

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: P594947

Luminaire Tested: **IST-PA1A-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594947
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-730-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 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: 3034 lumens
Efficiency: N/A
Efficacy: 105.3 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

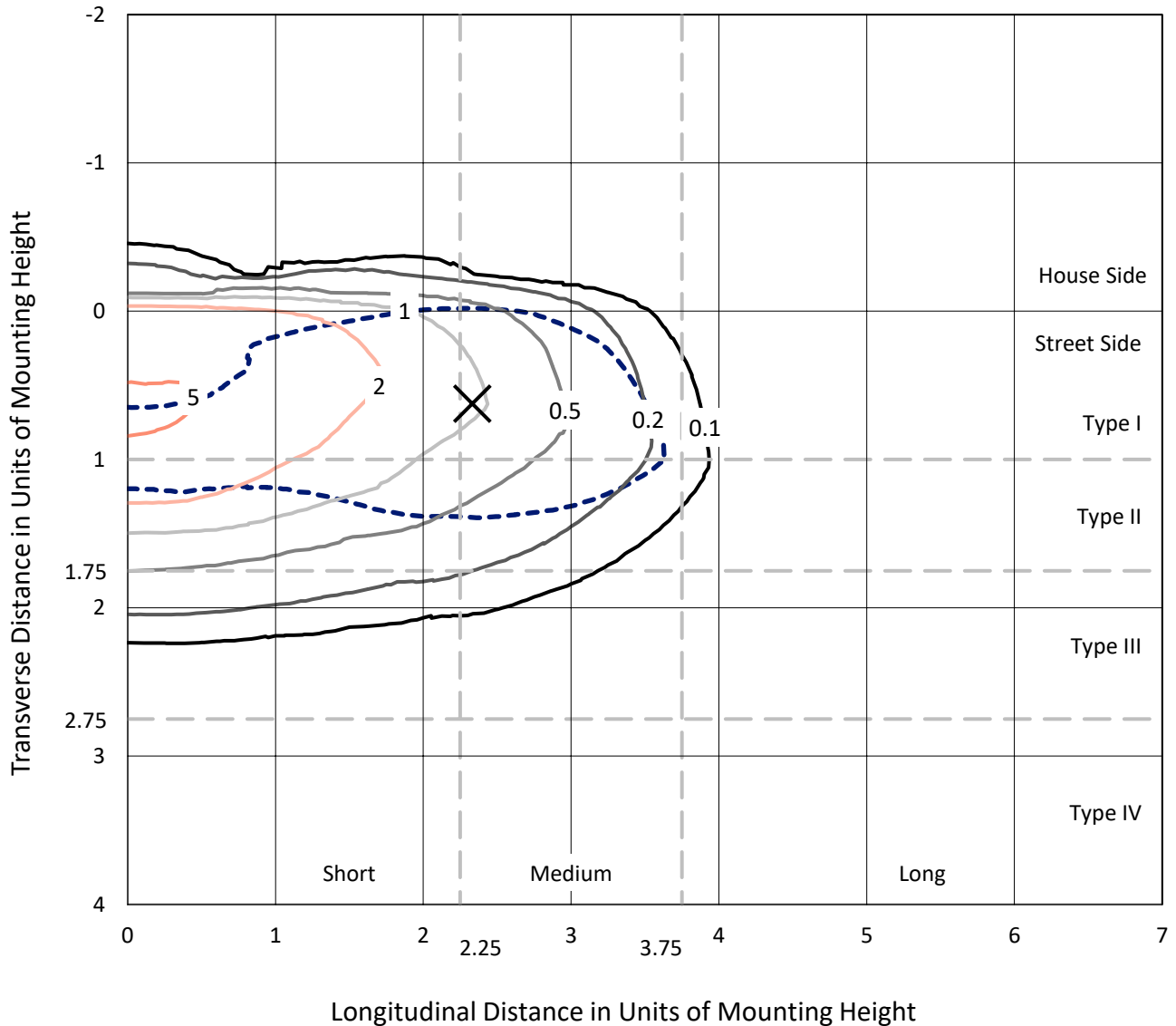
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

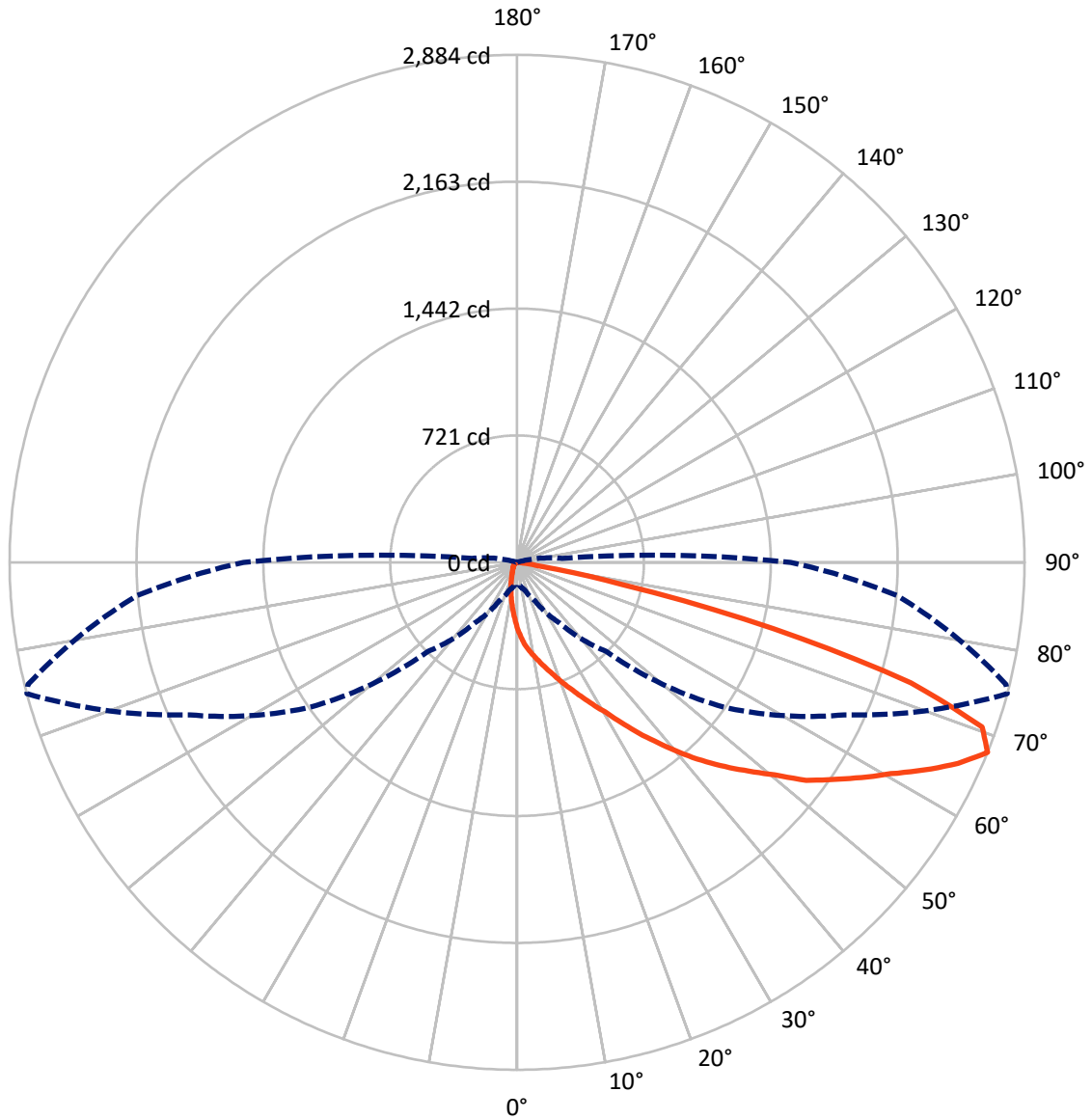
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 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	152.9	0.0	152.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2881.0	0.0	2881.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	3034.0	0.0	3034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.1
10°-20°	109.7	3.6
20°-30°	220.6	7.3
30°-40°	417.3	13.8
40°-50°	624.3	20.6
50°-60°	720.7	23.8
60°-70°	638.9	21.1
70°-80°	258.2	8.5
80°-90°	10.3	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°	3034.0	100.0
0°-180°	3034.0	100.0

Coefficient of Utilization



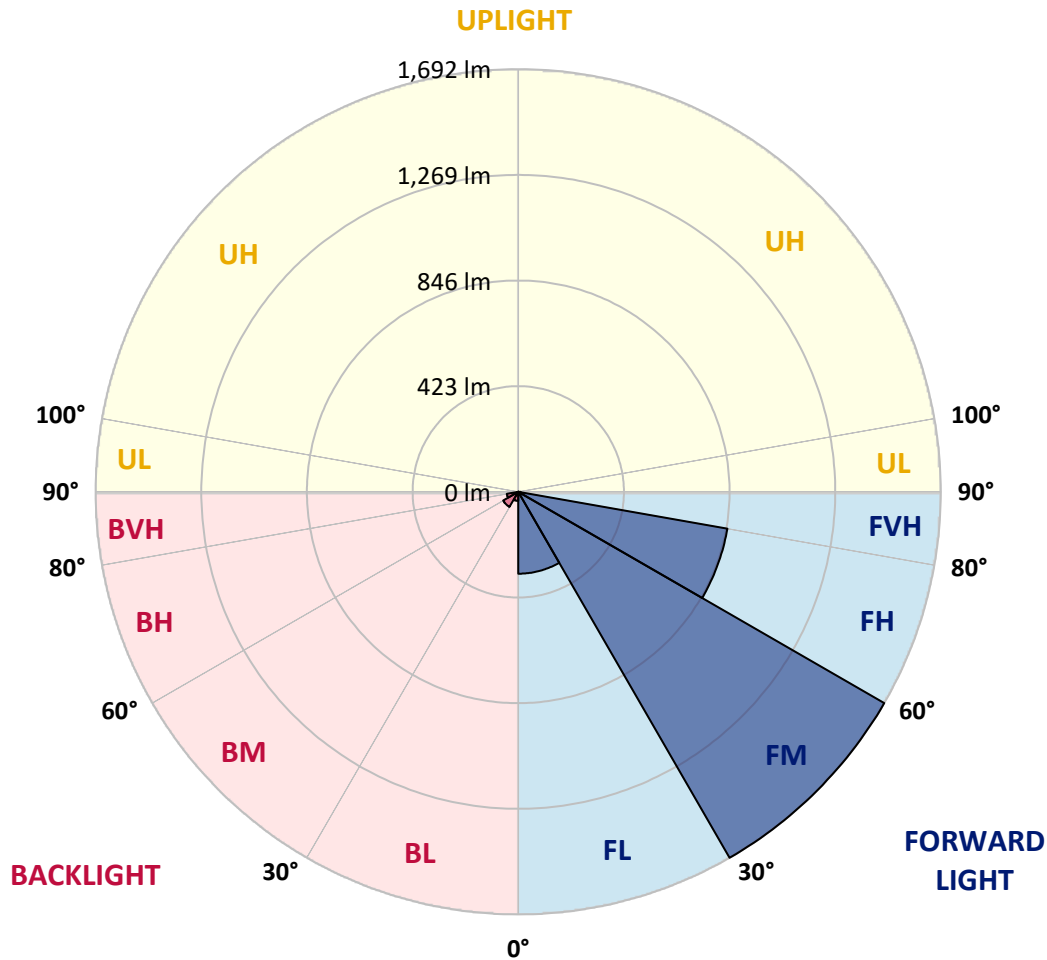
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.0	10.8			
