

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: P595194

Luminaire Tested: **IST-PA1D-727-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1D-727-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5070 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.4  
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

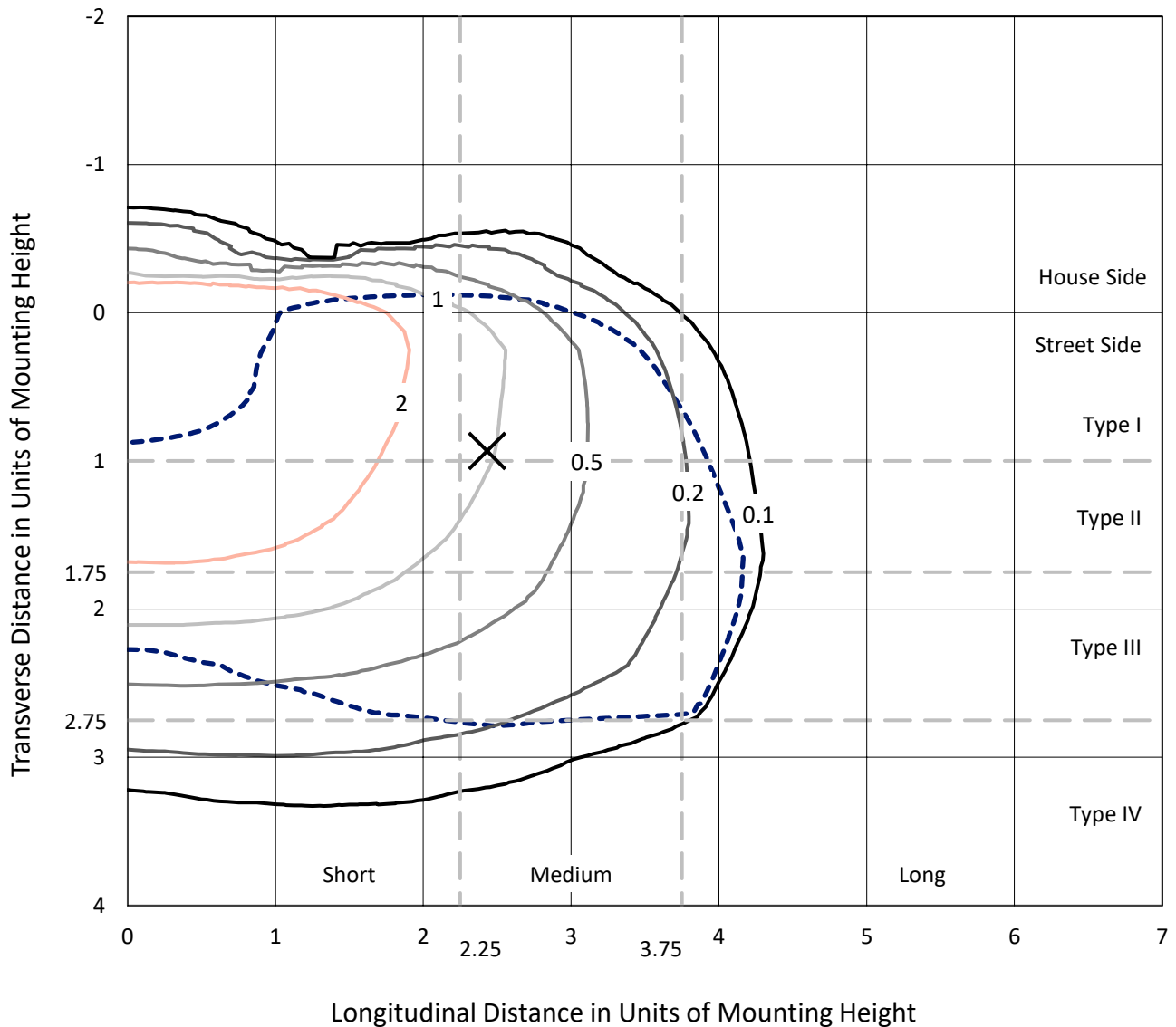




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### Iso-Footcandle Lines of Horizontal Illumination

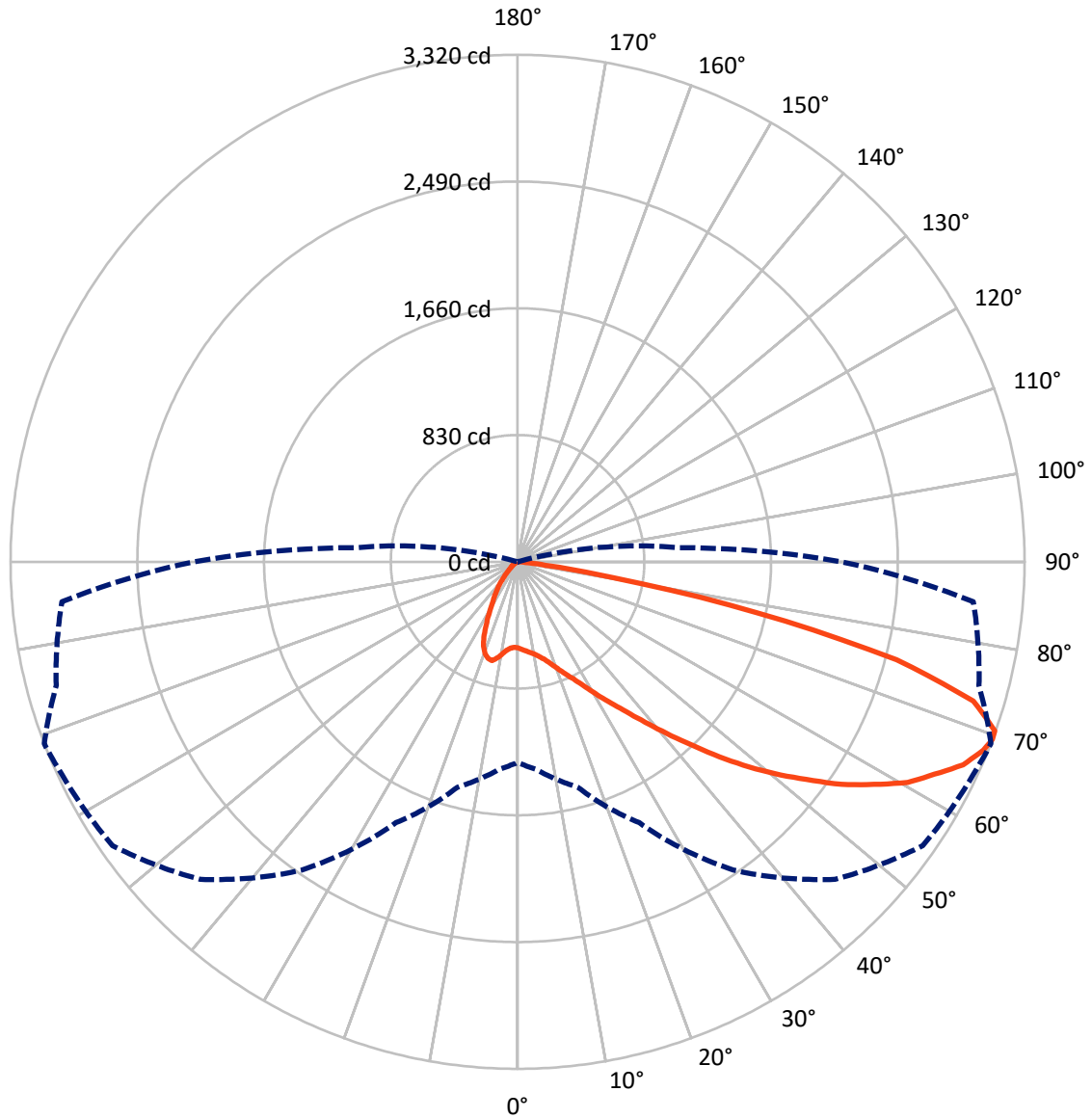
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	494.0	0.0	494.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	4576.0	0.0	4576.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	5070.0	0.0	5070.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	1.1
10°-20°	142.3	2.8
20°-30°	236.9	4.7
30°-40°	426.5	8.4
40°-50°	773.3	15.3
50°-60°	1208.5	23.8
60°-70°	1398.1	27.6
70°-80°	781.9	15.4
80°-90°	48.8	1.0
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°	5070.0	100.0
0°-180°	5070.0	100.0

**Coefficient of Utilization**

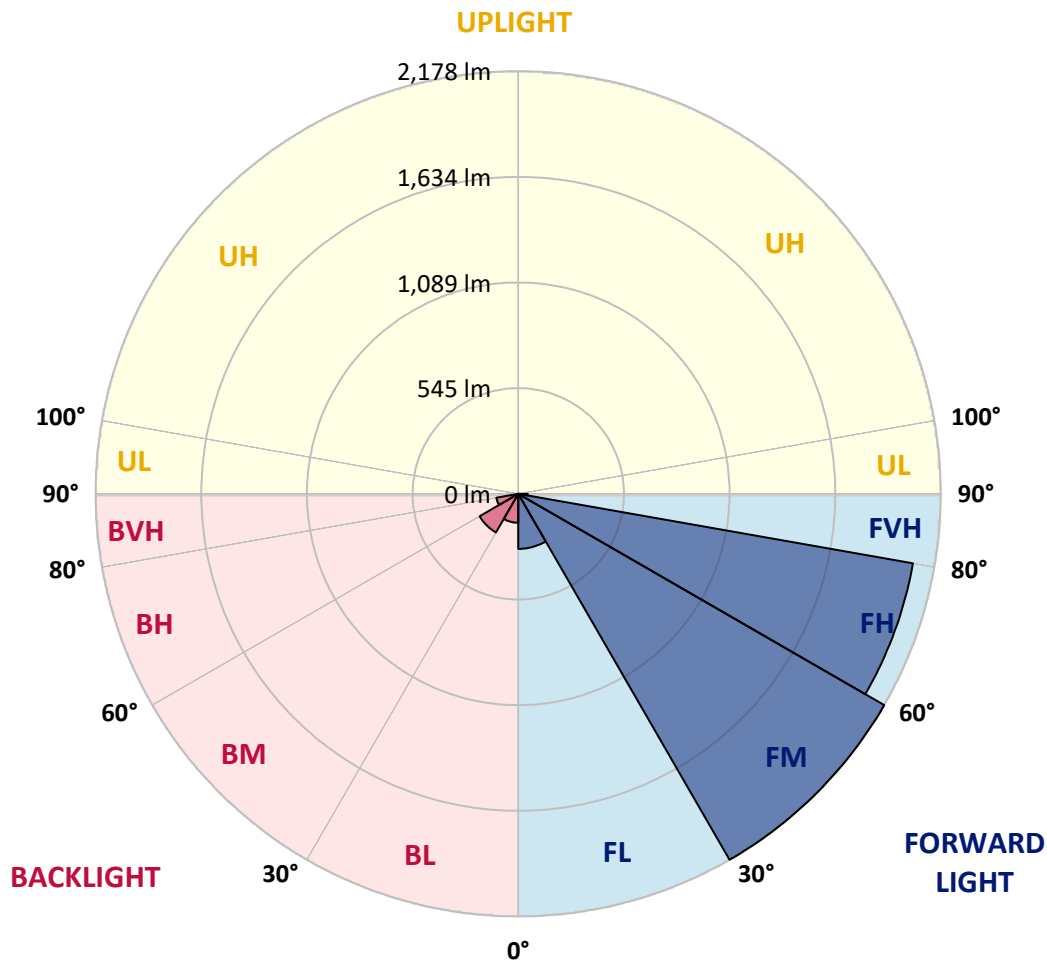


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.6	5.6			
FM (30°-60°)	2178.2	43.0			
FH (60°-80°)	2065.6	40.7			G2/5000
FVH (80°-90°)	48.5	1.0			G1/100
BL (0°-30°)	149.3	2.9	B1/500		
