

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: P595417

Luminaire Tested: **IST-PA1F-830-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595417  
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-830-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 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: 6309 lumens  
Efficiency: N/A  
Efficacy: 67.5 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

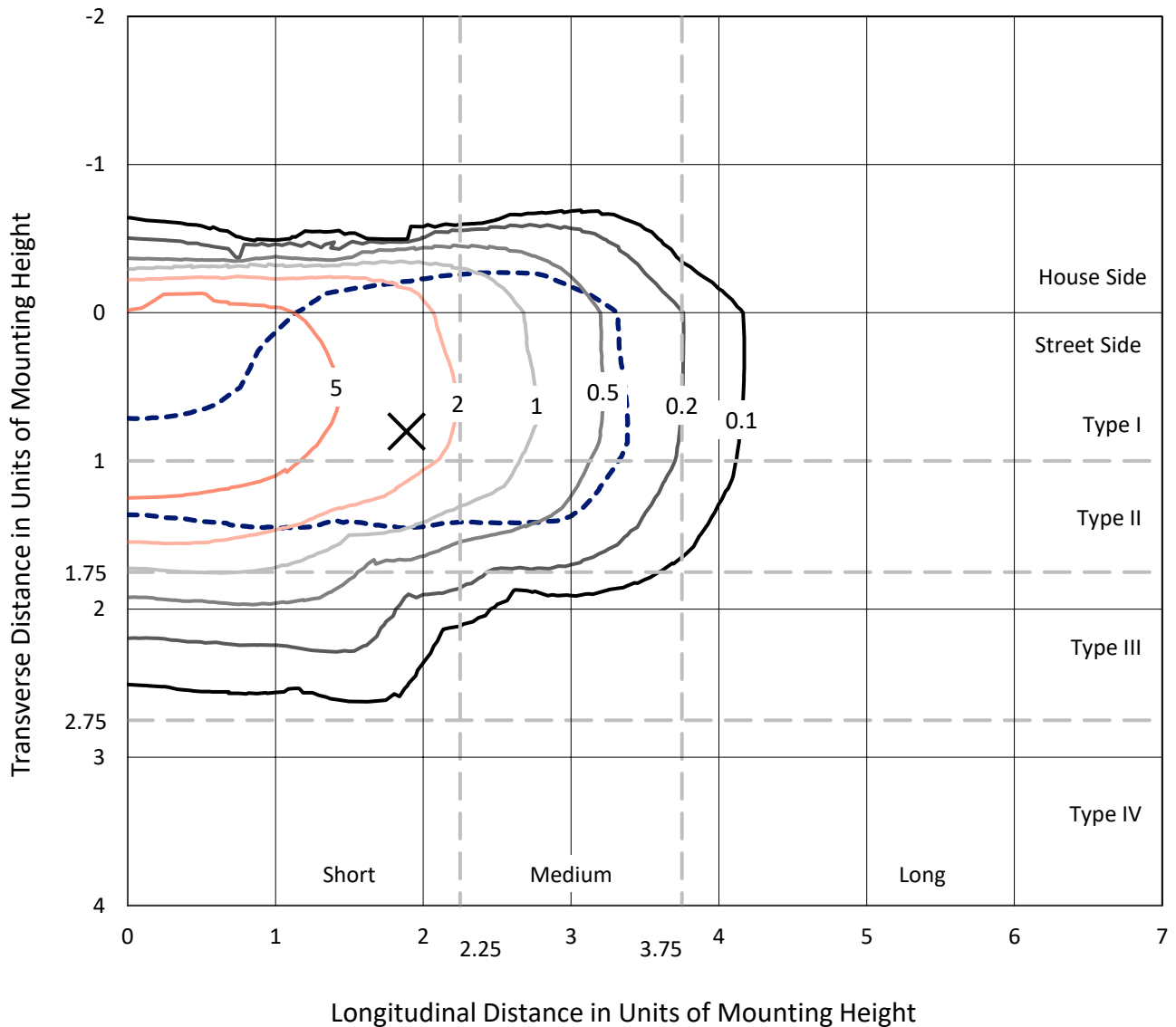
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

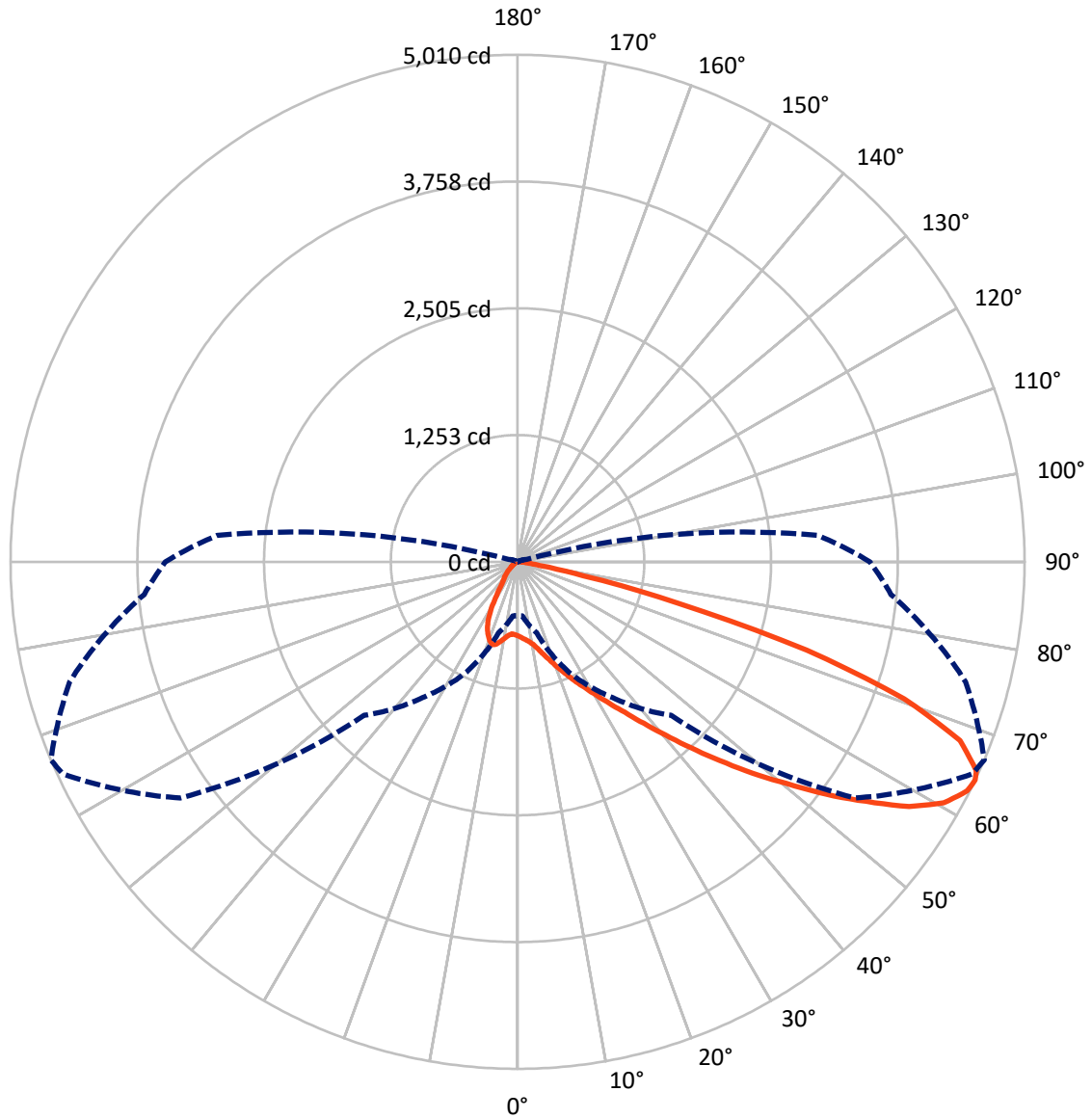
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.7 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	807.1	0.0	807.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5501.9	0.0	5501.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6309.0	0.0	6309.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	1.1
10°-20°	205.3	3.3
20°-30°	372.4	5.9
30°-40°	713.4	11.3
40°-50°	1314.8	20.8
50°-60°	1698.2	26.9
60°-70°	1391.0	22.0
70°-80°	511.3	8.1
80°-90°	33.0	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°	6309.0	100.0
0°-180°	6309.0	100.0

**Coefficient of Utilization**

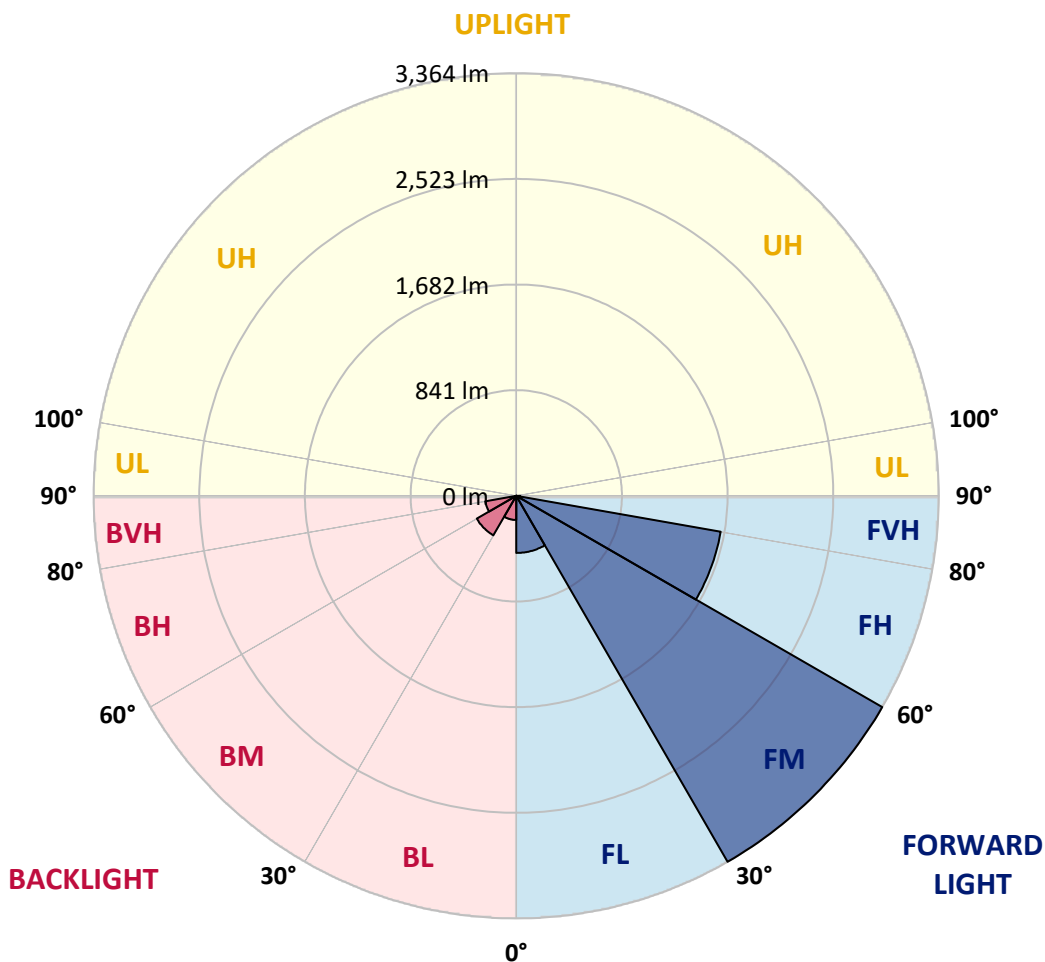


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.9	7.2			
FM (30°-60°)	3363.6	53.3			
FH (60°-80°)	1652.0	26.2			G1/1800