FM (30°-60°)	1692.5	55.8			
FH (60°-80°)	850.7	28.0			G1/1800
FVH (80°-90°)	9.9	0.3			G0/10
BL (0°-30°)	36.4	1.2	B0/110		
BM (30°-60°)	69.8	2.3	B0/220		
BH (60°-80°)	46.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1
2.5°	524.6	526.4	522.8	514.6	507.3	490.0	476.3	451.7	425.3	425.3	393.4
5°	586.5	584.7	582.9	576.5	571.0	556.5	538.3	511.8	470.9	467.2	414.4
7.5°	616.6	614.8	611.1	608.4	608.4	598.4	581.1	553.7	508.2	504.6	433.5
10°	652.1	648.5	648.5	641.2	639.4	627.5	618.4	594.7	544.6	540.1	455.4
12.5°	694.0	690.4	691.3	684.9	682.2	669.4	656.7	633.9	583.8	579.2	480.9
15°	717.7	715.9	721.3	722.2	724.1	713.1	701.3	677.6	627.5	621.1	510.9
17.5°	731.3	731.3	737.7	749.6	763.2	756.8	747.7	728.6	672.1	668.5	542.8
20°	757.8	755.0	765.9	776.9	794.2	799.6	796.9	782.3	725.9	714.9	577.4
22.5°	801.5	797.8	807.8	821.5	842.5	844.3	846.1	838.8	780.5	769.6	613.9
25°	904.4	895.3	886.2	884.3	892.5	899.8	894.4	899.8	842.5	832.4	653.0
27.5°	1104.8	1089.3	1045.6	997.3	963.6	970.0	952.7	962.7	913.5	900.7	689.4
30°	1296.9	1281.4	1245.9	1160.3	1082.9	1048.3	1022.8	1019.1	986.4	971.8	731.3
32.5°	1430.8	1420.8	1397.1	1339.7	1243.2	1154.8	1105.7	1088.4	1083.8	1061.0	785.1
35°	1521.9	1512.8	1496.4	1449.9	1378.9	1280.5	1195.8	1157.6	1192.2	1164.9	846.1
