

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: P595082

Luminaire Tested: **IST-PA1B-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595082
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-PA1B-827-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 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: 3072 lumens
Efficiency: N/A
Efficacy: 84.4 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

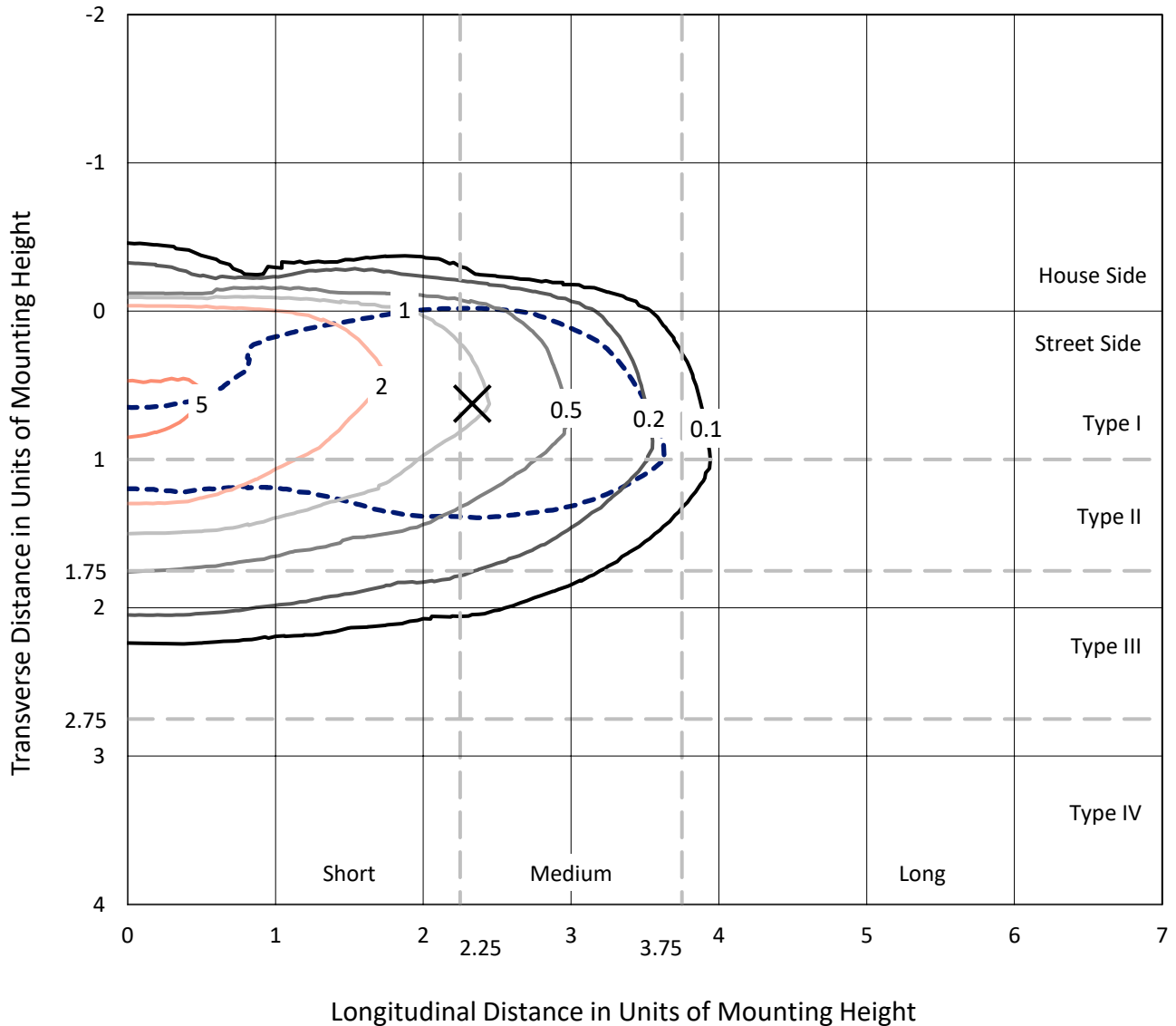
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

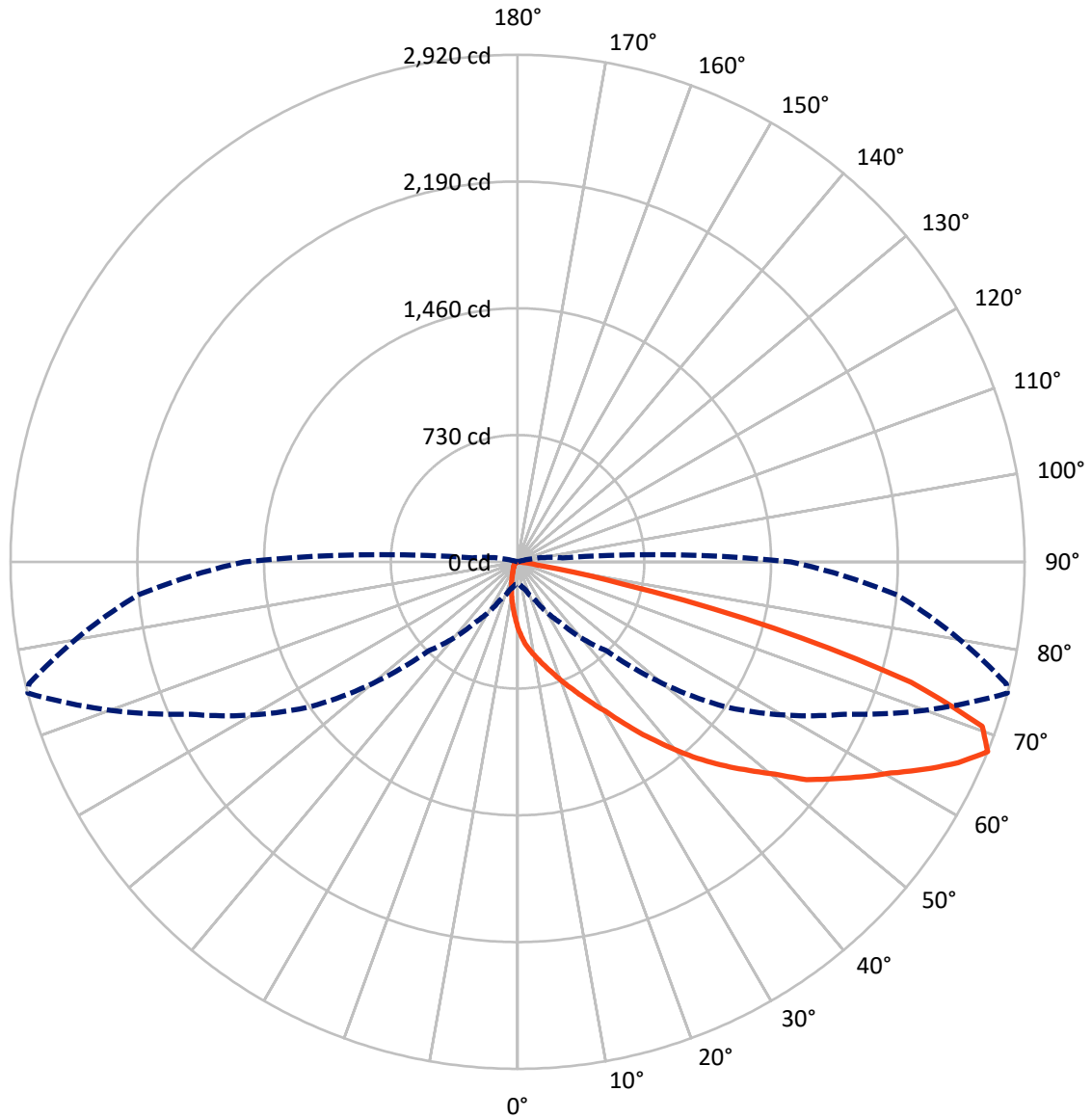
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6 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	154.9	0.0	154.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2917.1	0.0	2917.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	3072.0	0.0	3072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	1.1
10°-20°	111.1	3.6
20°-30°	223.4	7.3
30°-40°	422.5	13.8
40°-50°	632.1	20.6
50°-60°	729.8	23.8
60°-70°	646.9	21.1
70°-80°	261.5	8.5
80°-90°	10.4	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°	3072.0	100.0
0°-180°	3072.0	100.0

Coefficient of Utilization

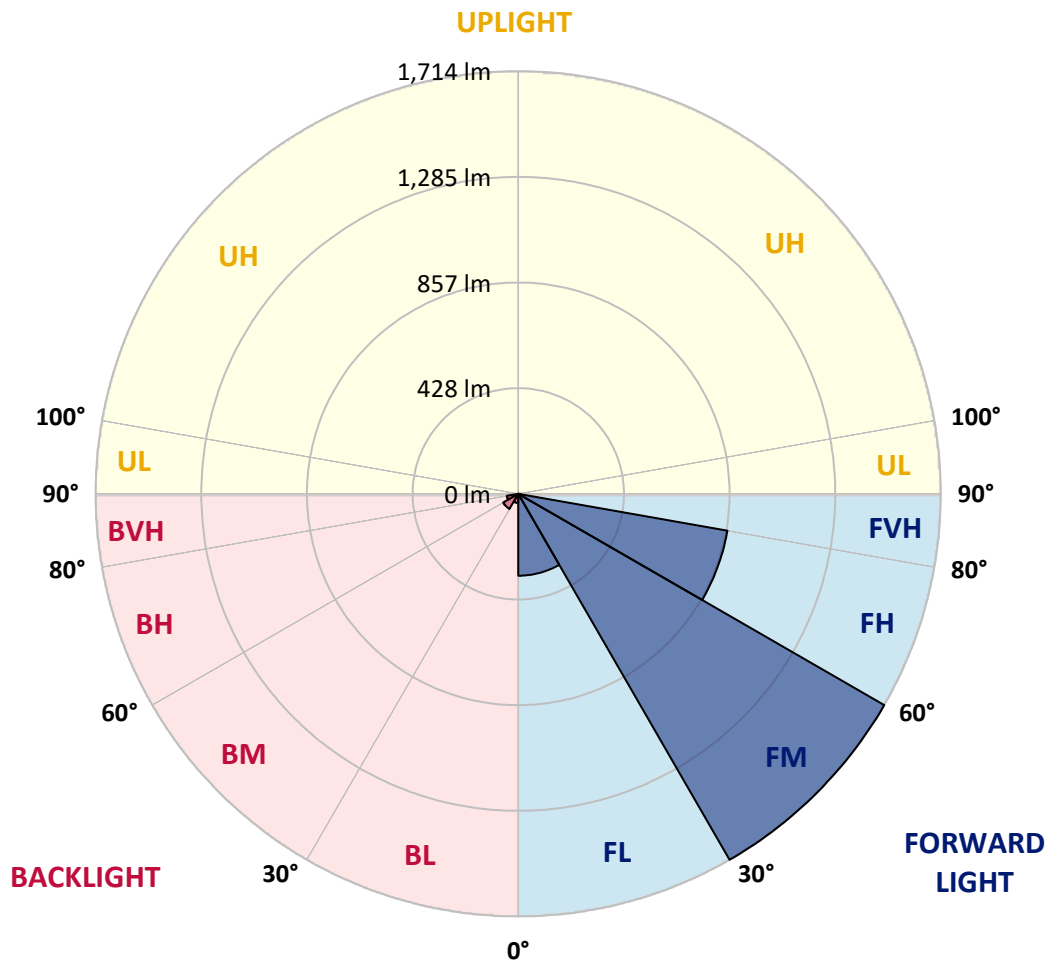


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.1	10.8			
