

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: P595415

Luminaire Tested: **IST-PA1F-830-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595415
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-PA1F-830-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 7225 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

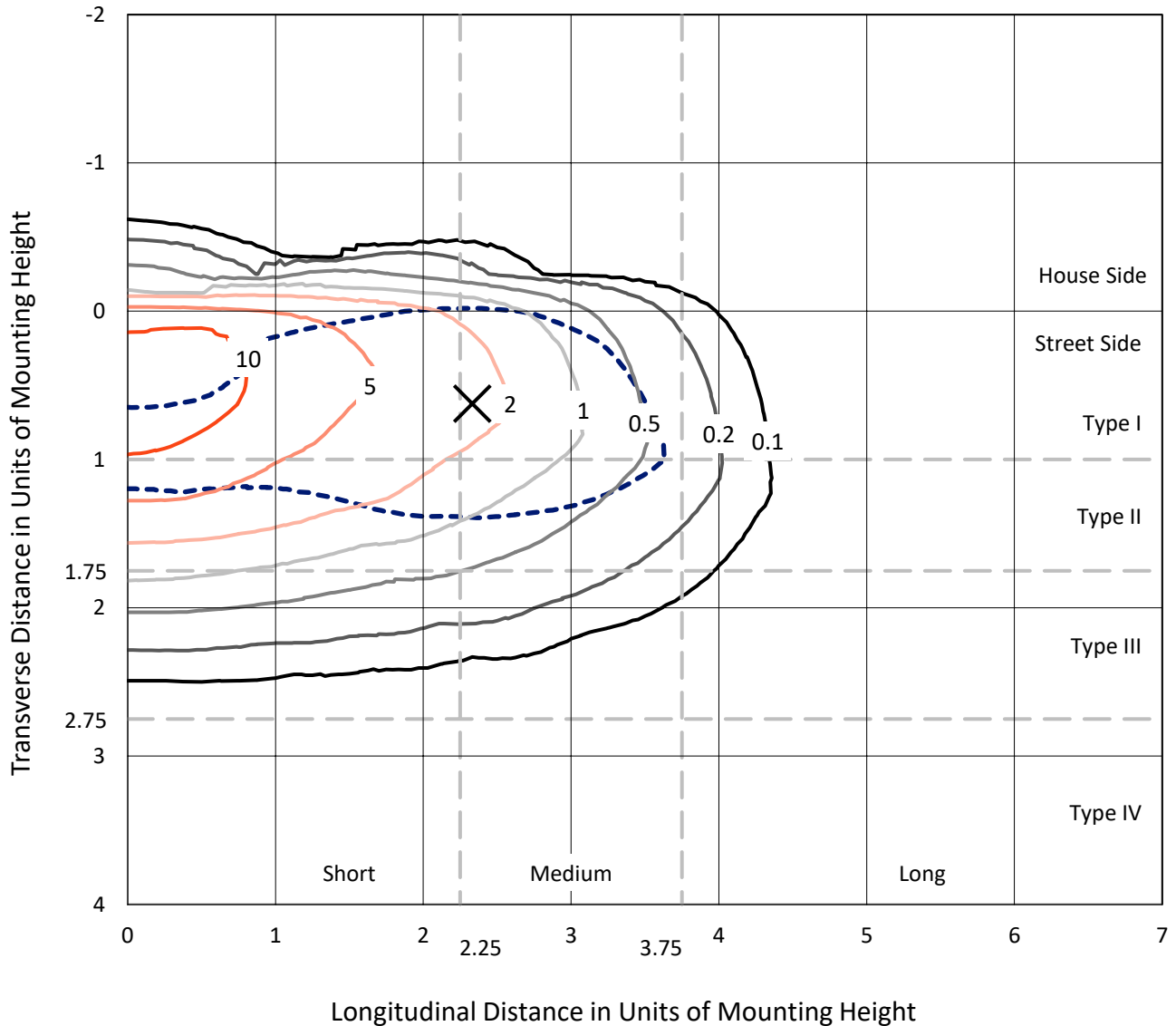
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

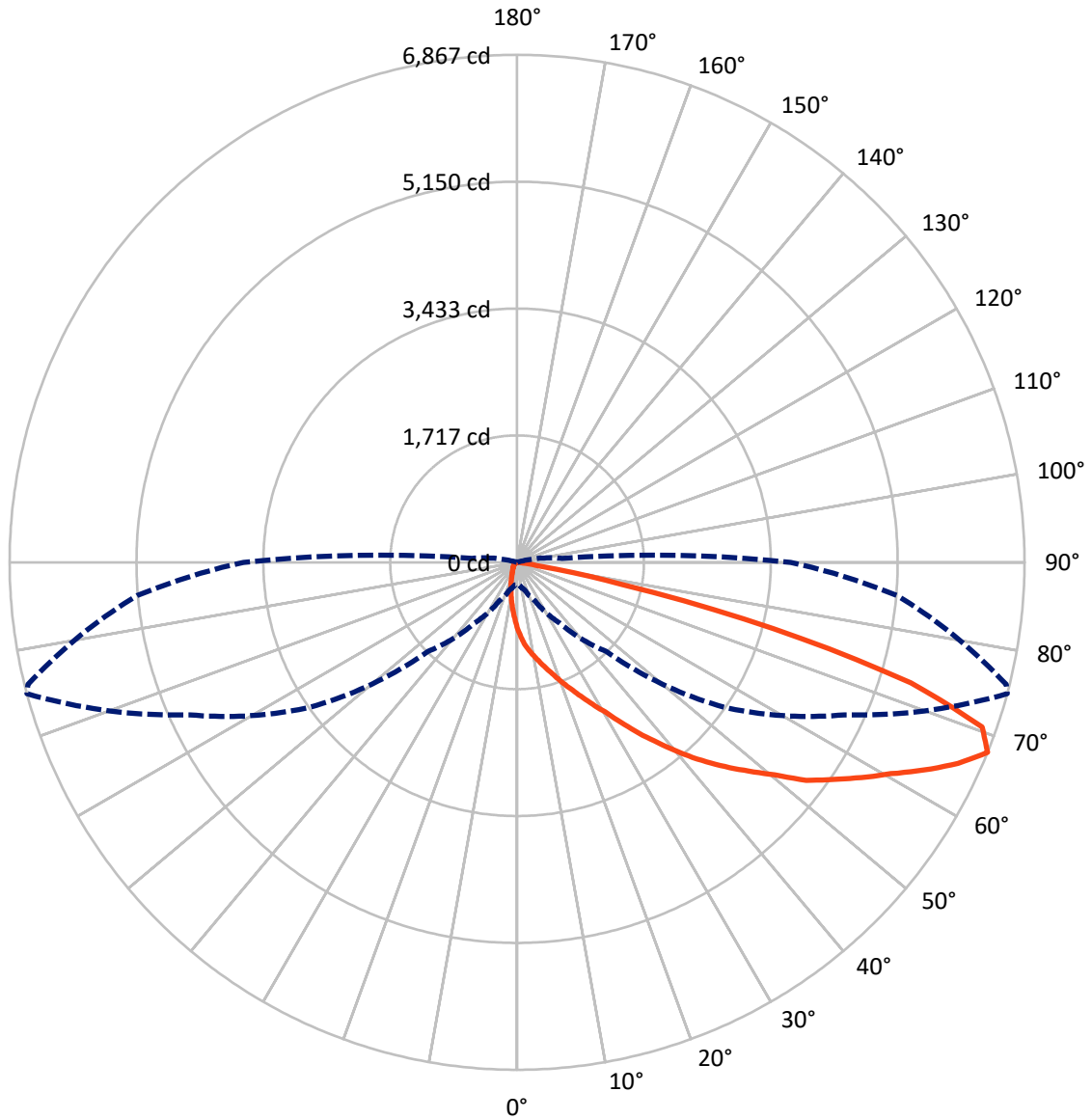
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.2 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	364.2	0.0	364.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6860.8	0.0	6860.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	7225.0	0.0	7225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.1
10°-20°	261.4	3.6
20°-30°	525.3	7.3
30°-40°	993.7	13.8
40°-50°	1486.6	20.6
50°-60°	1716.3	23.8
60°-70°	1521.3	21.1
70°-80°	614.9	8.5
80°-90°	24.5	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°	7225.0	100.0
0°-180°	7225.0	100.0

Coefficient of Utilization

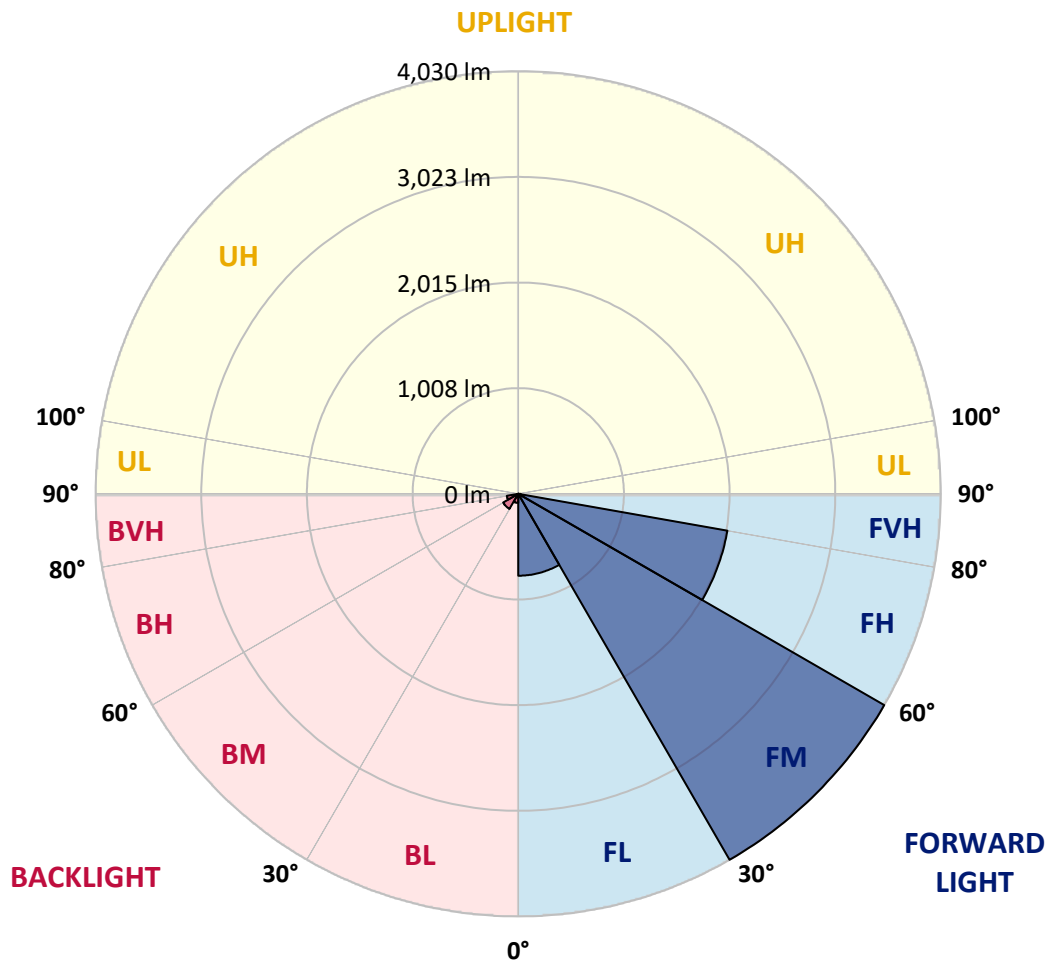


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.1	10.8			
FM (30°-60°)	4030.4	55.8			
FH (60°-80°)	2025.8	28.0			G2/5000
FVH (80°-90°)	23.5	0.3			G1/100
BL (0°-30°)	86.6	1.2	B0/110		