FVH (80°-90°)	31.5	0.5			G1/100
BL (0°-30°)	192.3	3.0	B1/500		
BM (30°-60°)	362.9	5.8	B1/1000		
BH (60°-80°)	250.4	4.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	759.1	759.1	763.4	761.3	761.3	756.9	750.4	752.6	750.4	748.3	741.8
5°	746.1	748.3	750.4	754.8	763.4	767.8	767.8	769.9	769.9	767.8	759.1
7.5°	739.6	743.9	748.3	752.6	763.4	769.9	780.8	793.8	793.8	796.0	787.3
10°	763.4	767.8	774.3	780.8	791.6	802.5	811.2	826.3	826.3	830.7	828.5
12.5°	813.3	813.3	815.5	819.8	835.0	848.0	863.2	876.2	878.4	880.6	874.1
15°	874.1	874.1	876.2	876.2	884.9	904.4	932.6	945.6	943.5	941.3	928.3
17.5°	943.5	943.5	943.5	945.6	950.0	960.8	993.3	1019.4	1017.2	1015.0	989.0
20°	1008.5	1012.9	1017.2	1019.4	1023.7	1032.4	1067.1	1097.4	1103.9	1095.3	1049.7
22.5°	1082.3	1084.4	1086.6	1093.1	1103.9	1108.3	1143.0	1188.5	1195.0	1184.2	1123.5
25°	1156.0	1160.3	1166.8	1175.5	1186.4	1208.1	1231.9	1292.6	1299.1	1286.1	1203.7
27.5°	1318.7	1316.5	1297.0	1281.8	1284.0	1299.1	1331.7	1396.7	1403.3	1390.2	1284.0
30°	1596.3	1570.3	1533.4	1466.1	1401.1	1407.6	1453.1	1516.0	1526.9	1509.5	1372.9
32.5°	1991.0	1965.0	1873.9	1726.4	1583.3	1535.6	1594.1	1654.8	1667.9	1648.3	1477.0
35°	2374.9	2368.4	2281.6	2103.8	1860.9	1728.6	1743.8	1821.8	1826.2	1802.3	1607.1
37.5°	2849.9	2826.0	2706.7	2507.2	2220.9	1984.5	1941.1	2014.9	2025.7	1997.5	1765.5
