

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: P595379

Luminaire Tested: **IST-PA1F-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595379
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-740-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 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: 9092 lumens
Efficiency: N/A
Efficacy: 97.2 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

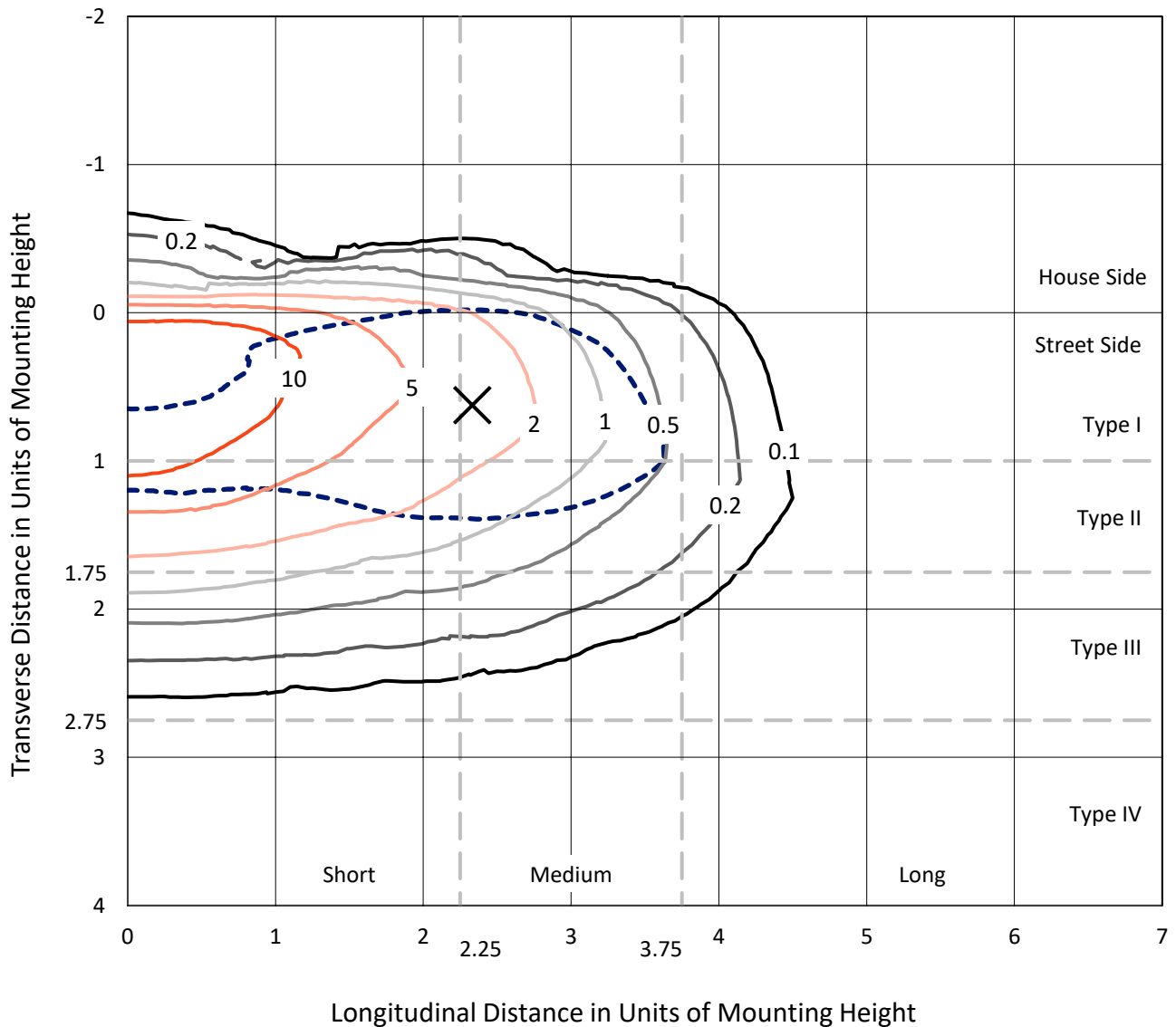
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

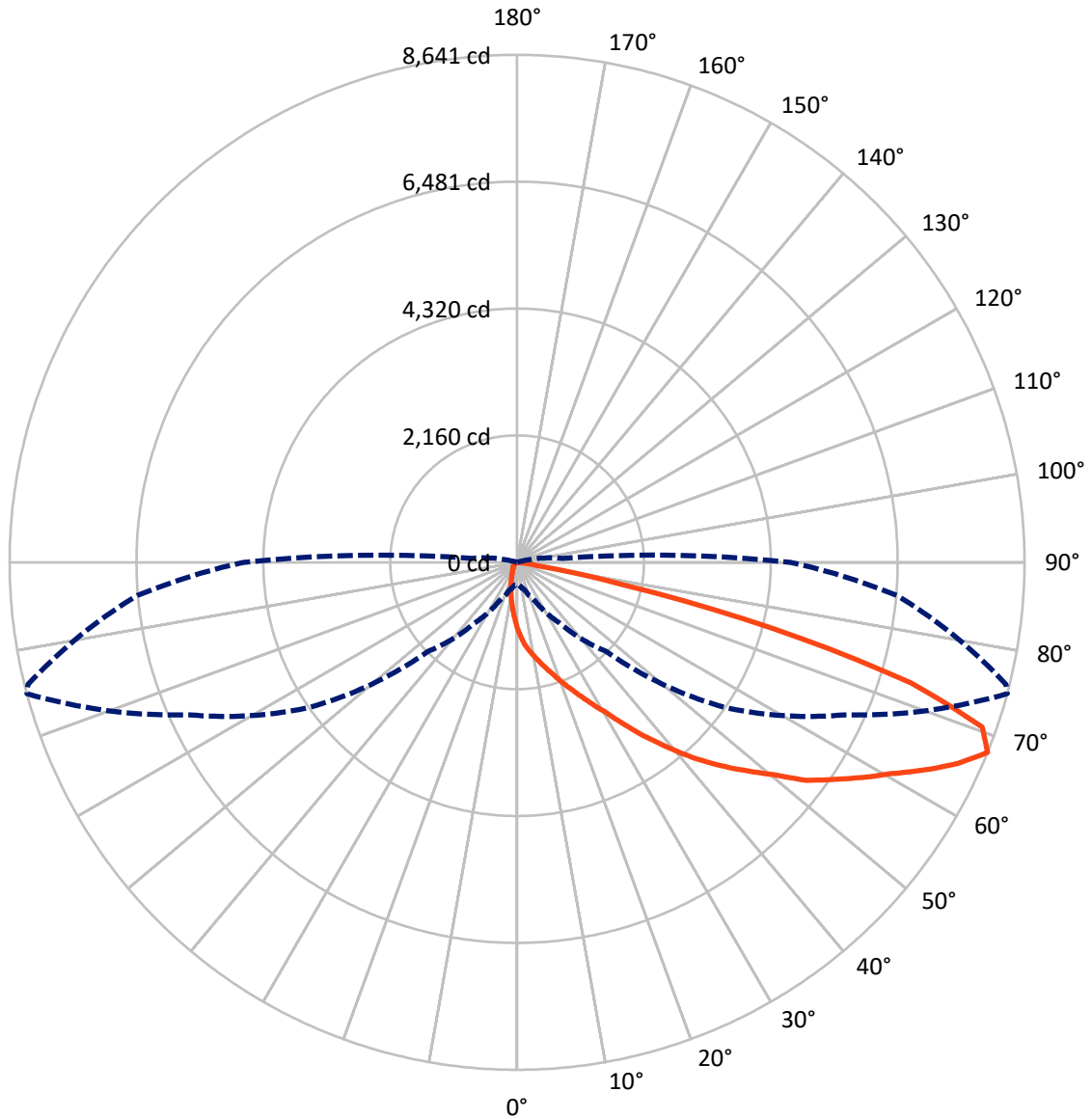
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.8 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	458.4	0.0	458.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8633.6	0.0	8633.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	9092.0	0.0	9092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.1
10°-20°	328.9	3.6
20°-30°	661.1	7.3
30°-40°	1250.5	13.8
40°-50°	1870.7	20.6
50°-60°	2159.8	23.8
60°-70°	1914.5	21.1
70°-80°	773.8	8.5
80°-90°	30.9	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°	9092.0	100.0
0°-180°	9092.0	100.0

Coefficient of Utilization



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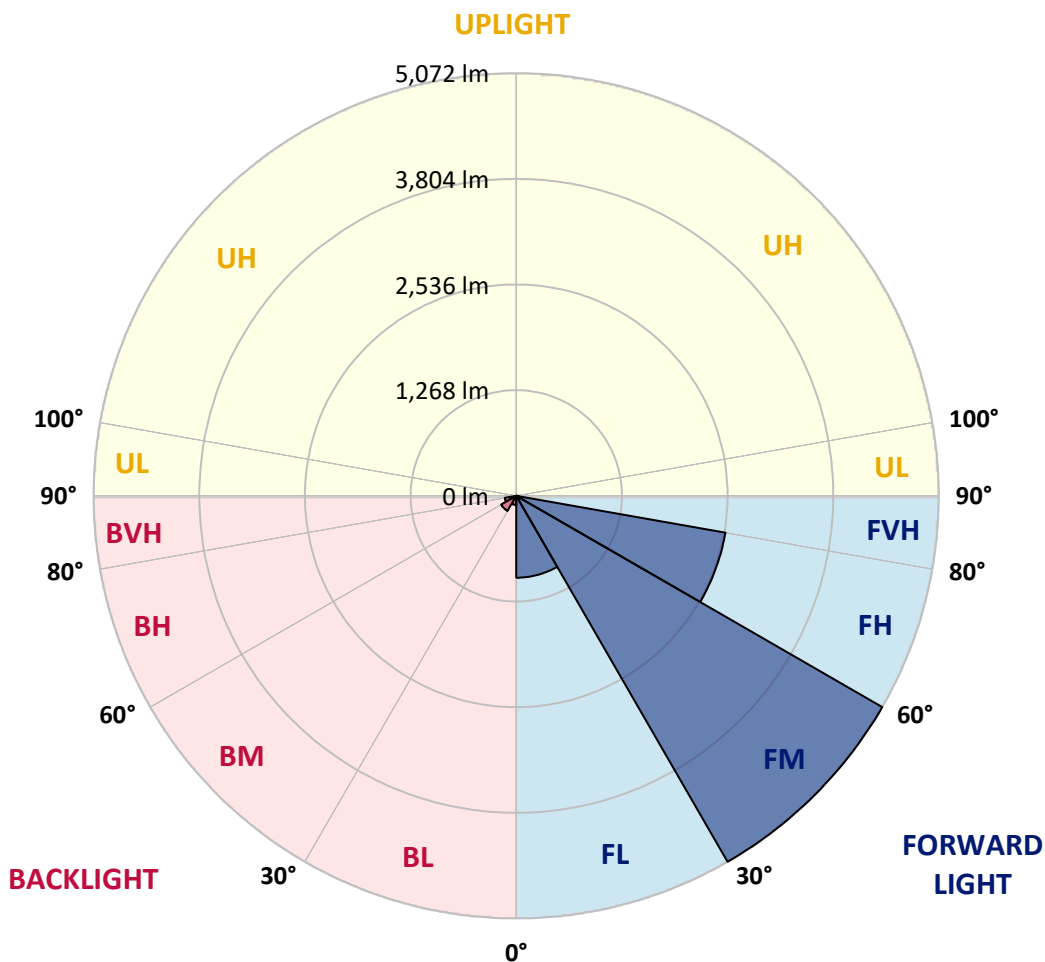
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.9	10.8			
FM (30°-60°)	5071.9	55.8			