BM (30°-60°)	166.1	2.3	B0/220		
BH (60°-80°)	110.4	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9
2.5°	1249.2	1253.6	1244.9	1225.4	1208.0	1166.8	1134.3	1075.7	1012.8	1012.8	936.9
5°	1396.7	1392.4	1388.1	1372.9	1359.9	1325.2	1281.8	1218.9	1121.3	1112.6	986.8
7.5°	1468.3	1464.0	1455.3	1448.8	1448.8	1424.9	1383.7	1318.7	1210.2	1201.5	1032.4
10°	1552.9	1544.2	1544.2	1526.9	1522.5	1494.3	1472.6	1416.2	1297.0	1286.1	1084.4
12.5°	1652.7	1644.0	1646.1	1631.0	1624.5	1594.1	1563.7	1509.5	1390.2	1379.4	1145.1
15°	1709.0	1704.7	1717.7	1719.9	1724.2	1698.2	1670.0	1613.6	1494.3	1479.1	1216.7
17.5°	1741.6	1741.6	1756.8	1784.9	1817.5	1802.3	1780.6	1735.1	1600.6	1591.9	1292.6
20°	1804.5	1798.0	1824.0	1850.0	1891.2	1904.2	1897.7	1863.0	1728.6	1702.5	1375.0
22.5°	1908.6	1899.9	1923.8	1956.3	2006.2	2010.5	2014.8	1997.5	1858.7	1832.7	1461.8
25°	2153.7	2132.0	2110.3	2105.9	2125.5	2142.8	2129.8	2142.8	2006.2	1982.3	1555.1
27.5°	2630.8	2593.9	2489.8	2374.9	2294.6	2309.8	2268.6	2292.5	2175.3	2145.0	1641.8
30°	3088.4	3051.5	2967.0	2763.1	2578.7	2496.3	2435.6	2426.9	2348.8	2314.1	1741.6
32.5°	3407.2	3383.4	3327.0	3190.4	2960.5	2750.1	2633.0	2591.8	2580.9	2526.7	1869.5
35°	3624.1	3602.4	3563.4	3452.8	3283.6	3049.4	2847.7	2756.6	2839.0	2773.9	2014.8
37.5°	3754.3	3739.1	3695.7	3619.8	3528.7	3374.7	3114.4	2969.1	3099.3	3038.5	2201.4
