

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: P594992

Luminaire Tested: **IST-PA1A-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594992
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-827-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 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: 2449 lumens
Efficiency: N/A
Efficacy: 85.0 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

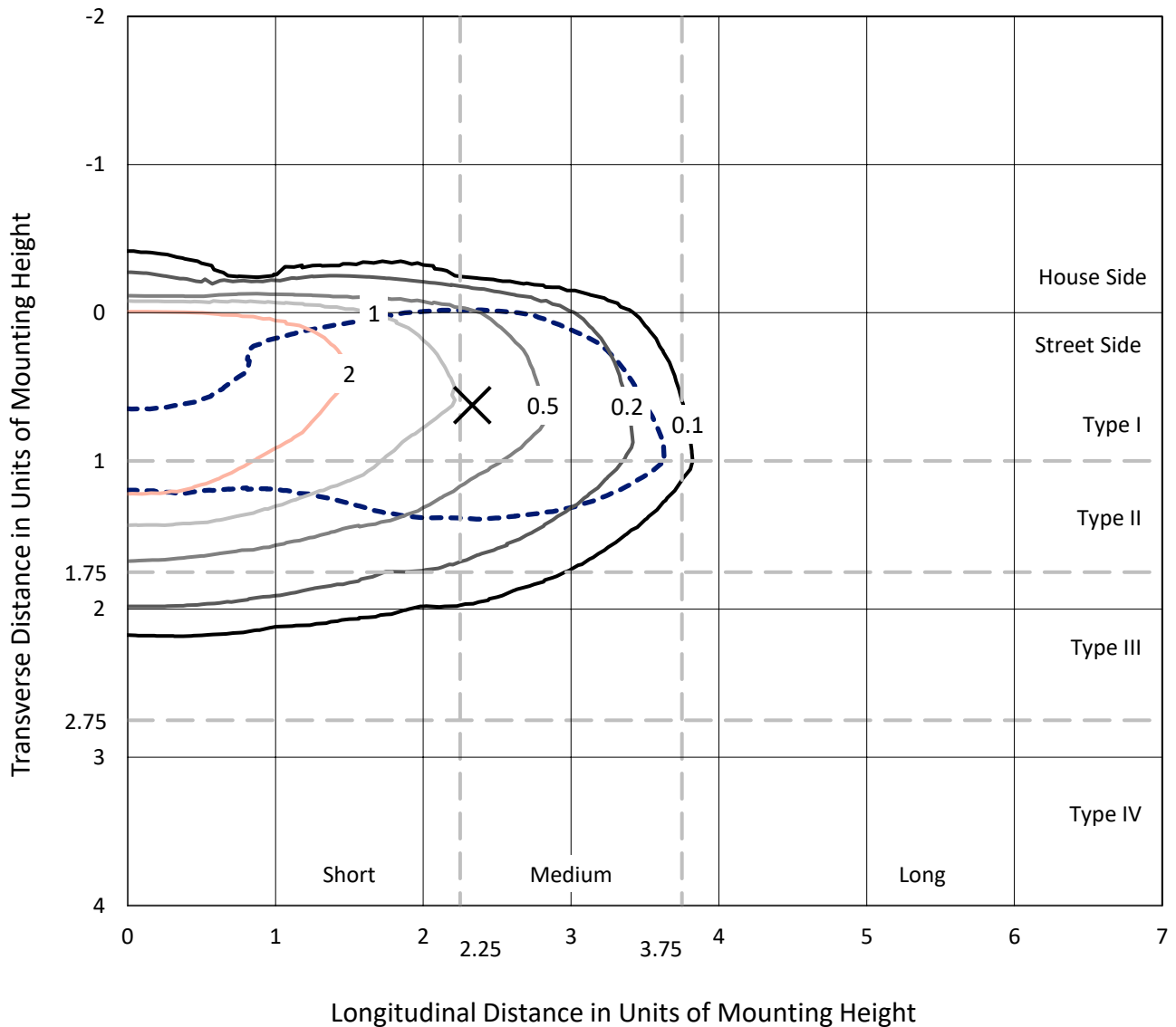




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Iso-Footcandle Lines of Horizontal Illumination

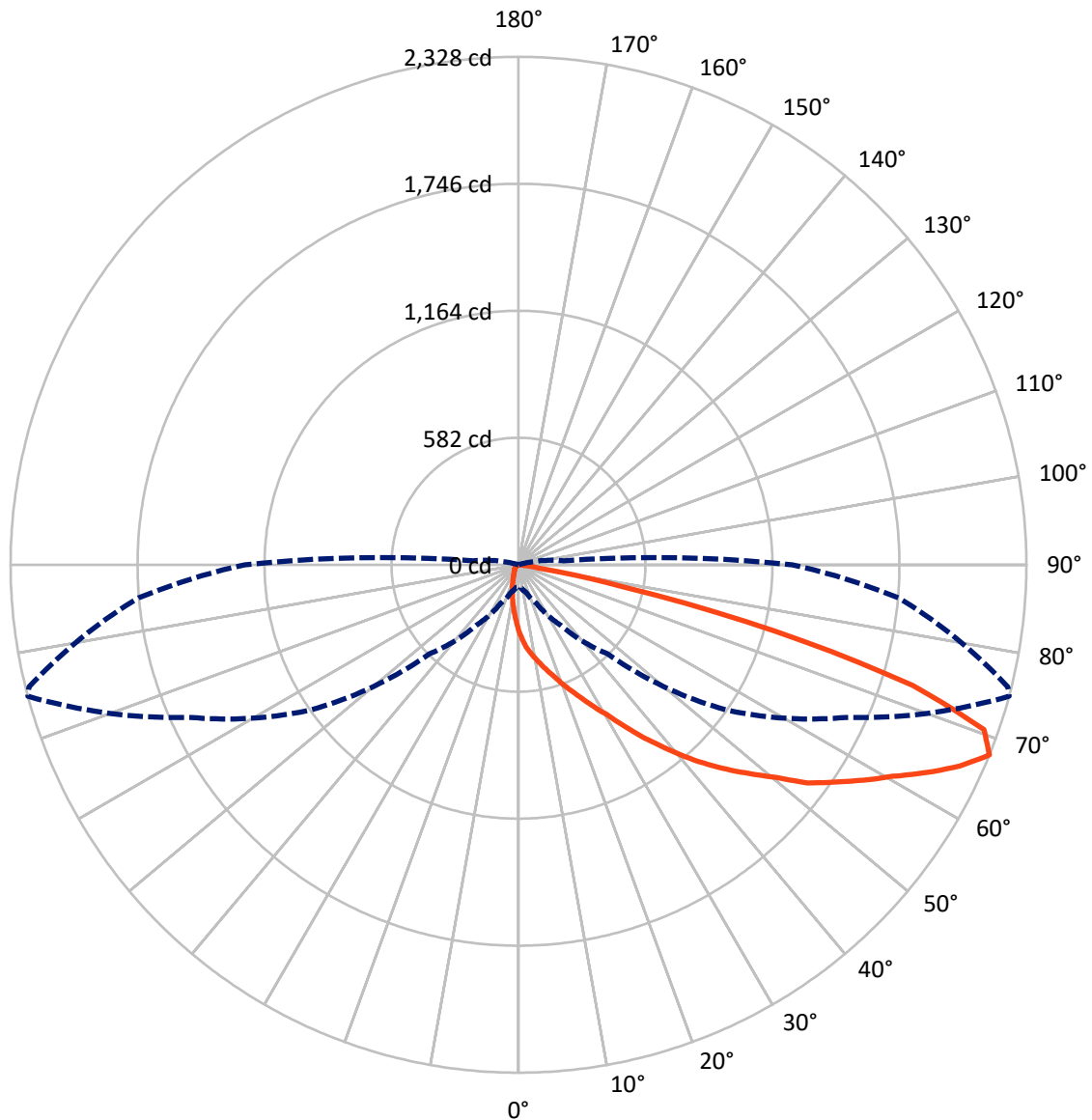
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 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	123.5	0.0	123.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2325.5	0.0	2325.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	2449.0	0.0	2449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.1
10°-20°	88.6	3.6
20°-30°	178.1	7.3
30°-40°	336.8	13.8
40°-50°	503.9	20.6
50°-60°	581.8	23.8
60°-70°	515.7	21.1
70°-80°	208.4	8.5
80°-90°	8.3	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°	2449.0	100.0
0°-180°	2449.0	100.0

Coefficient of Utilization

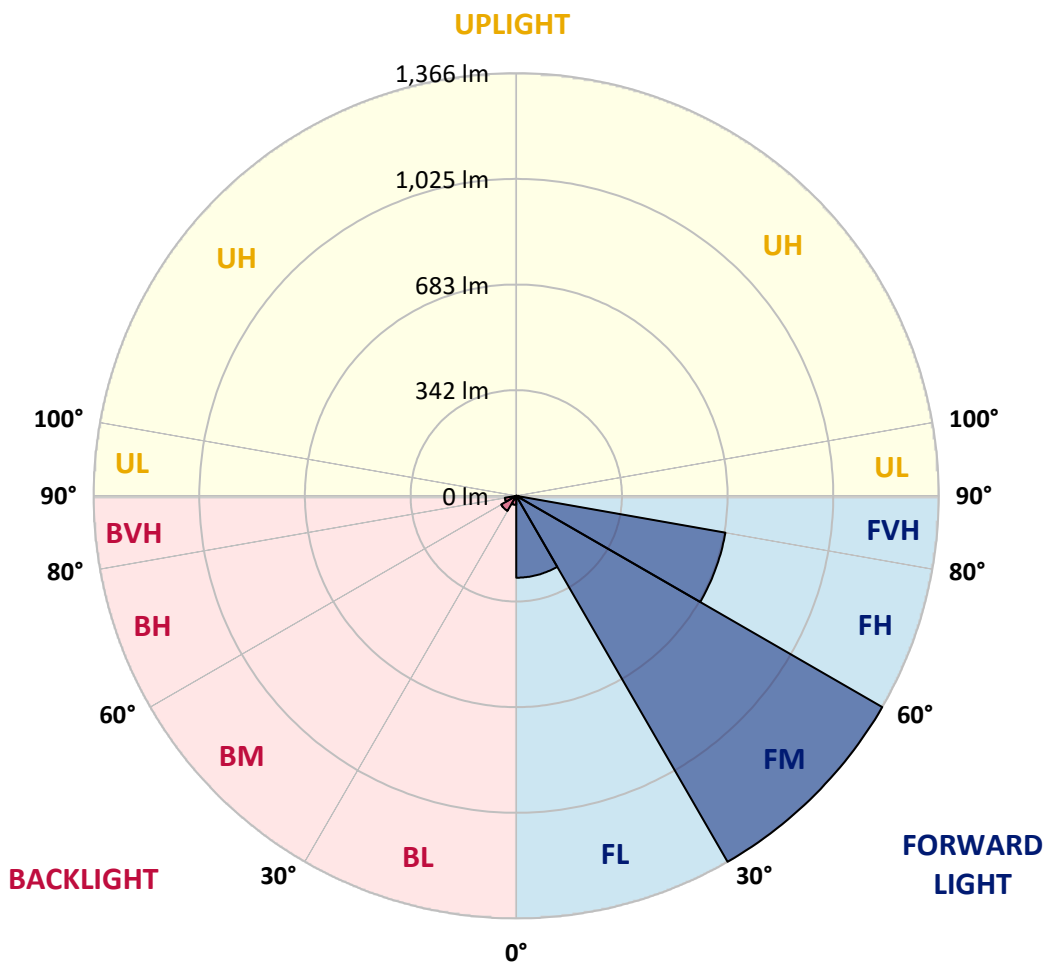


