

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: P595412

Luminaire Tested: **IST-PA1F-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-827-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5943 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

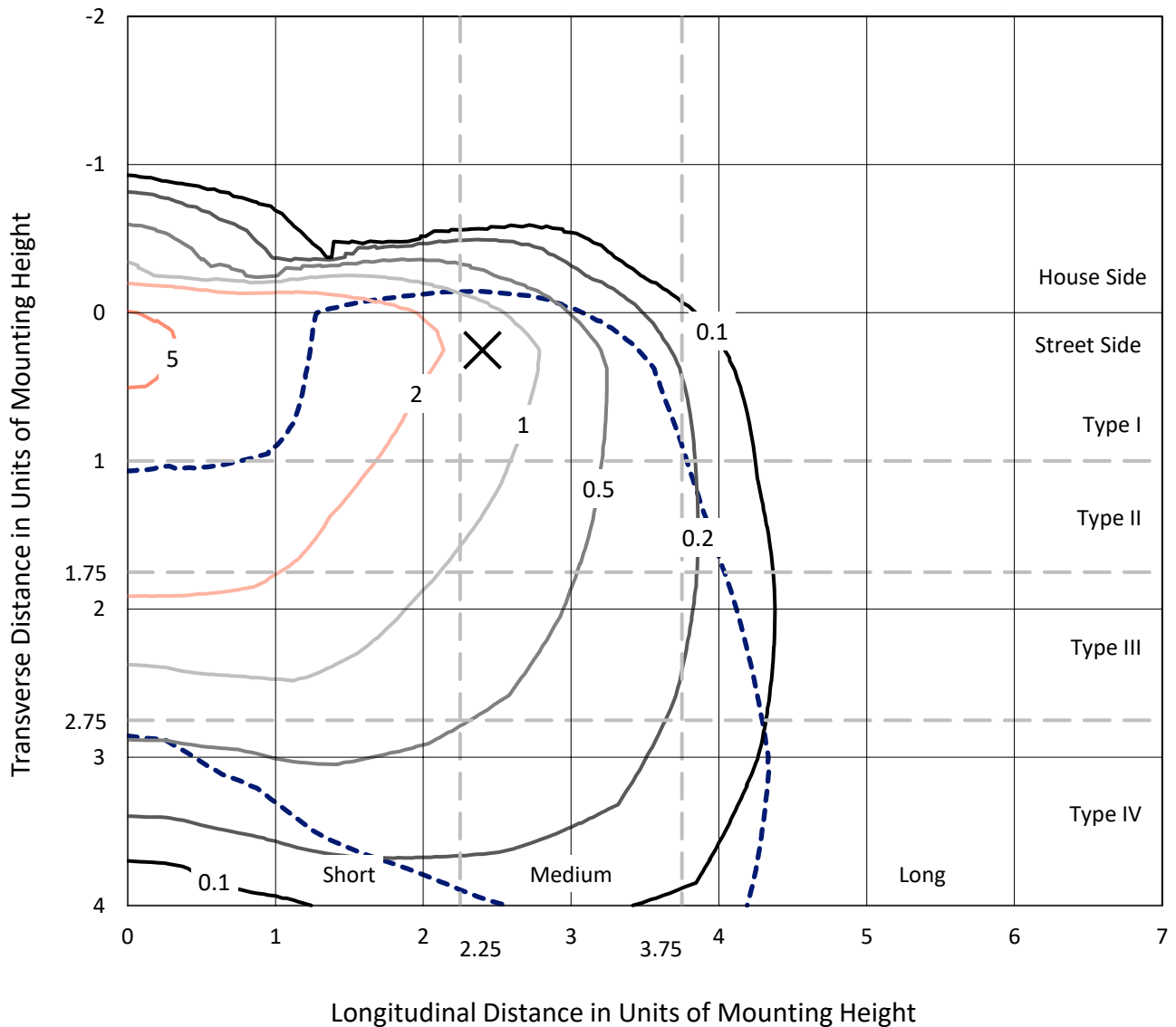
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

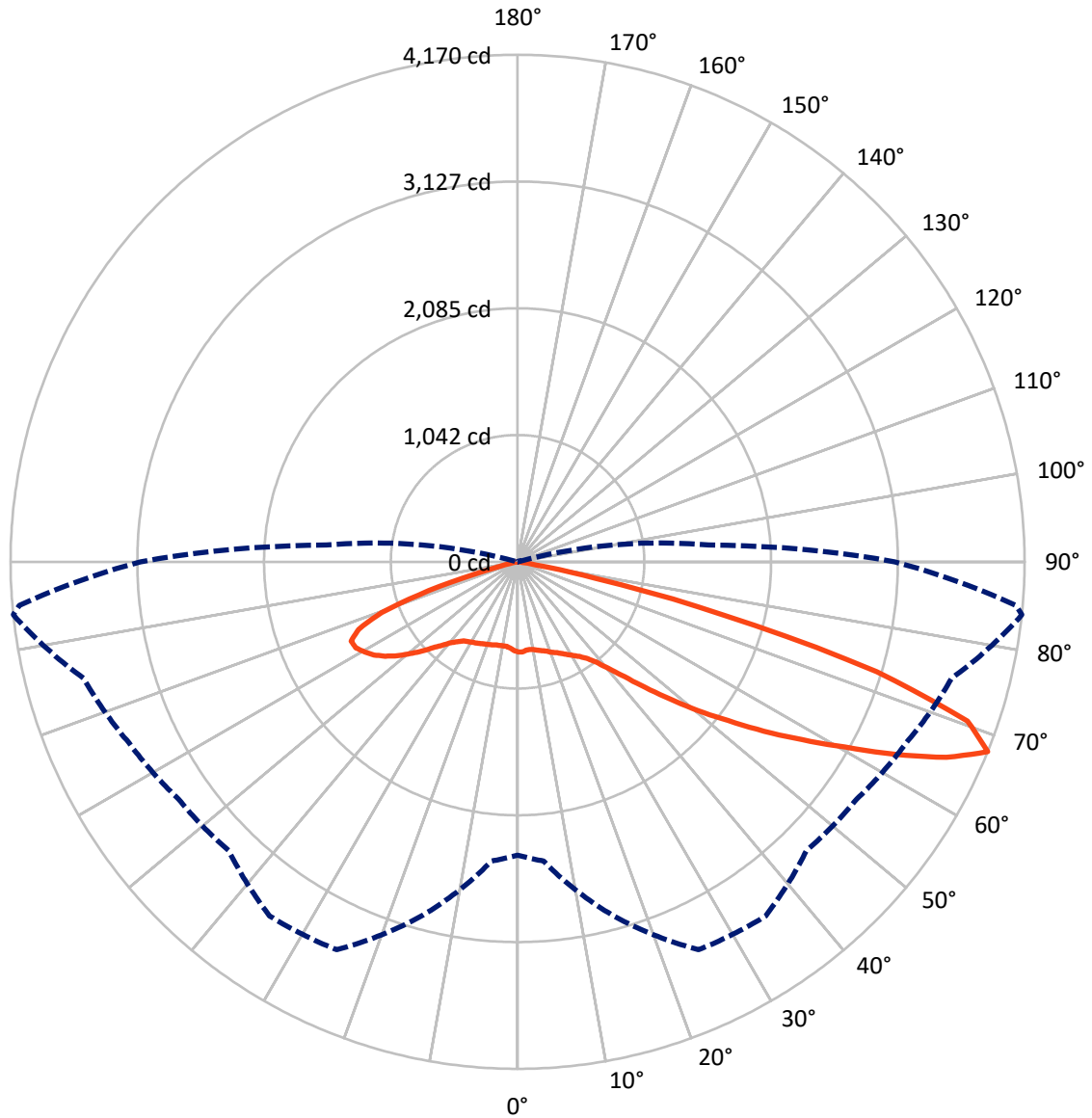
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	517.4	0.0	517.4
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5425.6	0.0	5425.6
	% Fixture	91.3	0.0	91.3
Total	Lumens	5943.0	0.0	5943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.1
10°-20°	173.6	2.9
20°-30°	278.1	4.7
30°-40°	400.2	6.7
40°-50°	687.0	11.6
50°-60°	1200.2	20.2
60°-70°	1718.8	28.9
70°-80°	1291.9	21.7
80°-90°	126.8	2.1
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°	5943.0	100.0
0°-180°	5943.0	100.0

Coefficient of Utilization

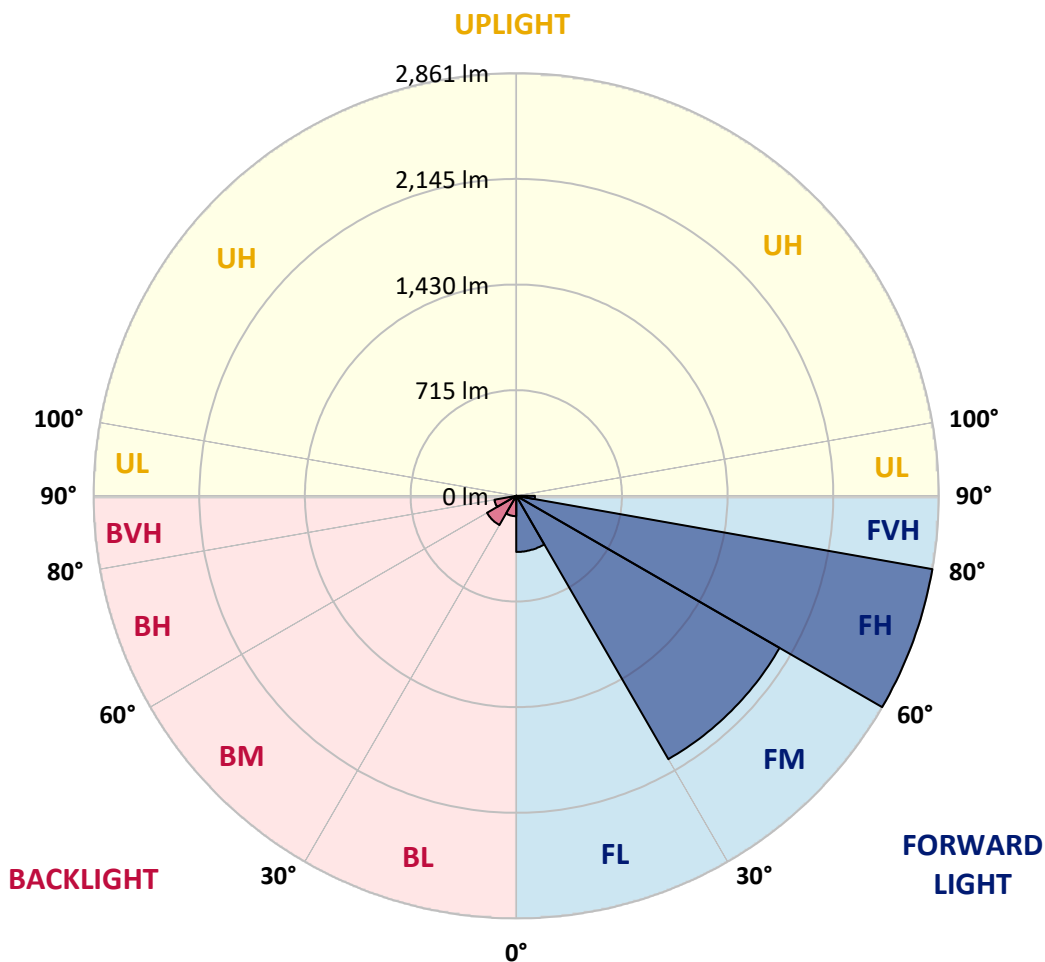


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.9	6.4			
FM (30°-60°)	2058.6	34.6			
FH (60°-80°)	2860.6	48.1			G2/5000
FVH (80°-90°)	126.4	2.1			G2/225
BL (0°-30°)	138.2	2.3	B1/500		
BM (30°-60°)	228.8	3.9	B1/1000		
BH (60°-80°)	150.0	2.5	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4
