

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: P595329

Luminaire Tested: **IST-PA1E-827-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1E-827-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5489 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

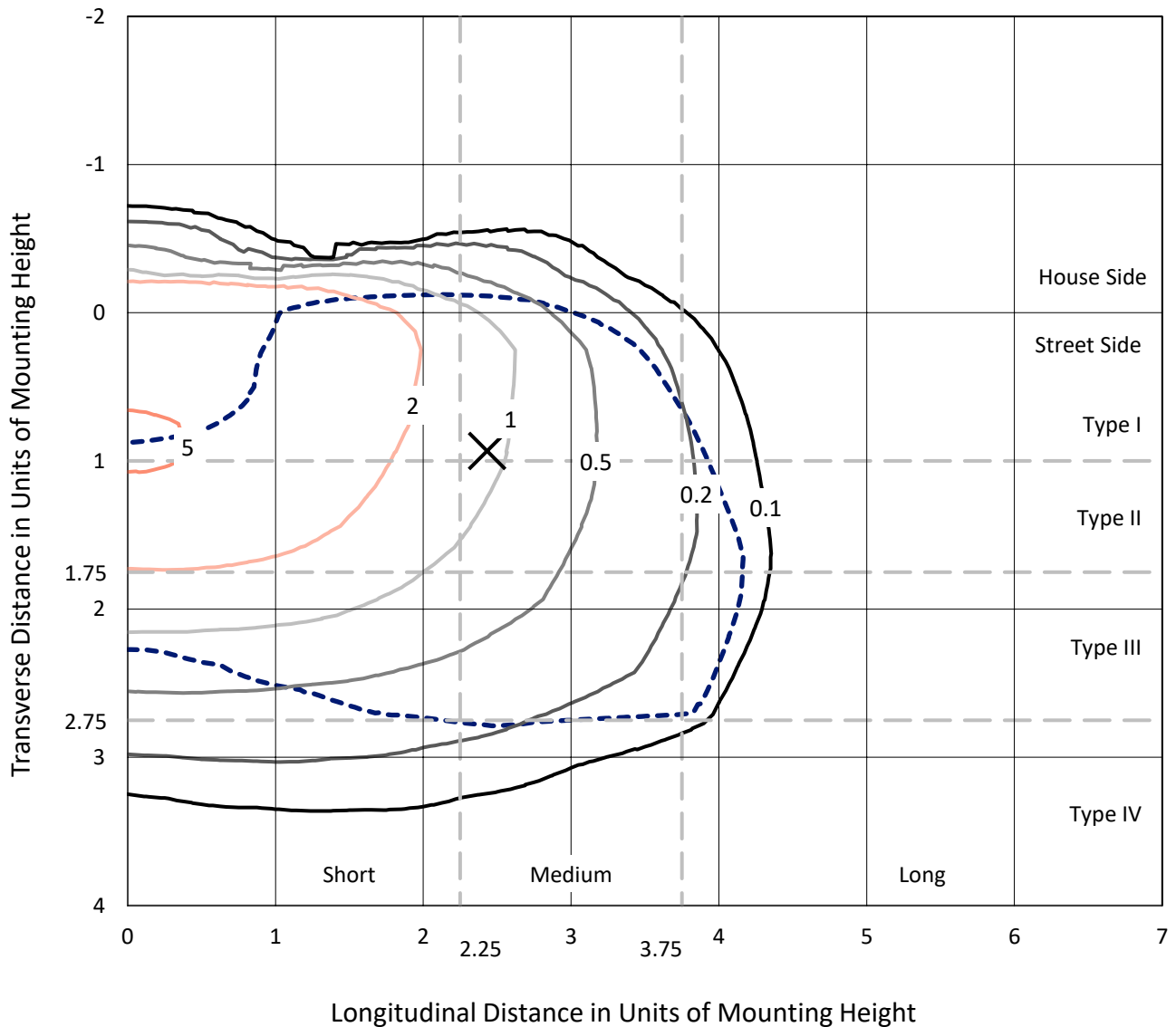
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

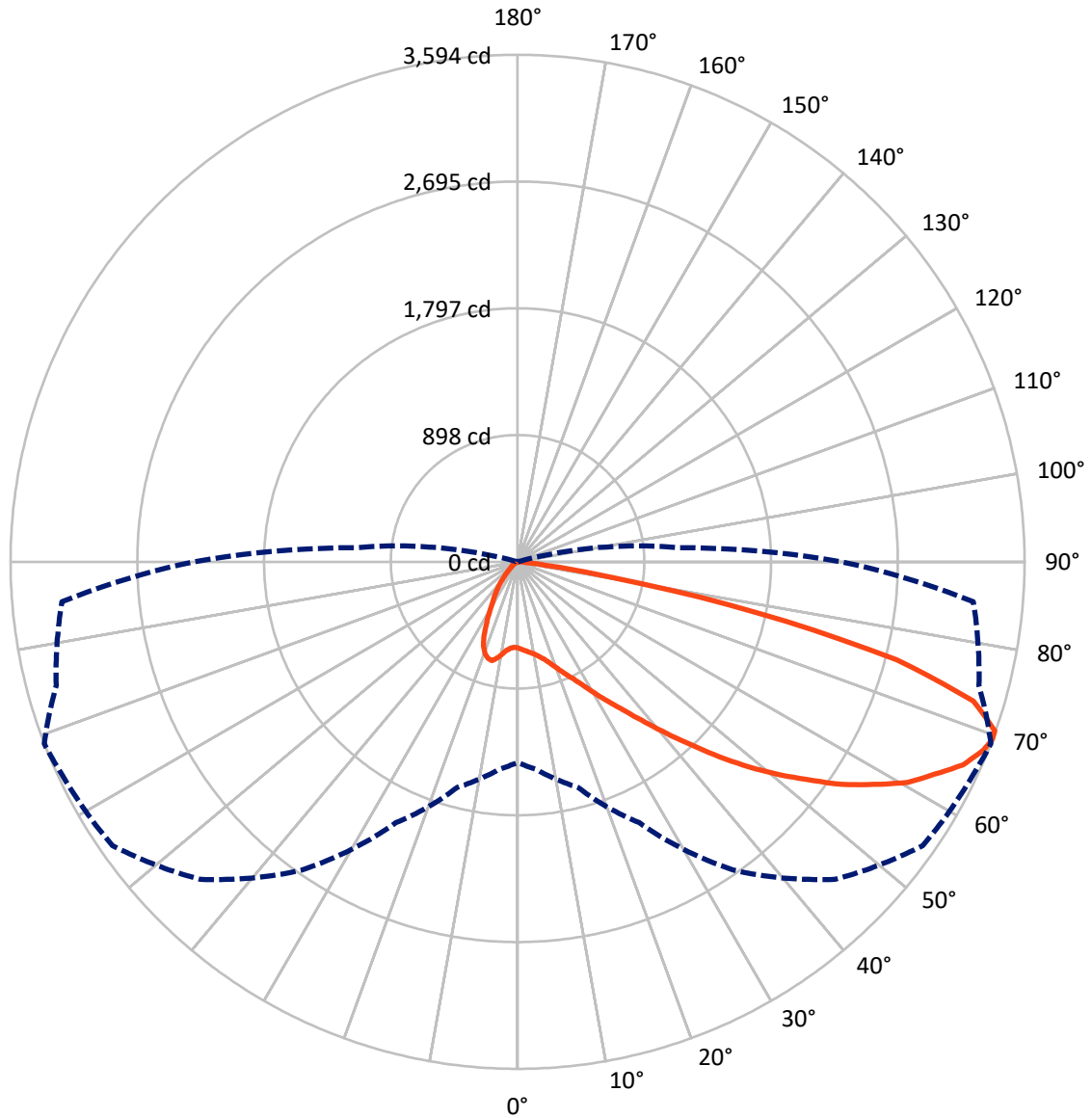
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	534.9	0.0	534.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4954.1	0.0	4954.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	5489.0	0.0	5489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.1
10°-20°	154.0	2.8
20°-30°	256.5	4.7
30°-40°	461.7	8.4
40°-50°	837.2	15.3
50°-60°	1308.3	23.8
60°-70°	1513.7	27.6
70°-80°	846.5	15.4
80°-90°	52.8	1.0
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°	5489.0	100.0
0°-180°	5489.0	100.0

Coefficient of Utilization

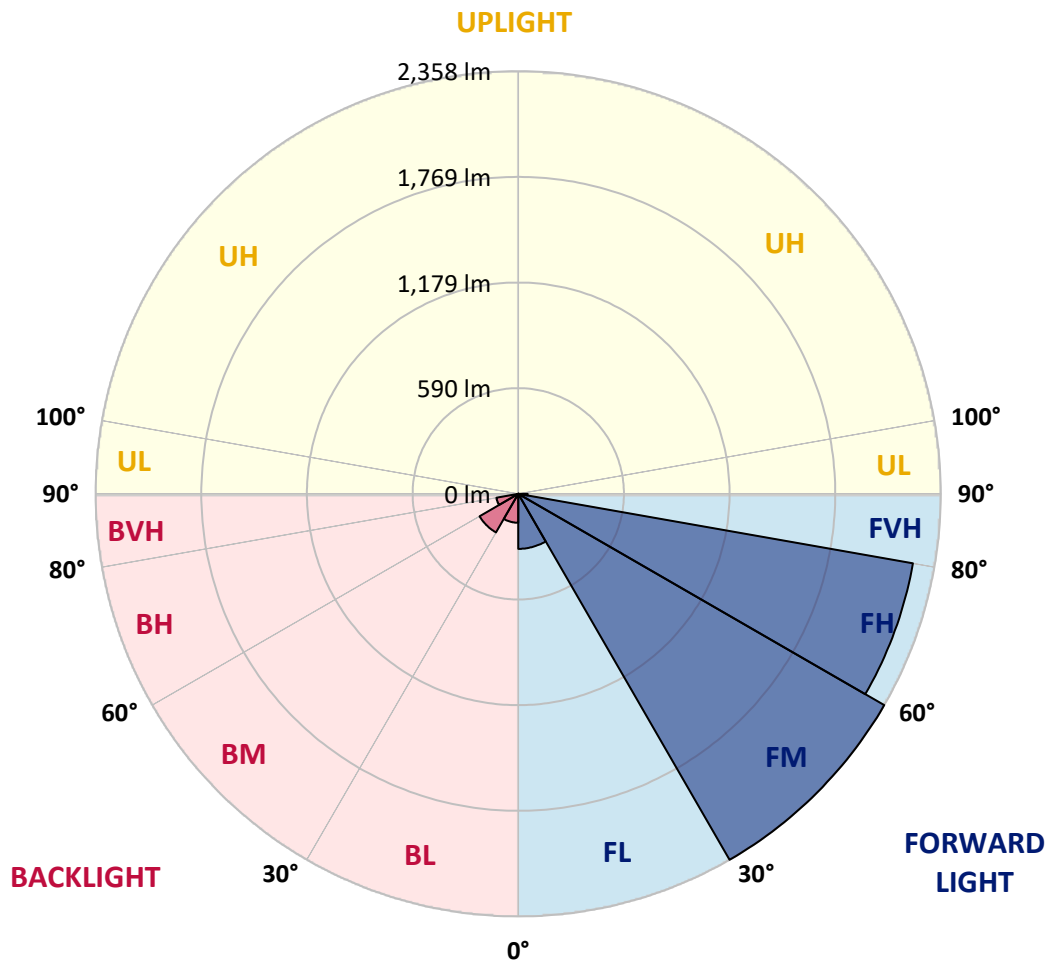


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.1	5.6			
FM (30°-60°)	2358.3	43.0			
FH (60°-80°)	2236.4	40.7			G2/5000
FVH (80°-90°)	52.5	1.0			G1/100
BL (0°-30°)	161.6	2.9	B1/500		
BM (30°-60°)	249.0	4.5	B1/1000		
BH (60°-80°)	123.8	2.3	B1/500		G1/500