FM (30°-60°)	1713.7	55.8			
FH (60°-80°)	861.4	28.0			G1/1800
FVH (80°-90°)	10.0	0.3			G0/10
BL (0°-30°)	36.8	1.2	B0/110		
BM (30°-60°)	70.6	2.3	B0/220		
BH (60°-80°)	47.0	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°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8
2.5°	531.2	533.0	529.3	521.0	513.6	496.1	482.3	457.4	430.7	430.7	398.4
5°	593.9	592.0	590.2	583.7	578.2	563.4	545.0	518.3	476.8	473.1	419.6
7.5°	624.3	622.5	618.8	616.0	616.0	605.9	588.3	560.7	514.6	510.9	439.0
10°	660.3	656.6	656.6	649.2	647.4	635.4	626.2	602.2	551.5	546.8	461.1
12.5°	702.7	699.0	699.9	693.5	690.7	677.8	664.9	641.8	591.1	586.5	486.9
15°	726.7	724.8	730.4	731.3	733.1	722.1	710.1	686.1	635.4	628.9	517.3
17.5°	740.5	740.5	747.0	758.9	772.8	766.3	757.1	737.7	680.6	676.9	549.6
20°	767.2	764.5	775.5	786.6	804.1	809.7	806.9	792.1	735.0	723.9	584.7
22.5°	811.5	807.8	818.0	831.8	853.0	854.8	856.7	849.3	790.3	779.2	621.5
25°	915.7	906.5	897.3	895.4	903.7	911.1	905.6	911.1	853.0	842.9	661.2
27.5°	1118.6	1102.9	1058.6	1009.8	975.7	982.1	964.6	974.7	924.9	912.0	698.1
30°	1313.2	1297.5	1261.5	1174.8	1096.5	1061.4	1035.6	1031.9	998.7	984.0	740.5
32.5°	1448.7	1438.6	1414.6	1356.5	1258.8	1169.3	1119.5	1102.0	1097.4	1074.3	794.9
35°	1540.9	1531.7	1515.1	1468.1	1396.2	1296.6	1210.8	1172.1	1207.1	1179.5	856.7