BM (30°-60°)	230.0	4.5	B1/1000		
BH (60°-80°)	114.4	2.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
2.5°	584.2	584.2	584.2	580.8	582.5	580.8	579.2	574.1	575.8	574.1	569.0
5°	564.0	565.6	570.7	574.1	582.5	585.9	587.6	587.6	585.9	582.5	579.2
7.5°	525.1	525.1	530.2	540.3	557.2	575.8	591.0	599.4	601.1	601.1	596.0
10°	515.0	515.0	521.7	528.5	545.4	567.3	591.0	611.2	614.6	618.0	616.3
12.5°	509.9	511.6	518.4	530.2	552.1	572.4	597.7	626.4	636.6	645.0	646.7
15°	516.7	516.7	523.4	535.3	560.6	589.3	621.4	653.4	663.6	675.4	683.8
17.5°	526.8	530.2	533.6	545.4	569.0	604.5	646.7	688.9	700.7	715.9	722.7
20°	543.7	543.7	547.1	557.2	582.5	624.7	683.8	734.5	744.6	754.8	763.2
22.5°	564.0	565.6	565.6	574.1	602.8	648.4	715.9	778.4	795.3	800.3	803.7
25°	624.7	621.4	609.5	604.5	626.4	675.4	754.8	830.7	849.3	854.4	847.6
27.5°	751.4	737.9	705.8	672.0	668.6	717.6	807.1	896.6	916.9	918.5	894.9
30°	910.1	911.8	859.4	786.8	737.9	763.2	864.5	979.3	999.6	991.1	954.0
32.5°	1106.0	1097.5	1058.7	954.0	856.1	834.1	927.0	1065.4	1089.1	1075.6	1026.6
35°	1273.1	1278.2	1230.9	1138.0	1014.8	943.9	1003.0	1161.7	1190.4	1166.7	1106.0
37.5°	1413.3	1420.0	1391.3	1315.3	1205.6	1094.1	1102.6	1274.8	1313.6	1290.0	1214.0
40°	1568.6	1573.7	1561.9	1479.1	1381.2	1273.1	1236.0	1404.8	1457.2	1425.1	1345.7