40°	3849.7	3810.6	3780.3	3721.7	3691.4	3641.5	3418.1	3190.4	3381.2	3318.3	2385.7
42.5°	3858.4	3841.0	3817.1	3782.4	3786.8	3819.3	3741.2	3446.3	3665.3	3606.8	2580.9
45°	3856.2	3838.8	3821.5	3786.8	3808.5	3929.9	4001.5	3715.2	3942.9	3882.2	2787.0
47.5°	3793.3	3780.3	3784.6	3784.6	3812.8	3977.6	4203.2	3988.5	4220.5	4162.0	3036.4
50°	3572.1	3585.1	3671.8	3717.4	3767.3	3979.8	4344.2	4274.8	4519.8	4478.6	3277.1
52.5°	2871.5	2945.3	3296.6	3537.4	3682.7	3936.4	4435.3	4576.2	4899.4	4836.5	3550.4
55°	2194.9	2199.2	2537.5	3097.1	3515.7	3858.4	4487.3	4780.1	5187.8	5153.1	3791.1
57.5°	1780.6	1778.4	1945.4	2448.6	3081.9	3734.7	4500.3	4929.8	5493.7	5428.6	4068.7
60°	1455.3	1446.6	1546.4	1856.5	2518.0	3444.1	4452.6	5051.2	5808.1	5784.3	4359.4
62.5°	1051.9	1060.6	1192.9	1433.6	1941.1	2908.4	4350.7	5088.1	6187.7	6163.8	4684.7
65°	605.1	631.1	776.4	1032.4	1487.8	2275.1	4060.1	5059.9	6558.6	6556.4	4986.1
67.5°	303.6	305.8	383.9	576.9	999.8	1702.5	3418.1	4882.0	6866.5	6818.8	5159.7
70°	195.2	199.5	225.6	297.1	553.1	1179.8	2611.3	4378.9	6673.5	6656.1	4905.9
72.5°	149.6	154.0	175.7	195.2	288.5	670.2	1767.6	3402.9	5571.7	5524.0	3825.8
75°	117.1	119.3	141.0	158.3	193.0	314.5	887.1	2121.1	3589.4	3465.8	2177.5
77.5°	93.3	95.4	106.3	125.8	147.5	175.7	262.4	954.3	1459.6	1303.5	707.0