2.5°	782.6	786.6	788.6	778.6	778.6	770.5	758.5	754.5	748.5	742.4	740.4
5°	822.7	828.7	826.7	814.7	808.6	792.6	776.5	760.5	744.4	730.4	730.4
7.5°	868.8	870.9	864.8	844.8	832.7	810.7	786.6	768.5	748.5	728.4	724.4
10°	909.0	907.0	898.9	878.9	856.8	828.7	802.6	782.6	758.5	734.4	732.4
12.5°	937.1	939.1	929.0	901.0	878.9	846.8	820.7	800.6	772.5	746.4	740.4
15°	961.1	967.2	955.1	927.0	894.9	866.8	846.8	820.7	788.6	758.5	754.5
17.5°	983.2	985.2	975.2	943.1	913.0	888.9	866.8	842.8	810.7	772.5	768.5
20°	995.3	1001.3	995.3	955.1	927.0	909.0	890.9	866.8	830.7	794.6	790.6
22.5°	1003.3	1009.3	1007.3	963.2	939.1	925.0	909.0	886.9	852.8	810.7	806.6
25°	1007.3	1011.3	1015.3	971.2	951.1	945.1	931.1	911.0	878.9	834.7	830.7
27.5°	1013.3	1017.3	1021.3	981.2	973.2	967.2	963.2	947.1	909.0	862.8	856.8
30°	1023.4	1029.4	1033.4	999.3	999.3	1005.3	1005.3	983.2	941.1	892.9	888.9
32.5°	1035.4	1037.4	1045.4	1017.3	1027.4	1041.4	1037.4	1015.3	971.2	927.0	921.0
35°	1067.5	1067.5	1081.5	1045.4	1057.5	1069.5	1073.5	1057.5	1017.3	973.2	971.2
37.5°	1145.8	1145.8	1157.8	1099.6	1097.6	1109.6	1123.7	1123.7	1083.6	1043.4	1039.4
40°	1322.3	1322.3	1322.3	1187.9	1165.8	1179.9	1201.9	1214.0	1179.9	1151.8	1151.8