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: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6
2.5°	632.5	632.5	632.5	628.8	630.7	628.8	627.0	621.5	623.4	621.5	616.0
5°	610.6	612.4	617.9	621.5	630.7	634.3	636.2	636.2	634.3	630.7	627.0
7.5°	568.5	568.5	574.0	585.0	603.3	623.4	639.8	649.0	650.8	650.8	645.3
10°	557.5	557.5	564.9	572.2	590.5	614.2	639.8	661.7	665.4	669.1	667.2
12.5°	552.1	553.9	561.2	574.0	597.8	619.7	647.1	678.2	689.2	698.3	700.1
15°	559.4	559.4	566.7	579.5	606.9	638.0	672.7	707.4	718.4	731.2	740.4
17.5°	570.3	574.0	577.7	590.5	616.0	654.4	700.1	745.8	758.6	775.1	782.4
20°	588.6	588.6	592.3	603.3	630.7	676.4	740.4	795.2	806.2	817.1	826.3
22.5°	610.6	612.4	612.4	621.5	652.6	702.0	775.1	842.7	861.0	866.5	870.1
25°	676.4	672.7	659.9	654.4	678.2	731.2	817.1	899.4	919.5	925.0	917.7
27.5°	813.5	798.9	764.1	727.6	723.9	776.9	873.8	970.7	992.6	994.4	968.9
30°	985.3	987.1	930.5	851.9	798.9	826.3	936.0	1060.3	1082.2	1073.1	1032.8
32.5°	1197.4	1188.2	1146.2	1032.8	926.8	903.0	1003.6	1153.5	1179.1	1164.5	1111.4
35°	1378.3	1383.8	1332.6	1232.1	1098.6	1021.9	1085.9	1257.7	1288.8	1263.2	1197.4
37.5°	1530.1	1537.4	1506.3	1424.0	1305.2	1184.6	1193.7	1380.2	1422.2	1396.6	1314.4
40°	1698.2	1703.7	1690.9	1601.4	1495.3	1378.3	1338.1	1520.9	1577.6	1542.9	1456.9
42.5°	1882.9	1903.0	1881.0	1809.8	1700.1	1599.5	1539.2	1692.8	1749.4	1727.5	1612.3