42.5°	1739.1	1757.7	1737.5	1671.6	1570.3	1477.4	1421.7	1563.5	1615.9	1595.6	1489.2
45°	1972.2	1973.8	1950.2	1884.4	1779.7	1703.7	1636.1	1732.4	1799.9	1774.6	1649.7
47.5°	2144.4	2156.2	2142.7	2097.1	2012.7	1962.0	1869.2	1918.1	1989.0	1957.0	1815.1
50°	2276.1	2308.2	2296.3	2309.9	2267.6	2245.7	2103.9	2110.6	2179.8	2152.8	1984.0
52.5°	2348.7	2389.2	2392.6	2461.8	2497.3	2551.3	2331.8	2321.7	2365.6	2341.9	2156.2
55°	2338.6	2348.7	2433.1	2559.8	2698.2	2821.5	2554.7	2512.5	2573.3	2507.4	2338.6
57.5°	2240.6	2266.0	2414.5	2571.6	2816.4	2995.4	2747.2	2699.9	2750.6	2662.7	2526.0
60°	2100.5	2137.6	2328.4	2553.0	2885.6	3100.1	2934.6	2887.3	2932.9	2826.5	2738.7
62.5°	1973.8	1990.7	2166.3	2475.3	2845.1	3095.0	3079.8	3035.9	3062.9	2951.5	2921.1
65°	1793.2	1799.9	1973.8	2335.2	2755.6	3061.2	3159.2	3176.1	3204.8	3056.2	3051.1
67.5°	1514.6	1529.8	1702.0	2090.4	2607.0	2995.4	3221.6	3255.4	3289.2	3111.9	3074.7
69°	1313.6	1362.6	1528.1	1884.4	2463.5	2939.7	3238.5	3292.6	3319.6	3127.1	2995.4
70°	1149.9	1192.1	1382.9	1725.6	2336.9	2877.2	3250.3	3287.5	3314.5	3095.0	2865.4
72.5°	577.5	631.5	893.2	1259.6	1857.3	2591.8	3189.6	3149.0	3120.3	2846.8	2318.3
75°	222.9	231.3	383.3	717.6	1161.7	1902.9	2723.5	2647.6	2563.1	2159.6	1374.4
77.5°	123.3	121.6	167.2	317.4	494.7	930.4	1842.1	1720.6	1604.1	1160.0	557.2