42.5°	1617.3	1619.3	1589.2	1350.4	1256.1	1280.2	1304.3	1330.4	1312.3	1292.2	1288.2
45°	1922.3	1912.3	1908.3	1589.2	1416.6	1404.6	1434.7	1478.8	1484.9	1472.8	1480.9
47.5°	2131.0	2141.0	2147.0	1886.2	1641.4	1559.1	1587.2	1649.4	1685.5	1683.5	1695.6
50°	2333.6	2339.7	2345.7	2213.3	1938.4	1753.7	1771.8	1856.1	1906.2	1922.3	1930.3
52.5°	2510.2	2494.2	2520.3	2502.2	2253.4	1976.5	1976.5	2072.8	2163.1	2169.1	2167.1
55°	2562.4	2572.4	2650.7	2704.9	2576.4	2249.4	2209.2	2311.6	2407.9	2458.1	2458.1
57.5°	2678.8	2688.8	2783.1	2905.5	2811.2	2518.3	2458.1	2558.4	2662.7	2759.0	2773.1
60°	2831.3	2833.3	2933.6	3120.2	2989.8	2761.0	2710.9	2825.3	2929.6	3094.1	3140.3
62.5°	2913.5	2921.6	3060.0	3304.8	3214.5	2973.7	2961.7	3066.0	3200.5	3489.4	3531.6
65°	2787.1	2839.3	3140.3	3415.2	3397.1	3172.4	3214.5	3298.8	3453.3	3876.7	3916.8
67.5°	2411.9	2470.1	3007.9	3519.5	3555.7	3359.0	3403.2	3525.6	3696.1	4169.7	4113.5
70°	2221.3	2269.4	2686.8	3577.7	3688.1	3567.7	3587.8	3702.1	3752.3	3924.9	3864.7
72.5°	1683.5	1733.7	2273.4	3379.1	3802.5	3786.4	3736.2	3641.9	3345.0	3088.1	2941.6
75°	744.4	802.6	1513.0	2640.7	3519.5	3910.8	3645.9	3118.2	2401.9	1753.7	1625.3
77.5°	329.1	363.2	585.9	1466.8	2644.7	3385.1	2883.4	2078.8	1206.0	652.1	606.0
80°	106.3	110.4	184.6	513.7	1352.4	2241.3	1765.8	999.3	371.2	152.5	142.5