FH (60°-80°)	2549.3	28.0			G2/5000
FVH (80°-90°)	29.5	0.3			G1/100
BL (0°-30°)	109.0	1.2	B0/110		
BM (30°-60°)	209.1	2.3	B0/220		
BH (60°-80°)	139.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1572.1	1577.5	1566.6	1542.0	1520.2	1468.4	1427.4	1353.7	1274.6	1274.6	1179.0
5°	1757.7	1752.2	1746.7	1727.6	1711.3	1667.6	1613.0	1533.9	1411.0	1400.1	1241.8
7.5°	1847.7	1842.3	1831.3	1823.2	1823.2	1793.1	1741.3	1659.4	1522.9	1512.0	1299.1
10°	1954.2	1943.2	1943.2	1921.4	1916.0	1880.5	1853.2	1782.2	1632.1	1618.5	1364.6
12.5°	2079.7	2068.8	2071.5	2052.4	2044.2	2006.0	1967.8	1899.6	1749.5	1735.8	1441.1
15°	2150.7	2145.2	2161.6	2164.3	2169.8	2137.0	2101.5	2030.6	1880.5	1861.4	1531.1
17.5°	2191.6	2191.6	2210.7	2246.2	2287.1	2268.0	2240.7	2183.4	2014.2	2003.3	1626.6
20°	2270.8	2262.6	2295.3	2328.1	2379.9	2396.3	2388.1	2344.4	2175.2	2142.5	1730.4
22.5°	2401.8	2390.8	2420.9	2461.8	2524.6	2530.0	2535.5	2513.7	2339.0	2306.2	1839.5
25°	2710.2	2682.9	2655.6	2650.1	2674.7	2696.5	2680.2	2696.5	2524.6	2494.6	1956.9
27.5°	3310.6	3264.2	3133.2	2988.6	2887.6	2906.7	2854.8	2884.8	2737.5	2699.3	2066.1
30°	3886.5	3840.1	3733.7	3477.1	3245.1	3141.4	3065.0	3054.1	2955.8	2912.1	2191.6
32.5°	4287.7	4257.7	4186.7	4014.8	3725.5	3460.7	3313.3	3261.5	3247.8	3179.6	2352.6
35°	4560.6	4533.3	4484.2	4345.0	4132.1	3837.4	3583.5	3468.9	3572.6	3490.7	2535.5