37.5°	1596.3	1589.8	1571.4	1539.1	1500.4	1434.9	1324.2	1262.4	1317.8	1292.0	936.0
40°	1636.8	1620.2	1607.3	1582.4	1569.5	1548.3	1453.3	1356.5	1437.7	1410.9	1014.4
42.5°	1640.5	1633.2	1623.0	1608.3	1610.1	1623.9	1590.7	1465.3	1558.5	1533.6	1097.4
45°	1639.6	1632.2	1624.9	1610.1	1619.3	1671.0	1701.4	1579.7	1676.5	1650.7	1185.0
47.5°	1612.9	1607.3	1609.2	1609.2	1621.2	1691.3	1787.2	1695.9	1794.5	1769.6	1291.0
50°	1518.8	1524.3	1561.2	1580.6	1601.8	1692.2	1847.1	1817.6	1921.8	1904.3	1393.4
52.5°	1220.9	1252.3	1401.7	1504.1	1565.8	1673.7	1885.8	1945.8	2083.2	2056.4	1509.6
55°	933.2	935.1	1078.9	1316.9	1494.8	1640.5	1908.0	2032.5	2205.8	2191.1	1611.9
57.5°	757.1	756.2	827.2	1041.1	1310.4	1588.0	1913.5	2096.1	2335.8	2308.2	1730.0
60°	618.8	615.1	657.5	789.4	1070.6	1464.4	1893.2	2147.7	2469.6	2459.4	1853.6
62.5°	447.3	450.9	507.2	609.6	825.3	1236.6	1849.9	2163.4	2630.9	2620.8	1991.9
65°	257.3	268.4	330.1	439.0	632.6	967.4	1726.3	2151.4	2788.6	2787.7	2120.1
67.5°	129.1	130.0	163.2	245.3	425.1	723.9	1453.3	2075.8	2919.6	2899.3	2193.8
70°	83.0	84.8	95.9	126.3	235.2	501.7	1110.3	1861.9	2837.5	2830.1	2085.9
72.5°	63.6	65.5	74.7	83.0	122.6	284.9	751.6	1446.9	2369.0	2348.8	1626.7
75°	49.8	50.7	59.9	67.3	82.1	133.7	377.2	901.9	1526.2	1473.6	925.9