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.8	10.8			
FM (30°-60°)	1366.1	55.8			
FH (60°-80°)	686.7	28.0			G1/1800
FVH (80°-90°)	8.0	0.3			G0/10
BL (0°-30°)	29.3	1.2	B0/110		
BM (30°-60°)	56.3	2.3	B0/220		
BH (60°-80°)	37.4	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°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	423.4	424.9	422.0	415.4	409.5	395.5	384.5	364.6	343.3	343.3	317.6
5°	473.4	472.0	470.5	465.4	460.9	449.2	434.5	413.2	380.1	377.1	334.5
7.5°	497.7	496.2	493.3	491.1	491.1	483.0	469.0	447.0	410.2	407.3	349.9
10°	526.4	523.4	523.4	517.5	516.1	506.5	499.2	480.1	439.6	435.9	367.6
12.5°	560.2	557.2	558.0	552.8	550.6	540.3	530.0	511.7	471.2	467.6	388.2
15°	579.3	577.8	582.2	583.0	584.4	575.6	566.1	547.0	506.5	501.4	412.4
17.5°	590.3	590.3	595.5	605.0	616.1	610.9	603.6	588.1	542.5	539.6	438.2
20°	611.6	609.4	618.3	627.1	641.1	645.5	643.3	631.5	585.9	577.1	466.1
22.5°	646.9	644.0	652.1	663.1	680.0	681.5	683.0	677.1	630.0	621.2	495.5
25°	730.0	722.7	715.3	713.8	720.4	726.3	721.9	726.3	680.0	671.9	527.1
27.5°	891.7	879.2	844.0	805.0	777.8	782.9	769.0	777.1	737.4	727.1	556.5
30°	1046.9	1034.4	1005.7	936.6	874.1	846.2	825.6	822.6	796.2	784.4	590.3
32.5°	1154.9	1146.8	1127.7	1081.4	1003.5	932.2	892.5	878.5	874.8	856.5	633.7