40°	3164.4	3155.7	3084.1	2943.1	2635.2	2338.0	2181.9	2253.4	2251.3	2210.1	1947.6
42.5°	3346.6	3350.9	3346.6	3279.3	3103.6	2763.1	2500.7	2505.0	2511.5	2468.2	2158.0
45°	3470.2	3470.2	3476.7	3530.9	3463.7	3270.6	2888.9	2791.3	2800.0	2732.8	2377.1
47.5°	3468.0	3481.0	3515.7	3641.5	3732.6	3743.5	3374.7	3125.3	3121.0	3019.1	2602.6
50°	3233.8	3225.1	3368.2	3650.2	3923.5	4133.8	3834.5	3478.9	3442.0	3316.2	2836.9
52.5°	2706.7	2734.9	2973.5	3387.8	3969.0	4398.4	4231.4	3864.9	3817.2	3611.2	3042.9
55°	2246.9	2277.3	2509.4	2914.9	3721.8	4491.7	4498.2	4274.8	4179.4	3867.1	3255.5
57.5°	1687.4	1745.9	2088.6	2470.3	3179.5	4259.6	4593.6	4667.4	4563.3	4114.3	3429.0
60°	1077.9	1112.6	1496.5	1967.2	2576.6	3652.4	4574.1	4895.1	4838.7	4339.9	3574.3
62.5°	704.9	724.4	989.0	1481.3	1962.8	2752.3	4342.1	4986.2	4986.2	4491.7	3682.7
64°	531.4	535.7	724.4	1203.7	1637.5	2145.0	4068.8	4958.0	5010.1	4582.8	3704.4
65°	420.8	422.9	566.1	999.8	1470.5	1758.9	3830.2	4897.3	4981.9	4617.5	3717.4
67.5°	295.0	301.5	366.5	576.9	1054.1	1015.0	2839.0	4611.0	4715.1	4628.3	3700.1
70°	255.9	264.6	308.0	377.4	752.6	589.9	1509.5	3930.0	4053.6	4311.7	3444.1
72.5°	195.2	206.0	258.1	318.8	529.2	399.1	583.4	2791.3	2986.5	3333.5	2843.4
75°	141.0	145.3	190.9	260.3	370.9	308.0	251.6	1440.1	1637.5	1967.2	1767.6
77.5°	88.9	95.4	130.1	195.2	331.8	234.2	149.7	524.9	661.5	856.7	772.1