45°	2135.1	2137.0	2111.4	2040.1	1926.7	1844.5	1771.4	1875.6	1948.7	1921.3	1786.0
47.5°	2321.6	2334.4	2319.8	2270.4	2179.0	2124.2	2023.6	2076.6	2153.4	2118.7	1965.1
50°	2464.2	2498.9	2486.1	2500.7	2455.0	2431.3	2277.7	2285.0	2360.0	2330.7	2147.9
52.5°	2542.8	2586.7	2590.3	2665.3	2703.7	2762.2	2524.5	2513.5	2561.1	2535.5	2334.4
55°	2531.8	2542.8	2634.2	2771.3	2921.2	3054.6	2765.8	2720.1	2785.9	2714.6	2531.8
57.5°	2425.8	2453.2	2614.1	2784.1	3049.2	3242.9	2974.2	2923.0	2977.9	2882.8	2734.7
60°	2274.1	2314.3	2520.9	2764.0	3124.1	3356.3	3177.1	3125.9	3175.3	3060.1	2965.1
62.5°	2137.0	2155.3	2345.4	2679.9	3080.2	3350.8	3334.3	3286.8	3316.1	3195.4	3162.5
65°	1941.4	1948.7	2137.0	2528.2	2983.3	3314.2	3420.2	3438.5	3469.6	3308.7	3303.3
67.5°	1639.7	1656.2	1842.7	2263.1	2822.5	3242.9	3487.9	3524.4	3561.0	3369.1	3328.8
69°	1422.2	1475.2	1654.4	2040.1	2667.1	3182.6	3506.2	3564.7	3593.9	3385.5	3242.9
70°	1244.9	1290.6	1497.2	1868.2	2530.0	3115.0	3519.0	3559.2	3588.4	3350.8	3102.2
72.5°	625.2	683.7	967.0	1363.7	2010.8	2806.0	3453.2	3409.3	3378.2	3082.1	2509.9
75°	241.3	250.4	415.0	776.9	1257.7	2060.2	2948.6	2866.4	2775.0	2338.1	1488.0
77.5°	133.4	131.6	181.0	343.7	535.6	1007.2	1994.4	1862.8	1736.6	1255.9	603.3
80°	56.7	60.3	78.6	164.5	281.5	349.2	968.9	861.0	685.5	398.5	144.4
