5°	407.1	317.6	171.4	89.4	65.2	58.7	55.0	51.2	49.4	48.4	48.4
15°	419.2	311.1	141.6	71.7	59.6	53.1	48.4	44.7	41.9	41.0	41.0
17.5°	435.9	306.5	116.4	63.3	55.0	47.5	41.9	38.2	35.4	34.5	34.5
20°	452.7	306.5	95.9	58.7	50.3	41.9	36.3	31.7	28.9	27.9	27.9
22.5°	475.1	305.5	80.1	54.0	44.7	36.3	30.7	25.1	23.3	22.4	22.4
25°	493.7	305.5	68.9	49.4	39.1	31.7	25.1	20.5	18.6	17.7	17.7
27.5°	516.0	302.7	58.7	43.8	33.5	26.1	20.5	16.8	14.9	14.0	14.0
30°	535.6	299.0	52.2	39.1	28.9	21.4	16.8	13.0	12.1	12.1	12.1
32.5°	568.2	296.2	46.6	33.5	24.2	17.7	13.0	10.2	9.3	9.3	9.3
35°	607.3	296.2	42.8	28.9	20.5	14.9	10.2	8.4	7.5	7.5	7.5
37.5°	658.6	299.0	38.2	25.1	16.8	12.1	8.4	6.5	5.6	5.6	5.6
40°	712.6	305.5	34.5	22.4	14.9	9.3	6.5	4.7	3.7	4.7	4.7
42.5°	776.8	312.0	30.7	19.6	12.1	7.5	4.7	2.8	1.9	2.8	2.8
45°	840.2	318.6	28.9	16.8	10.2	5.6	2.8	1.9	0.9	1.9	1.9
47.5°	918.4	334.4	27.0	14.9	8.4	4.7	1.9	0.9	0.0	0.9	0.9
50°	1008.8	352.1	24.2	12.1	6.5	3.7	1.9	0.0	0.0	0.0	0.0
52.5°	1095.4	367.0	21.4	10.2	5.6	2.8	0.9	0.0	0.0	0.0	0.0
55°	1182.0	376.3	18.6	8.4	4.7	2.8	0.9	0.0	0.0	0.0	0.0
57.5°	1275.2	381.9	16.8	7.5	3.7	1.9	0.9	0.0	0.0	0.0	0.0
60°	1378.6	381.9	14.0	6.5	2.8	1.9	0.9	0.0	0.0	0.0	0.0
62.5°	1493.2	370.7	13.0	5.6	2.8	1.9	0.9	0.0	0.0	0.0	0.0
65°	1586.3	330.7	11.2	4.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
67.5°	1590.0	261.7	10.2	3.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
70°	1417.7	178.8	8.4	2.8	1.9	1.9	0.9	0.0	0.0	0.0	0.0
72.5°	1060.9	95.9	7.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0	0.0
75°	571.9	37.3	4.7	2.8	1.9	0.9	0.9	0.0	0.0	0.0	0.0
77.5°	166.7	18.6	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0	0.0
80°	30.7	9.3	1.9	1.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	3.7	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.7	1.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.9	0.9	0.9	0.9	0.9	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)