80°	52.1	54.2	78.1	134.5	223.4	173.5	95.4	186.5	225.6	318.8	206.0
82.5°	30.4	32.5	49.9	91.1	145.3	134.5	60.7	95.4	106.3	121.5	43.4
85°	10.8	10.8	34.7	54.2	78.1	67.2	34.7	49.9	54.2	67.2	13.0
87.5°	2.2	2.2	17.4	28.2	28.2	10.8	17.4	21.7	26.0	36.9	4.3
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°	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1	733.1
2.5°	739.6	733.1	726.6	717.9	711.4	698.4	691.9	683.2	681.0	676.7	674.5
5°	756.9	746.1	730.9	709.2	696.2	676.7	663.7	650.7	648.5	644.2	642.0
7.5°	780.8	769.9	750.4	726.6	704.9	685.4	670.2	650.7	631.1	616.0	616.0
10°	819.8	806.8	780.8	759.1	733.1	691.9	620.3	555.2	514.0	488.0	479.3
12.5°	867.5	850.2	822.0	796.0	746.1	616.0	505.3	420.8	351.4	318.8	312.3
15°	917.4	902.2	874.1	835.0	685.4	514.0	368.7	238.6	171.3	141.0	145.3
17.5°	971.6	950.0	917.4	839.3	602.9	383.9	197.4	121.5	104.1	99.8	99.8
20°	1028.0	999.8	967.3	791.6	496.7	221.2	112.8	91.1	84.6	78.1	80.2
22.5°	1088.8	1054.1	1004.2	720.1	355.7	119.3	86.8	73.7	65.1	62.9	62.9
25°	1153.8	1103.9	1041.1	637.6	206.0	91.1	71.6	58.6	52.1	49.9	47.7
27.5°	1223.2	1160.3	1049.7	529.2	117.1	75.9	56.4	45.5	39.0	36.9	36.9
30°	1286.1	1216.7	1030.2	392.6	88.9	62.9	45.5	34.7	30.4	30.4	30.4
32.5°	1370.7	1279.6	969.5	245.1	71.6	49.9	34.7	28.2	23.9	23.9	23.9
35°	1481.3	1372.9	908.8	130.1	58.6	41.2	28.2	21.7	19.5	19.5	19.5