82.5°	34.7	36.6	54.8	100.5	195.6	133.4	314.4	268.7	197.4	107.9	34.7
85°	11.0	12.8	38.4	67.6	95.1	54.8	71.3	62.2	54.8	45.7	11.0
87.5°	1.8	1.8	14.6	36.6	25.6	9.1	7.3	12.8	20.1	21.9	3.7
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°	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6
2.5°	614.2	610.6	606.9	605.1	605.1	601.4	599.6	597.8	597.8	595.9	595.9
5°	621.5	617.9	614.2	612.4	608.7	606.9	606.9	606.9	605.1	606.9	608.7
7.5°	639.8	634.3	632.5	630.7	630.7	625.2	616.0	592.3	568.5	561.2	553.9
10°	665.4	663.6	663.6	663.6	650.8	603.3	537.4	478.9	447.9	422.3	422.3
12.5°	702.0	702.0	700.1	694.7	628.8	513.7	411.3	323.6	272.4	243.1	246.8
15°	742.2	740.4	744.0	709.3	553.9	396.7	248.6	175.5	148.1	144.4	144.4
17.5°	784.2	787.9	784.2	670.9	455.2	245.0	148.1	133.4	129.8	129.8	129.8
20°	828.1	824.4	819.0	605.1	330.9	153.6	128.0	124.3	120.7	118.8	118.8
22.5°	872.0	868.3	831.8	521.0	206.6	126.1	120.7	113.3	107.9	106.0	106.0
25°	914.0	914.0	808.0	413.1	140.8	118.8	109.7	102.4	96.9	91.4	91.4
27.5°	967.0	970.7	769.6	288.8	118.8	109.7	98.7	87.7	80.4	76.8	76.8
30°	1027.4	1032.8	707.4	188.3	107.9	96.9	85.9	73.1	62.2	58.5	56.7
32.5°	1098.6	1104.1	636.2	124.3	96.9	84.1	71.3	54.8	43.9	42.0	40.2
35°	1190.0	1177.3	550.2	98.7	84.1	71.3	54.8	38.4	31.1	29.2	29.2