82.5°	42.1	46.2	88.3	216.7	559.8	890.9	866.8	361.2	108.4	40.1	40.1
85°	12.0	14.0	44.1	114.4	198.7	250.8	307.0	120.4	58.2	12.0	12.0
87.5°	4.0	4.0	16.1	36.1	38.1	26.1	58.2	46.2	36.1	4.0	4.0
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°	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4
2.5°	736.4	732.4	722.4	714.3	710.3	704.3	696.3	692.3	692.3	690.3	684.2
5°	722.4	716.3	698.3	686.2	676.2	654.1	638.1	618.0	598.0	591.9	598.0
7.5°	716.3	704.3	680.2	656.2	614.0	555.8	517.7	475.6	461.5	443.5	445.5
10°	718.4	704.3	670.2	616.0	533.7	447.5	387.3	331.1	303.0	288.9	291.0
12.5°	724.4	708.3	660.2	561.8	443.5	339.1	246.8	202.7	194.6	194.6	194.6
15°	736.4	712.3	644.1	497.6	347.1	224.7	174.6	170.6	176.6	182.6	184.6
17.5°	748.5	724.4	620.0	431.4	252.8	168.6	162.5	162.5	168.6	174.6	176.6
20°	762.5	736.4	585.9	361.2	180.6	158.5	156.5	154.5	158.5	164.5	166.5
22.5°	784.6	748.5	545.8	278.9	156.5	152.5	148.5	146.5	148.5	154.5	156.5
25°	804.6	764.5	503.7	206.7	146.5	142.5	140.5	138.5	138.5	142.5	144.5
27.5°	828.7	782.6	457.5	154.5	134.4	132.4	130.4	128.4	126.4	130.4	132.4
30°	858.8	798.6	407.3	130.4	122.4	120.4	118.4	116.4	114.4	116.4	118.4
32.5°	896.9	820.7	349.1	118.4	112.4	106.3	104.3	104.3	102.3	102.3	104.3