35°	1228.4	1221.1	1207.9	1170.4	1113.0	1033.6	965.3	934.4	962.3	940.3	683.0
37.5°	1272.5	1267.4	1252.7	1227.0	1196.1	1143.9	1055.7	1006.4	1050.5	1029.9	746.2
40°	1304.9	1291.7	1281.4	1261.5	1251.2	1234.3	1158.6	1081.4	1146.1	1124.8	808.7
42.5°	1307.8	1302.0	1293.9	1282.1	1283.6	1294.6	1268.1	1168.2	1242.4	1222.6	874.8
45°	1307.1	1301.2	1295.3	1283.6	1290.9	1332.1	1356.4	1259.3	1336.5	1315.9	944.7
47.5°	1285.8	1281.4	1282.8	1282.8	1292.4	1348.3	1424.7	1351.9	1430.6	1410.8	1029.2
50°	1210.8	1215.2	1244.6	1260.1	1277.0	1349.0	1472.5	1449.0	1532.1	1518.1	1110.8
52.5°	973.3	998.3	1117.4	1199.0	1248.3	1334.3	1503.4	1551.2	1660.7	1639.4	1203.4
55°	744.0	745.4	860.1	1049.8	1191.7	1307.8	1521.0	1620.3	1758.5	1746.7	1285.0
57.5°	603.6	602.8	659.4	830.0	1044.7	1265.9	1525.4	1671.0	1862.1	1840.1	1379.1
60°	493.3	490.3	524.2	629.3	853.5	1167.4	1509.3	1712.2	1968.7	1960.7	1477.7
62.5°	356.5	359.5	404.3	485.9	658.0	985.8	1474.7	1724.7	2097.4	2089.3	1587.9
65°	205.1	213.9	263.2	349.9	504.3	771.2	1376.2	1715.1	2223.1	2222.4	1690.1
67.5°	102.9	103.7	130.1	195.6	338.9	577.1	1158.6	1654.8	2327.5	2311.3	1748.9
70°	66.2	67.6	76.5	100.7	187.5	399.9	885.1	1484.3	2262.1	2256.2	1662.9
72.5°	50.7	52.2	59.5	66.2	97.8	227.2	599.1	1153.5	1888.6	1872.4	1296.8