77.5°	39.7	40.6	45.2	53.5	62.7	74.7	111.6	405.8	620.6	554.2	300.6
80°	25.8	26.7	34.1	41.5	53.5	48.9	43.3	117.1	132.8	119.9	53.5
82.5°	14.8	15.7	23.1	33.2	40.6	27.7	24.9	34.1	31.4	30.4	16.6
85°	4.6	4.6	15.7	23.1	18.4	8.3	15.7	12.0	10.1	9.2	5.5
87.5°	0.9	0.9	7.4	8.3	2.8	0.9	1.8	2.8	3.7	4.6	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°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8
2.5°	382.7	364.3	330.1	300.6	272.0	247.1	229.6	213.9	202.9	200.1	195.5
5°	385.5	349.5	284.0	228.7	180.7	142.0	119.9	105.1	97.7	93.1	93.1
7.5°	388.2	334.7	240.7	166.9	114.3	86.7	72.9	66.4	63.6	62.7	61.8
10°	393.8	323.7	203.8	119.9	78.4	65.5	59.9	57.2	55.3	54.4	54.4
12.5°	403.0	314.5	169.7	88.5	64.6	58.1	54.4	50.7	48.9	48.0	48.0
15°	415.0	308.0	140.2	71.0	59.0	52.6	48.0	44.3	41.5	40.6	40.6
17.5°	431.6	303.4	115.3	62.7	54.4	47.0	41.5	37.8	35.0	34.1	34.1
20°	448.2	303.4	95.0	58.1	49.8	41.5	36.0	31.4	28.6	27.7	27.7
22.5°	470.3	302.5	79.3	53.5	44.3	36.0	30.4	24.9	23.1	22.1	22.1
25°	488.7	302.5	68.2	48.9	38.7	31.4	24.9	20.3	18.4	17.5	17.5
27.5°	510.9	299.7	58.1	43.3	33.2	25.8	20.3	16.6	14.8	13.8	13.8
30°	530.2	296.0	51.6	38.7	28.6	21.2	16.6	12.9	12.0	12.0	12.0
32.5°	562.5	293.2	46.1	33.2	24.0	17.5	12.9	10.1	9.2	9.2	9.2