37.5°	1576.5	1570.2	1551.9	1520.1	1481.8	1417.1	1307.9	1246.8	1301.5	1276.0	924.4
40°	1616.6	1600.2	1587.5	1562.9	1550.1	1529.2	1435.4	1339.7	1419.9	1393.5	1001.8
42.5°	1620.2	1613.0	1602.9	1588.4	1590.2	1603.8	1571.1	1447.2	1539.2	1514.6	1083.8
45°	1619.3	1612.0	1604.8	1590.2	1599.3	1650.3	1680.4	1560.1	1655.8	1630.3	1170.3
47.5°	1592.9	1587.5	1589.3	1589.3	1601.1	1670.3	1765.1	1674.9	1772.3	1747.7	1275.1
50°	1500.0	1505.5	1541.9	1561.0	1582.0	1671.2	1824.3	1795.1	1898.0	1880.7	1376.2
52.5°	1205.8	1236.8	1384.4	1485.4	1546.5	1653.0	1862.5	1921.7	2057.4	2031.0	1490.9
55°	921.7	923.5	1065.6	1300.6	1476.3	1620.2	1884.4	2007.3	2178.5	2164.0	1592.0
57.5°	747.7	746.8	817.0	1028.2	1294.2	1568.3	1889.8	2070.2	2307.0	2279.6	1708.6
60°	611.1	607.5	649.4	779.6	1057.4	1446.3	1869.8	2121.2	2439.0	2429.0	1830.6
62.5°	441.7	445.4	500.9	602.0	815.1	1221.3	1827.0	2136.6	2598.4	2588.4	1967.2
65°	254.1	265.0	326.1	433.5	624.8	955.4	1704.9	2124.8	2754.1	2753.2	2093.8
67.5°	127.5	128.4	161.2	242.3	419.9	714.9	1435.4	2050.1	2883.5	2863.4	2166.7
70°	82.0	83.8	94.7	124.8	232.2	495.5	1096.6	1838.8	2802.4	2795.1	2060.1
72.5°	62.8	64.7	73.8	82.0	121.1	281.4	742.3	1429.0	2339.7	2319.7	1606.6
75°	49.2	50.1	59.2	66.5	81.1	132.1	372.5	890.7	1507.3	1455.4	914.4