37.5°	4724.4	4705.3	4650.7	4555.2	4440.5	4246.8	3919.2	3736.4	3900.1	3823.7	2770.2
40°	4844.5	4795.3	4757.1	4683.4	4645.2	4582.5	4301.3	4014.8	4254.9	4175.8	3002.2
42.5°	4855.4	4833.6	4803.5	4759.9	4765.3	4806.3	4708.0	4336.8	4612.5	4538.8	3247.8
45°	4852.7	4830.8	4809.0	4765.3	4792.6	4945.5	5035.5	4675.3	4961.8	4885.4	3507.1
47.5°	4773.5	4757.1	4762.6	4762.6	4798.1	5005.5	5289.3	5019.1	5311.2	5237.5	3821.0
50°	4495.1	4511.5	4620.7	4678.0	4740.8	5008.2	5466.7	5379.4	5687.8	5636.0	4123.9
52.5°	3613.6	3706.4	4148.5	4451.5	4634.3	4953.6	5581.4	5758.8	6165.4	6086.3	4467.8
55°	2762.0	2767.5	3193.3	3897.4	4424.2	4855.4	5646.9	6015.3	6528.4	6484.8	4770.8
57.5°	2240.7	2238.0	2448.2	3081.4	3878.3	4699.8	5663.3	6203.6	6913.3	6831.4	5120.1
60°	1831.3	1820.4	1946.0	2336.3	3168.7	4334.1	5603.2	6356.5	7309.0	7279.0	5485.8
62.5°	1323.7	1334.6	1501.1	1804.1	2442.7	3660.0	5474.9	6402.9	7786.6	7756.6	5895.2
65°	761.5	794.2	977.1	1299.1	1872.3	2863.0	5109.2	6367.4	8253.3	8250.6	6274.6
67.5°	382.1	384.8	483.1	726.0	1258.2	2142.5	4301.3	6143.6	8640.9	8580.8	6493.0
70°	245.6	251.1	283.8	373.9	696.0	1484.7	3286.1	5510.4	8398.0	8376.2	6173.6
72.5°	188.3	193.8	221.1	245.6	363.0	843.3	2224.4	4282.2	7011.5	6951.5	4814.4
75°	147.4	150.1	177.4	199.2	242.9	395.7	1116.3	2669.2	4517.0	4361.4	2740.2