35°	601.3	293.2	42.4	28.6	20.3	14.8	10.1	8.3	7.4	7.4	7.4
37.5°	652.0	296.0	37.8	24.9	16.6	12.0	8.3	6.5	5.5	5.5	5.5
40°	705.5	302.5	34.1	22.1	14.8	9.2	6.5	4.6	3.7	4.6	4.6
42.5°	769.1	308.9	30.4	19.4	12.0	7.4	4.6	2.8	1.8	2.8	2.8
45°	831.8	315.4	28.6	16.6	10.1	5.5	2.8	1.8	0.9	1.8	1.8
47.5°	909.3	331.1	26.7	14.8	8.3	4.6	1.8	0.9	0.0	0.9	0.9
50°	998.7	348.6	24.0	12.0	6.5	3.7	1.8	0.0	0.0	0.0	0.0
52.5°	1084.5	363.3	21.2	10.1	5.5	2.8	0.9	0.0	0.0	0.0	0.0
55°	1170.2	372.6	18.4	8.3	4.6	2.8	0.9	0.0	0.0	0.0	0.0
57.5°	1262.4	378.1	16.6	7.4	3.7	1.8	0.9	0.0	0.0	0.0	0.0
60°	1364.8	378.1	13.8	6.5	2.8	1.8	0.9	0.0	0.0	0.0	0.0
62.5°	1478.2	367.0	12.9	5.5	2.8	1.8	0.9	0.0	0.0	0.0	0.0
65°	1570.5	327.4	11.1	4.6	2.8	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	1574.1	259.1	10.1	3.7	2.8	1.8	0.9	0.0	0.0	0.0	0.0
70°	1403.5	177.1	8.3	2.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	1050.3	95.0	7.4	2.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
75°	566.2	36.9	4.6	2.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
77.5°	165.1	18.4	2.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
80°	30.4	9.2	1.8	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	3.7	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.7	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)