

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: P595354

Luminaire Tested: **IST-PA1F-727-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1F-727-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6640 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

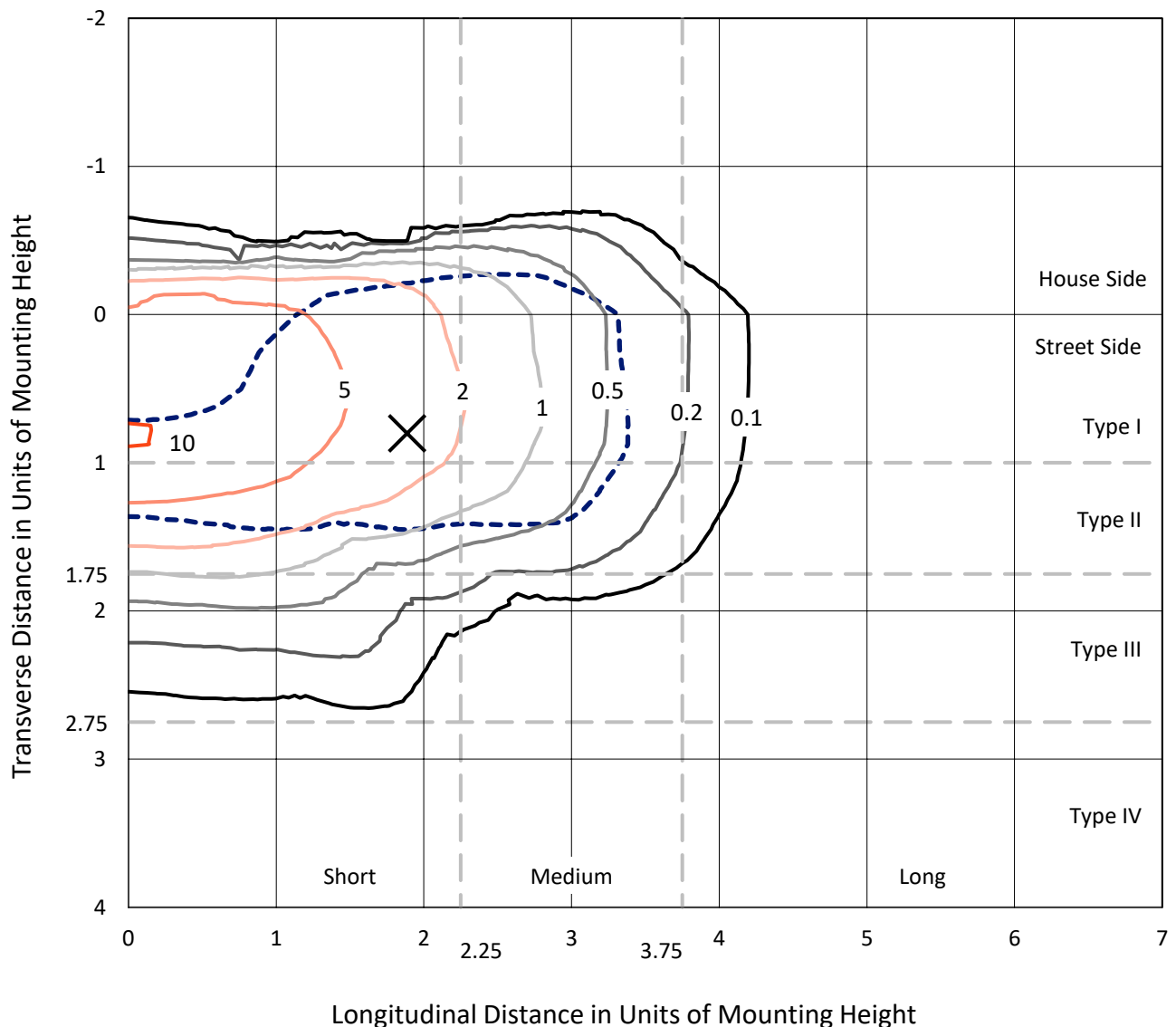
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

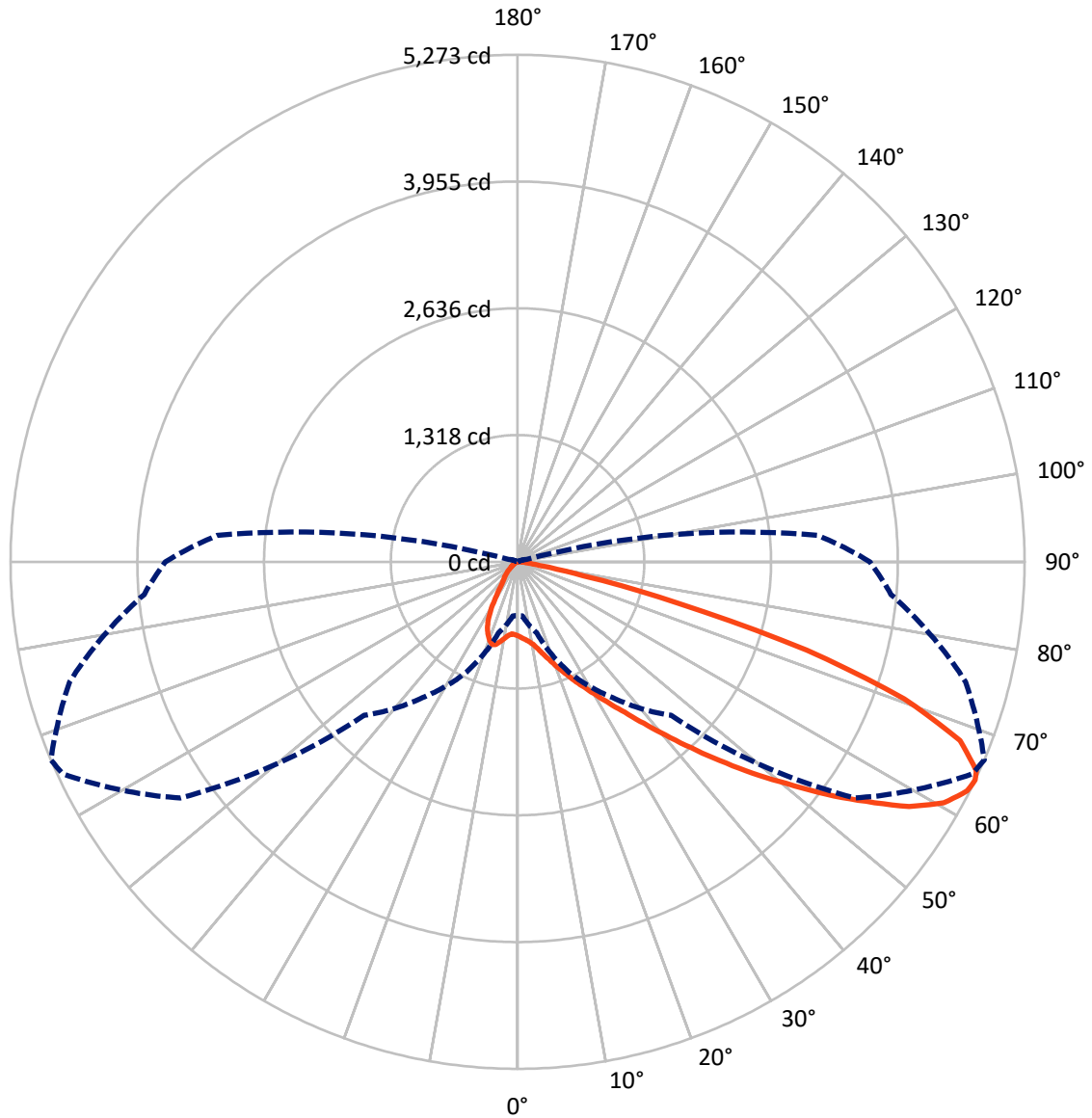
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	849.4	0.0	849.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5790.6	0.0	5790.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6640.0	0.0	6640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	1.1
10°-20°	216.0	3.3
20°-30°	391.9	5.9
30°-40°	750.8	11.3
40°-50°	1383.8	20.8
50°-60°	1787.3	26.9
60°-70°	1464.0	22.0
70°-80°	538.2	8.1
80°-90°	34.7	0.5
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°	6640.0	100.0
0°-180°	6640.0	100.0

**Coefficient of Utilization**



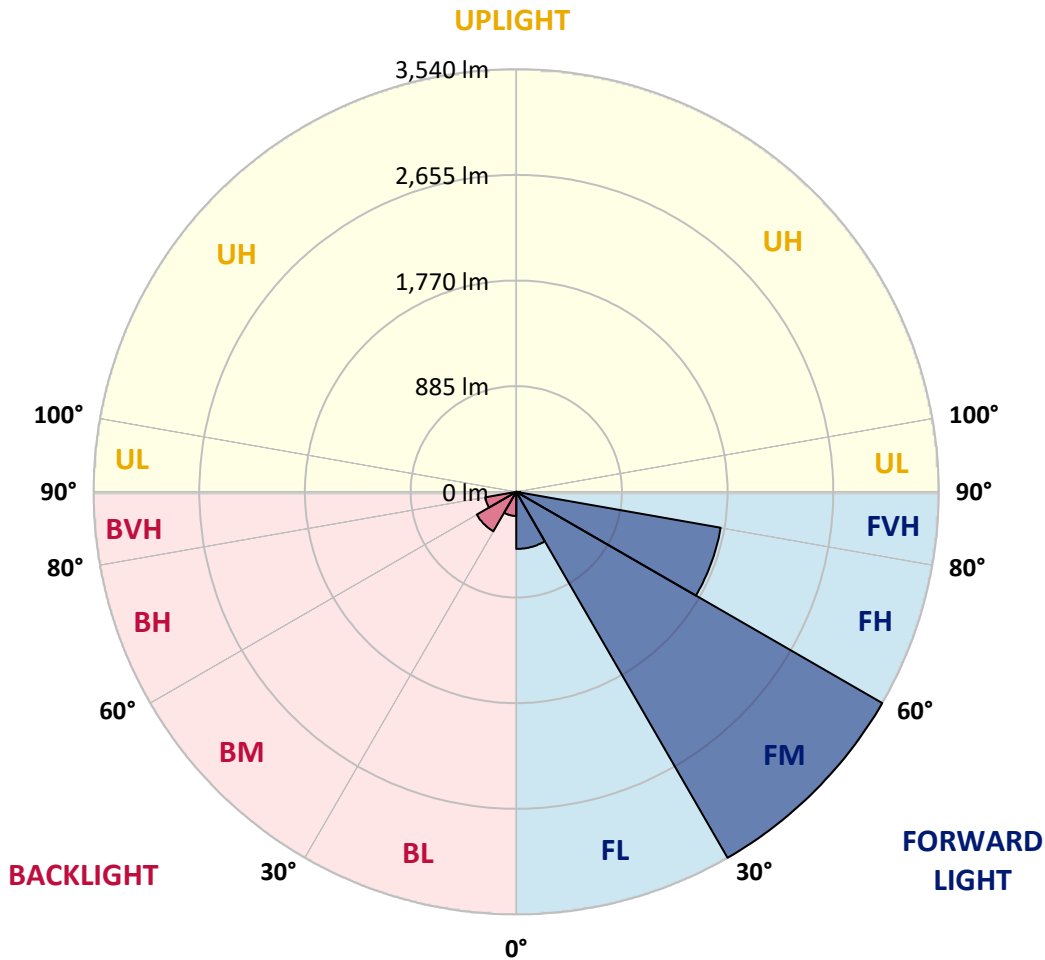
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.7	7.2			
FM (30°-60°)	3540.1	53.3			
FH (60°-80°)	1738.6	26.2			G1/1800
FVH (80°-90°)	33.2	0.5			G1/100
BL (0°-30°)	202.4	3.0	B1/500		
BM (30°-60°)	381.9	5.8	B1/1000		
BH (60°-80°)	263.5	4.0	B1/500		G1/500
BVH (80°-90°)	1.6	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5