77.5°	117.4	120.1	133.7	158.3	185.6	221.1	330.2	1200.9	1836.8	1640.3	889.7
80°	76.4	79.1	101.0	122.8	158.3	144.7	128.3	346.6	393.0	354.8	158.3
82.5°	43.7	46.4	68.2	98.3	120.1	81.9	73.7	101.0	92.8	90.1	49.1
85°	13.6	13.6	46.4	68.2	54.6	24.6	46.4	35.5	30.0	27.3	16.4
87.5°	2.7	2.7	21.8	24.6	8.2	2.7	5.5	8.2	10.9	13.6	8.2
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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1132.7	1078.1	977.1	889.7	805.1	731.4	679.6	633.2	600.4	592.3	578.6
5°	1140.8	1034.4	840.6	676.9	534.9	420.3	354.8	311.1	289.3	275.7	275.7
7.5°	1149.0	990.7	712.3	494.0	338.4	256.6	215.6	196.5	188.3	185.6	182.9
10°	1165.4	958.0	603.2	354.8	232.0	193.8	177.4	169.2	163.8	161.0	161.0
12.5°	1192.7	930.7	502.2	262.0	191.0	171.9	161.0	150.1	144.7	141.9	141.9
15°	1228.2	911.6	414.9	210.2	174.7	155.6	141.9	131.0	122.8	120.1	120.1
17.5°	1277.3	897.9	341.2	185.6	161.0	139.2	122.8	111.9	103.7	101.0	101.0
20°	1326.4	897.9	281.1	171.9	147.4	122.8	106.4	92.8	84.6	81.9	81.9
22.5°	1391.9	895.2	234.7	158.3	131.0	106.4	90.1	73.7	68.2	65.5	65.5
25°	1446.5	895.2	202.0	144.7	114.6	92.8	73.7	60.0	54.6	51.9	51.9
27.5°	1512.0	887.0	171.9	128.3	98.3	76.4	60.0	49.1	43.7	40.9	40.9
30°	1569.3	876.1	152.8	114.6	84.6	62.8	49.1	38.2	35.5	35.5	35.5
32.5°	1664.9	867.9	136.5	98.3	71.0	51.9	38.2	30.0	27.3	27.3	27.3