77.5°	39.2	40.1	44.6	52.8	61.9	73.8	110.2	400.7	612.9	547.4	296.9
80°	25.5	26.4	33.7	41.0	52.8	48.3	42.8	115.7	131.1	118.4	52.8
82.5°	14.6	15.5	22.8	32.8	40.1	27.3	24.6	33.7	31.0	30.1	16.4
85°	4.6	4.6	15.5	22.8	18.2	8.2	15.5	11.8	10.0	9.1	5.5
87.5°	0.9	0.9	7.3	8.2	2.7	0.9	1.8	2.7	3.6	4.6	2.7
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°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1	377.1
2.5°	378.0	359.8	326.1	296.9	268.7	244.1	226.8	211.3	200.4	197.6	193.1
5°	380.7	345.2	280.5	225.9	178.5	140.3	118.4	103.8	96.5	92.0	92.0
7.5°	383.4	330.6	237.7	164.8	112.9	85.6	72.0	65.6	62.8	61.9	61.0
10°	388.9	319.7	201.3	118.4	77.4	64.7	59.2	56.5	54.6	53.7	53.7
12.5°	398.0	310.6	167.6	87.4	63.8	57.4	53.7	50.1	48.3	47.4	47.4
15°	409.8	304.2	138.4	70.1	58.3	51.9	47.4	43.7	41.0	40.1	40.1
17.5°	426.2	299.6	113.8	61.9	53.7	46.4	41.0	37.3	34.6	33.7	33.7
20°	442.6	299.6	93.8	57.4	49.2	41.0	35.5	31.0	28.2	27.3	27.3
22.5°	464.5	298.7	78.3	52.8	43.7	35.5	30.1	24.6	22.8	21.9	21.9
25°	482.7	298.7	67.4	48.3	38.3	31.0	24.6	20.0	18.2	17.3	17.3
27.5°	504.6	296.0	57.4	42.8	32.8	25.5	20.0	16.4	14.6	13.7	13.7
30°	523.7	292.4	51.0	38.3	28.2	20.9	16.4	12.8	11.8	11.8	11.8
32.5°	555.6	289.6	45.5	32.8	23.7	17.3	12.8	10.0	9.1	9.1	9.1
35°	593.8	289.6	41.9	28.2	20.0	14.6	10.0	8.2	7.3	7.3	7.3