2.5°	798.9	798.9	803.5	801.2	801.2	796.6	789.8	792.1	789.8	787.5	780.7
5°	785.2	787.5	789.8	794.4	803.5	808.1	808.1	810.3	810.3	808.1	798.9
7.5°	778.4	782.9	787.5	792.1	803.5	810.3	821.8	835.4	835.4	837.7	828.6
10°	803.5	808.1	814.9	821.8	833.2	844.6	853.7	869.7	869.7	874.3	872.0
12.5°	856.0	856.0	858.3	862.8	878.8	892.5	908.5	922.2	924.5	926.8	919.9
15°	919.9	919.9	922.2	922.2	931.3	951.9	981.5	995.2	993.0	990.7	977.0
17.5°	993.0	993.0	993.0	995.2	999.8	1011.2	1045.5	1072.8	1070.6	1068.3	1040.9
20°	1061.4	1066.0	1070.6	1072.8	1077.4	1086.5	1123.1	1155.0	1161.9	1152.7	1104.8
22.5°	1139.0	1141.3	1143.6	1150.5	1161.9	1166.4	1203.0	1250.9	1257.7	1246.3	1182.4
25°	1216.7	1221.2	1228.1	1237.2	1248.6	1271.4	1296.5	1360.5	1367.3	1353.6	1266.9
27.5°	1387.9	1385.6	1365.0	1349.0	1351.3	1367.3	1401.5	1470.0	1476.9	1463.2	1351.3
30°	1680.0	1652.6	1613.8	1543.1	1474.6	1481.4	1529.4	1595.6	1607.0	1588.7	1444.9
32.5°	2095.5	2068.1	1972.2	1817.0	1666.3	1616.1	1677.7	1741.7	1755.4	1734.8	1554.5
35°	2499.5	2492.7	2401.3	2214.2	1958.5	1819.3	1835.2	1917.4	1922.0	1896.9	1691.4
37.5°	2999.4	2974.3	2848.7	2638.7	2337.4	2088.6	2043.0	2120.6	2132.0	2102.3	1858.1
40°	3330.4	3321.3	3245.9	3097.6	2773.4	2460.7	2296.3	2371.7	2369.4	2326.0	2049.8
42.5°	3522.1	3526.7	3522.1	3451.4	3266.5	2908.1	2631.9	2636.5	2643.3	2597.7	2271.2