80°	52.3	55.7	72.6	152.0	260.0	322.5	894.9	795.3	633.2	368.1	133.4
82.5°	32.1	33.8	50.7	92.9	180.7	123.3	290.4	248.2	182.4	99.6	32.1
85°	10.1	11.8	35.5	62.5	87.8	50.7	65.9	57.4	50.7	42.2	10.1
87.5°	1.7	1.7	13.5	33.8	23.6	8.4	6.8	11.8	18.6	20.3	3.4
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°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
2.5°	567.3	564.0	560.6	558.9	558.9	555.5	553.8	552.1	552.1	550.4	550.4
5°	574.1	570.7	567.3	565.6	562.3	560.6	560.6	560.6	558.9	560.6	562.3
7.5°	591.0	585.9	584.2	582.5	582.5	577.5	569.0	547.1	525.1	518.4	511.6
10°	614.6	612.9	612.9	612.9	601.1	557.2	496.4	442.4	413.7	390.0	390.0
12.5°	648.4	648.4	646.7	641.6	580.8	474.5	379.9	298.9	251.6	224.6	227.9
15°	685.5	683.8	687.2	655.1	511.6	366.4	229.6	162.1	136.8	133.4	133.4
17.5°	724.4	727.7	724.4	619.7	420.4	226.3	136.8	123.3	119.9	119.9	119.9
20°	764.9	761.5	756.4	558.9	305.6	141.8	118.2	114.8	111.4	109.8	109.8
22.5°	805.4	802.0	768.3	481.2	190.8	116.5	111.4	104.7	99.6	97.9	97.9
25°	844.2	844.2	746.3	381.6	130.0	109.8	101.3	94.6	89.5	84.4	84.4
27.5°	893.2	896.6	710.9	266.8	109.8	101.3	91.2	81.0	74.3	70.9	70.9
30°	948.9	954.0	653.4	173.9	99.6	89.5	79.4	67.5	57.4	54.0	52.3
32.5°	1014.8	1019.8	587.6	114.8	89.5	77.7	65.9	50.7	40.5	38.8	37.1
35°	1099.2	1087.4	508.2	91.2	77.7	65.9	50.7	35.5	28.7	27.0	27.0