75°	39.7	40.4	47.8	53.7	65.4	106.6	300.7	719.0	1216.7	1174.8	738.1
77.5°	31.6	32.3	36.0	42.6	50.0	59.5	89.0	323.5	494.8	441.8	239.7
80°	20.6	21.3	27.2	33.1	42.6	39.0	34.6	93.4	105.9	95.6	42.6
82.5°	11.8	12.5	18.4	26.5	32.3	22.1	19.8	27.2	25.0	24.3	13.2
85°	3.7	3.7	12.5	18.4	14.7	6.6	12.5	9.6	8.1	7.4	4.4
87.5°	0.7	0.7	5.9	6.6	2.2	0.7	1.5	2.2	2.9	3.7	2.2
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°	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4	304.4
2.5°	305.1	290.4	263.2	239.7	216.9	197.0	183.1	170.6	161.7	159.5	155.9
5°	307.3	278.6	226.4	182.3	144.1	113.2	95.6	83.8	77.9	74.3	74.3
7.5°	309.5	266.9	191.9	133.1	91.2	69.1	58.1	52.9	50.7	50.0	49.3
10°	313.9	258.0	162.5	95.6	62.5	52.2	47.8	45.6	44.1	43.4	43.4
12.5°	321.3	250.7	135.3	70.6	51.5	46.3	43.4	40.4	39.0	38.2	38.2
15°	330.8	245.5	111.7	56.6	47.0	41.9	38.2	35.3	33.1	32.3	32.3
17.5°	344.1	241.9	91.9	50.0	43.4	37.5	33.1	30.1	27.9	27.2	27.2
20°	357.3	241.9	75.7	46.3	39.7	33.1	28.7	25.0	22.8	22.1	22.1
22.5°	374.9	241.1	63.2	42.6	35.3	28.7	24.3	19.8	18.4	17.6	17.6
25°	389.6	241.1	54.4	39.0	30.9	25.0	19.8	16.2	14.7	14.0	14.0
27.5°	407.3	238.9	46.3	34.6	26.5	20.6	16.2	13.2	11.8	11.0	11.0
30°	422.7	236.0	41.2	30.9	22.8	16.9	13.2	10.3	9.6	9.6	9.6