45°	3652.2	3652.2	3659.1	3716.2	3645.4	3442.2	3040.5	2937.8	2946.9	2876.1	2501.8
47.5°	3650.0	3663.7	3700.2	3832.6	3928.4	3939.9	3551.8	3289.3	3284.7	3177.4	2739.2
50°	3403.4	3394.3	3545.0	3841.7	4129.3	4350.7	4035.7	3661.4	3622.6	3490.2	2985.7
52.5°	2848.7	2878.4	3129.5	3565.5	4177.2	4629.2	4453.4	4067.7	4017.5	3800.6	3202.6
55°	2364.8	2396.8	2641.0	3067.9	3917.0	4727.4	4734.2	4499.1	4398.7	4070.0	3426.3
57.5°	1775.9	1837.5	2198.2	2599.9	3346.4	4483.1	4834.6	4912.3	4802.7	4330.2	3608.9
60°	1134.5	1171.0	1575.0	2070.4	2711.8	3844.0	4814.1	5151.9	5092.6	4567.6	3761.8
62.5°	741.9	762.4	1040.9	1559.0	2065.8	2896.7	4569.9	5247.8	5247.8	4727.4	3875.9
64°	559.2	563.8	762.4	1266.9	1723.4	2257.5	4282.2	5218.1	5272.9	4823.2	3898.8
65°	442.8	445.1	595.8	1052.3	1547.6	1851.2	4031.2	5154.2	5243.2	4859.8	3912.5
67.5°	310.4	317.3	385.8	607.2	1109.4	1068.3	2988.0	4852.9	4962.5	4871.2	3894.2
70°	269.4	278.5	324.1	397.2	792.1	620.9	1588.7	4136.2	4266.3	4537.9	3624.8
72.5°	205.4	216.9	271.6	335.5	557.0	420.0	614.0	2937.8	3143.2	3508.4	2992.6
75°	148.4	152.9	200.9	273.9	390.3	324.1	264.8	1515.7	1723.4	2070.4	1860.4
77.5°	93.6	100.4	137.0	205.4	349.2	246.5	157.5	552.4	696.2	901.6	812.6
80°	54.8	57.1	82.2	141.5	235.1	182.6	100.4	196.3	237.4	335.5	216.9
82.5°	32.0	34.2	52.5	95.9	152.9	141.5	63.9	100.4	111.8	127.8	45.7