37.5°	1203.9	1178.6	417.1	79.4	65.9	52.3	37.1	23.6	18.6	18.6	16.9
40°	1323.8	1252.9	322.5	70.9	55.7	40.5	23.6	15.2	11.8	11.8	11.8
42.5°	1455.5	1315.3	229.6	62.5	45.6	28.7	15.2	8.4	6.8	6.8	6.8
45°	1607.4	1372.7	157.0	54.0	38.8	20.3	8.4	3.4	3.4	3.4	3.4
47.5°	1759.4	1409.9	104.7	47.3	28.7	11.8	5.1	1.7	1.7	1.7	1.7
50°	1913.1	1438.6	81.0	40.5	20.3	6.8	1.7	0.0	0.0	0.0	0.0
52.5°	2049.8	1458.9	65.9	33.8	13.5	5.1	1.7	0.0	0.0	0.0	0.0
55°	2168.0	1460.5	57.4	27.0	10.1	3.4	0.0	0.0	0.0	0.0	0.0
57.5°	2287.9	1447.0	49.0	20.3	6.8	1.7	0.0	0.0	0.0	0.0	0.0
60°	2360.5	1411.6	38.8	15.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0
62.5°	2404.4	1352.5	30.4	10.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
65°	2379.1	1278.2	22.0	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
67.5°	2260.9	1163.4	15.2	5.1	1.7	1.7	0.0	0.0	0.0	0.0	0.0
69°	2120.7	1058.7	13.5	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
70°	1997.5	977.6	11.8	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1487.6	629.8	10.1	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0
75°	835.8	211.1	6.8	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	314.1	54.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.2	13.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	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)