37.5°	1633.2	1496.5	854.5	82.4	47.7	32.5	21.7	17.4	15.2	15.2	15.2
40°	1789.3	1644.0	778.6	62.9	39.0	26.0	17.4	13.0	10.8	10.8	13.0
42.5°	1984.5	1815.3	691.9	54.2	32.5	21.7	13.0	8.7	6.5	8.7	8.7
45°	2181.9	1995.4	570.4	45.5	28.2	17.4	8.7	4.3	4.3	6.5	6.5
47.5°	2385.7	2186.2	442.4	39.0	23.9	13.0	6.5	2.2	2.2	4.3	4.3
50°	2596.1	2374.9	329.7	34.7	19.5	10.8	4.3	2.2	0.0	2.2	2.2
52.5°	2806.5	2557.1	255.9	30.4	17.4	8.7	2.2	0.0	0.0	0.0	2.2
55°	3001.7	2721.9	203.9	26.0	15.2	6.5	2.2	0.0	0.0	0.0	0.0
57.5°	3166.5	2843.4	162.7	23.9	13.0	4.3	2.2	0.0	0.0	0.0	0.0
60°	3322.7	2938.8	125.8	19.5	10.8	4.3	2.2	0.0	0.0	0.0	0.0
62.5°	3433.3	2975.7	101.9	17.4	8.7	4.3	0.0	0.0	0.0	0.0	0.0
64°	3481.0	2980.0	88.9	15.2	8.7	4.3	2.2	0.0	0.0	0.0	0.0
65°	3509.2	2967.0	82.4	15.2	8.7	4.3	2.2	0.0	0.0	0.0	0.0
67.5°	3515.7	2895.4	62.9	13.0	6.5	2.2	2.2	0.0	0.0	0.0	0.0
70°	3324.9	2646.0	45.5	8.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	2778.3	2021.4	30.4	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	1735.1	874.1	17.4	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	717.9	264.6	10.8	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
80°	164.8	62.9	4.3	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	39.0	10.8	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	8.7	2.2	2.2	2.2	2.2	0.0	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)