85°	11.4	11.4	36.5	57.1	82.2	70.8	36.5	52.5	57.1	70.8	13.7
87.5°	2.3	2.3	18.3	29.7	29.7	11.4	18.3	22.8	27.4	38.8	4.6
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°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5
2.5°	778.4	771.5	764.7	755.6	748.7	735.0	728.2	719.0	716.8	712.2	709.9
5°	796.6	785.2	769.3	746.4	732.7	712.2	698.5	684.8	682.5	677.9	675.7
7.5°	821.8	810.3	789.8	764.7	741.9	721.3	705.3	684.8	664.3	648.3	648.3
10°	862.8	849.1	821.8	798.9	771.5	728.2	652.8	584.4	541.0	513.6	504.5
12.5°	913.1	894.8	865.1	837.7	785.2	648.3	531.9	442.8	369.8	335.5	328.7
15°	965.6	949.6	919.9	878.8	721.3	541.0	388.1	251.1	180.3	148.4	152.9
17.5°	1022.6	999.8	965.6	883.4	634.6	404.0	207.7	127.8	109.6	105.0	105.0
20°	1082.0	1052.3	1018.1	833.2	522.7	232.8	118.7	95.9	89.0	82.2	84.5
22.5°	1145.9	1109.4	1056.9	757.8	374.4	125.5	91.3	77.6	68.5	66.2	66.2
25°	1214.4	1161.9	1095.7	671.1	216.9	95.9	75.3	61.6	54.8	52.5	50.2
27.5°	1287.4	1221.2	1104.8	557.0	123.3	79.9	59.3	47.9	41.1	38.8	38.8
30°	1353.6	1280.6	1084.3	413.2	93.6	66.2	47.9	36.5	32.0	32.0	32.0
32.5°	1442.6	1346.8	1020.3	257.9	75.3	52.5	36.5	29.7	25.1	25.1	25.1
35°	1559.0	1444.9	956.4	137.0	61.6	43.4	29.7	22.8	20.5	20.5	20.5
37.5°	1718.8	1575.0	899.4	86.7	50.2	34.2	22.8	18.3	16.0	16.0	16.0