35°	947.1	844.8	286.9	110.4	102.3	96.3	90.3	88.3	88.3	88.3	90.3
37.5°	1021.3	888.9	226.7	102.3	94.3	84.3	78.3	72.2	72.2	72.2	72.2
40°	1123.7	937.1	176.6	96.3	88.3	74.2	66.2	58.2	54.2	52.2	54.2
42.5°	1282.2	1009.3	136.4	88.3	84.3	66.2	54.2	44.1	36.1	34.1	36.1
45°	1456.8	1087.6	108.4	82.3	76.2	56.2	42.1	30.1	22.1	20.1	22.1
47.5°	1677.5	1185.9	92.3	74.2	66.2	46.2	30.1	16.1	10.0	12.0	12.0
50°	1890.2	1282.2	84.3	68.2	58.2	38.1	18.1	8.0	4.0	6.0	6.0
52.5°	2125.0	1384.5	78.3	60.2	50.2	28.1	10.0	2.0	0.0	2.0	2.0
55°	2361.7	1476.8	72.2	54.2	40.1	20.1	4.0	0.0	0.0	0.0	2.0
57.5°	2618.6	1555.1	66.2	46.2	30.1	12.0	2.0	0.0	0.0	0.0	0.0
60°	2833.3	1615.3	60.2	40.1	20.1	6.0	0.0	0.0	0.0	0.0	0.0
62.5°	3029.9	1669.5	46.2	30.1	12.0	4.0	0.0	0.0	0.0	0.0	0.0
65°	3160.4	1681.5	32.1	20.1	8.0	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	3102.2	1577.2	20.1	14.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2726.9	1324.3	14.0	8.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1908.3	854.8	12.0	6.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1007.3	309.0	8.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	357.2	68.2	4.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	78.3	14.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)