35°	1779.5	867.9	125.5	84.6	60.0	43.7	30.0	24.6	21.8	21.8	21.8
37.5°	1929.6	876.1	111.9	73.7	49.1	35.5	24.6	19.1	16.4	16.4	16.4
40°	2087.9	895.2	101.0	65.5	43.7	27.3	19.1	13.6	10.9	13.6	13.6
42.5°	2276.2	914.3	90.1	57.3	35.5	21.8	13.6	8.2	5.5	8.2	8.2
45°	2461.8	933.4	84.6	49.1	30.0	16.4	8.2	5.5	2.7	5.5	5.5
47.5°	2691.1	979.8	79.1	43.7	24.6	13.6	5.5	2.7	0.0	2.7	2.7
50°	2955.8	1031.7	71.0	35.5	19.1	10.9	5.5	0.0	0.0	0.0	0.0
52.5°	3209.6	1075.3	62.8	30.0	16.4	8.2	2.7	0.0	0.0	0.0	0.0
55°	3463.5	1102.6	54.6	24.6	13.6	8.2	2.7	0.0	0.0	0.0	0.0
57.5°	3736.4	1119.0	49.1	21.8	10.9	5.5	2.7	0.0	0.0	0.0	0.0
60°	4039.3	1119.0	40.9	19.1	8.2	5.5	2.7	0.0	0.0	0.0	0.0
62.5°	4375.0	1086.3	38.2	16.4	8.2	5.5	2.7	0.0	0.0	0.0	0.0
65°	4648.0	968.9	32.8	13.6	8.2	5.5	2.7	0.0	0.0	0.0	0.0
67.5°	4658.9	766.9	30.0	10.9	8.2	5.5	2.7	0.0	0.0	0.0	0.0
70°	4154.0	524.0	24.6	8.2	5.5	5.5	2.7	0.0	0.0	0.0	0.0
72.5°	3108.6	281.1	21.8	8.2	5.5	2.7	2.7	0.0	0.0	0.0	0.0
75°	1675.8	109.2	13.6	8.2	5.5	2.7	2.7	0.0	0.0	0.0	0.0
77.5°	488.5	54.6	8.2	5.5	5.5	2.7	2.7	0.0	0.0	0.0	0.0
80°	90.1	27.3	5.5	5.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	24.6	10.9	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	10.9	5.5	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	2.7	2.7	2.7	2.7	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)