40°	1883.2	1730.2	819.5	66.2	41.1	27.4	18.3	13.7	11.4	11.4	13.7
42.5°	2088.6	1910.6	728.2	57.1	34.2	22.8	13.7	9.1	6.8	9.1	9.1
45°	2296.3	2100.0	600.3	47.9	29.7	18.3	9.1	4.6	4.6	6.8	6.8
47.5°	2510.9	2300.9	465.7	41.1	25.1	13.7	6.8	2.3	2.3	4.6	4.6
50°	2732.3	2499.5	347.0	36.5	20.5	11.4	4.6	2.3	0.0	2.3	2.3
52.5°	2953.7	2691.2	269.4	32.0	18.3	9.1	2.3	0.0	0.0	0.0	2.3
55°	3159.2	2864.7	214.6	27.4	16.0	6.8	2.3	0.0	0.0	0.0	0.0
57.5°	3332.7	2992.6	171.2	25.1	13.7	4.6	2.3	0.0	0.0	0.0	0.0
60°	3497.0	3093.0	132.4	20.5	11.4	4.6	2.3	0.0	0.0	0.0	0.0
62.5°	3613.4	3131.8	107.3	18.3	9.1	4.6	0.0	0.0	0.0	0.0	0.0
64°	3663.7	3136.4	93.6	16.0	9.1	4.6	2.3	0.0	0.0	0.0	0.0
65°	3693.3	3122.7	86.7	16.0	9.1	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	3700.2	3047.3	66.2	13.7	6.8	2.3	2.3	0.0	0.0	0.0	0.0
70°	3499.3	2784.8	47.9	9.1	4.6	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	2924.1	2127.4	32.0	6.8	4.6	2.3	0.0	0.0	0.0	0.0	0.0
75°	1826.1	919.9	18.3	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	755.6	278.5	11.4	4.6	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	173.5	66.2	4.6	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.1	11.4	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.1	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	2.3	2.3	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)