80°	60.7	62.9	80.2	97.6	125.8	114.9	101.9	275.4	312.3	281.9	125.8
82.5°	34.7	36.9	54.2	78.1	95.4	65.1	58.6	80.2	73.7	71.6	39.0
85°	10.8	10.8	36.9	54.2	43.4	19.5	36.9	28.2	23.9	21.7	13.0
87.5°	2.2	2.2	17.4	19.5	6.5	2.2	4.3	6.5	8.7	10.8	6.5
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°	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9	897.9
2.5°	900.1	856.7	776.4	707.0	639.8	581.2	540.0	503.2	477.1	470.6	459.8
5°	906.6	822.0	668.0	537.9	425.1	334.0	281.9	247.2	229.9	219.1	219.1
7.5°	913.1	787.3	566.1	392.6	268.9	203.9	171.3	156.2	149.6	147.5	145.3
10°	926.1	761.3	479.3	281.9	184.4	154.0	141.0	134.5	130.1	128.0	128.0
12.5°	947.8	739.6	399.1	208.2	151.8	136.6	128.0	119.3	114.9	112.8	112.8
15°	976.0	724.4	329.7	167.0	138.8	123.6	112.8	104.1	97.6	95.4	95.4
17.5°	1015.0	713.5	271.1	147.5	128.0	110.6	97.6	88.9	82.4	80.2	80.2
20°	1054.1	713.5	223.4	136.6	117.1	97.6	84.6	73.7	67.2	65.1	65.1
22.5°	1106.1	711.4	186.5	125.8	104.1	84.6	71.6	58.6	54.2	52.1	52.1
25°	1149.5	711.4	160.5	114.9	91.1	73.7	58.6	47.7	43.4	41.2	41.2
27.5°	1201.5	704.9	136.6	101.9	78.1	60.7	47.7	39.0	34.7	32.5	32.5
30°	1247.1	696.2	121.5	91.1	67.2	49.9	39.0	30.4	28.2	28.2	28.2
32.5°	1323.0	689.7	108.4	78.1	56.4	41.2	30.4	23.9	21.7	21.7	21.7