37.5°	643.9	292.4	37.3	24.6	16.4	11.8	8.2	6.4	5.5	5.5	5.5
40°	696.7	298.7	33.7	21.9	14.6	9.1	6.4	4.6	3.6	4.6	4.6
42.5°	759.6	305.1	30.1	19.1	11.8	7.3	4.6	2.7	1.8	2.7	2.7
45°	821.5	311.5	28.2	16.4	10.0	5.5	2.7	1.8	0.9	1.8	1.8
47.5°	898.0	327.0	26.4	14.6	8.2	4.6	1.8	0.9	0.0	0.9	0.9
50°	986.4	344.3	23.7	11.8	6.4	3.6	1.8	0.0	0.0	0.0	0.0
52.5°	1071.1	358.8	20.9	10.0	5.5	2.7	0.9	0.0	0.0	0.0	0.0
55°	1155.8	367.9	18.2	8.2	4.6	2.7	0.9	0.0	0.0	0.0	0.0
57.5°	1246.8	373.4	16.4	7.3	3.6	1.8	0.9	0.0	0.0	0.0	0.0
60°	1347.9	373.4	13.7	6.4	2.7	1.8	0.9	0.0	0.0	0.0	0.0
62.5°	1459.9	362.5	12.8	5.5	2.7	1.8	0.9	0.0	0.0	0.0	0.0
65°	1551.0	323.3	10.9	4.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	1554.7	255.9	10.0	3.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
70°	1386.2	174.9	8.2	2.7	1.8	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1037.4	93.8	7.3	2.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0
75°	559.2	36.4	4.6	2.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0
77.5°	163.0	18.2	2.7	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
80°	30.1	9.1	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	3.6	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	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)