37.5°	1303.4	1276.0	451.5	85.9	71.3	56.7	40.2	25.6	20.1	20.1	18.3
40°	1433.2	1356.4	349.2	76.8	60.3	43.9	25.6	16.5	12.8	12.8	12.8
42.5°	1575.8	1424.0	248.6	67.6	49.4	31.1	16.5	9.1	7.3	7.3	7.3
45°	1740.3	1486.2	170.0	58.5	42.0	21.9	9.1	3.7	3.7	3.7	3.7
47.5°	1904.8	1526.4	113.3	51.2	31.1	12.8	5.5	1.8	1.8	1.8	1.8
50°	2071.2	1557.5	87.7	43.9	21.9	7.3	1.8	0.0	0.0	0.0	0.0
52.5°	2219.2	1579.4	71.3	36.6	14.6	5.5	1.8	0.0	0.0	0.0	0.0
55°	2347.2	1581.2	62.2	29.2	11.0	3.7	0.0	0.0	0.0	0.0	0.0
57.5°	2477.0	1566.6	53.0	21.9	7.3	1.8	0.0	0.0	0.0	0.0	0.0
60°	2555.6	1528.2	42.0	16.5	5.5	1.8	0.0	0.0	0.0	0.0	0.0
62.5°	2603.1	1464.3	32.9	11.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0
65°	2575.7	1383.8	23.8	7.3	3.7	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	2447.7	1259.5	16.5	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
69°	2296.0	1146.2	14.6	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
70°	2162.6	1058.4	12.8	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	1610.5	681.9	11.0	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0
75°	904.9	228.5	7.3	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	340.0	58.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	74.9	14.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	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)