35°	1414.1	689.7	99.8	67.2	47.7	34.7	23.9	19.5	17.4	17.4	17.4
37.5°	1533.4	696.2	88.9	58.6	39.0	28.2	19.5	15.2	13.0	13.0	13.0
40°	1659.2	711.4	80.2	52.1	34.7	21.7	15.2	10.8	8.7	10.8	10.8
42.5°	1808.8	726.6	71.6	45.5	28.2	17.4	10.8	6.5	4.3	6.5	6.5
45°	1956.3	741.7	67.2	39.0	23.9	13.0	6.5	4.3	2.2	4.3	4.3
47.5°	2138.5	778.6	62.9	34.7	19.5	10.8	4.3	2.2	0.0	2.2	2.2
50°	2348.8	819.8	56.4	28.2	15.2	8.7	4.3	0.0	0.0	0.0	0.0
52.5°	2550.5	854.5	49.9	23.9	13.0	6.5	2.2	0.0	0.0	0.0	0.0
55°	2752.2	876.2	43.4	19.5	10.8	6.5	2.2	0.0	0.0	0.0	0.0
57.5°	2969.1	889.2	39.0	17.4	8.7	4.3	2.2	0.0	0.0	0.0	0.0
60°	3209.9	889.2	32.5	15.2	6.5	4.3	2.2	0.0	0.0	0.0	0.0
62.5°	3476.6	863.2	30.4	13.0	6.5	4.3	2.2	0.0	0.0	0.0	0.0
65°	3693.5	769.9	26.0	10.8	6.5	4.3	2.2	0.0	0.0	0.0	0.0
67.5°	3702.2	609.4	23.9	8.7	6.5	4.3	2.2	0.0	0.0	0.0	0.0
70°	3301.0	416.4	19.5	6.5	4.3	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	2470.3	223.4	17.4	6.5	4.3	2.2	2.2	0.0	0.0	0.0	0.0
75°	1331.7	86.8	10.8	6.5	4.3	2.2	2.2	0.0	0.0	0.0	0.0
77.5°	388.2	43.4	6.5	4.3	4.3	2.2	2.2	0.0	0.0	0.0	0.0
80°	71.6	21.7	4.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	19.5	8.7	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	8.7	4.3	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	2.2	2.2	2.2	2.2	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)