32.5°	448.4	233.8	36.8	26.5	19.1	14.0	10.3	8.1	7.4	7.4	7.4
35°	479.3	233.8	33.8	22.8	16.2	11.8	8.1	6.6	5.9	5.9	5.9
37.5°	519.8	236.0	30.1	19.8	13.2	9.6	6.6	5.1	4.4	4.4	4.4
40°	562.4	241.1	27.2	17.6	11.8	7.4	5.1	3.7	2.9	3.7	3.7
42.5°	613.1	246.3	24.3	15.4	9.6	5.9	3.7	2.2	1.5	2.2	2.2
45°	663.1	251.4	22.8	13.2	8.1	4.4	2.2	1.5	0.7	1.5	1.5
47.5°	724.9	263.9	21.3	11.8	6.6	3.7	1.5	0.7	0.0	0.7	0.7
50°	796.2	277.9	19.1	9.6	5.1	2.9	1.5	0.0	0.0	0.0	0.0
52.5°	864.5	289.6	16.9	8.1	4.4	2.2	0.7	0.0	0.0	0.0	0.0
55°	932.9	297.0	14.7	6.6	3.7	2.2	0.7	0.0	0.0	0.0	0.0
57.5°	1006.4	301.4	13.2	5.9	2.9	1.5	0.7	0.0	0.0	0.0	0.0
60°	1088.0	301.4	11.0	5.1	2.2	1.5	0.7	0.0	0.0	0.0	0.0
62.5°	1178.4	292.6	10.3	4.4	2.2	1.5	0.7	0.0	0.0	0.0	0.0
65°	1252.0	261.0	8.8	3.7	2.2	1.5	0.7	0.0	0.0	0.0	0.0
67.5°	1254.9	206.6	8.1	2.9	2.2	1.5	0.7	0.0	0.0	0.0	0.0
70°	1118.9	141.1	6.6	2.2	1.5	1.5	0.7	0.0	0.0	0.0	0.0
72.5°	837.3	75.7	5.9	2.2	1.5	0.7	0.7	0.0	0.0	0.0	0.0
75°	451.4	29.4	3.7	2.2	1.5	0.7	0.7	0.0	0.0	0.0	0.0
77.5°	131.6	14.7	2.2	1.5	1.5	0.7	0.7	0.0	0.0	0.0	0.0
80°	24.3	7.4	1.5	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	6.6	2.9	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	0.7	0.7	0.7	0.7	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)