

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: P595109

Luminaire Tested: **IST-PA1C-727-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595109  
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-PA1C-727-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 615mA 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: 4519 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 48.3  
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

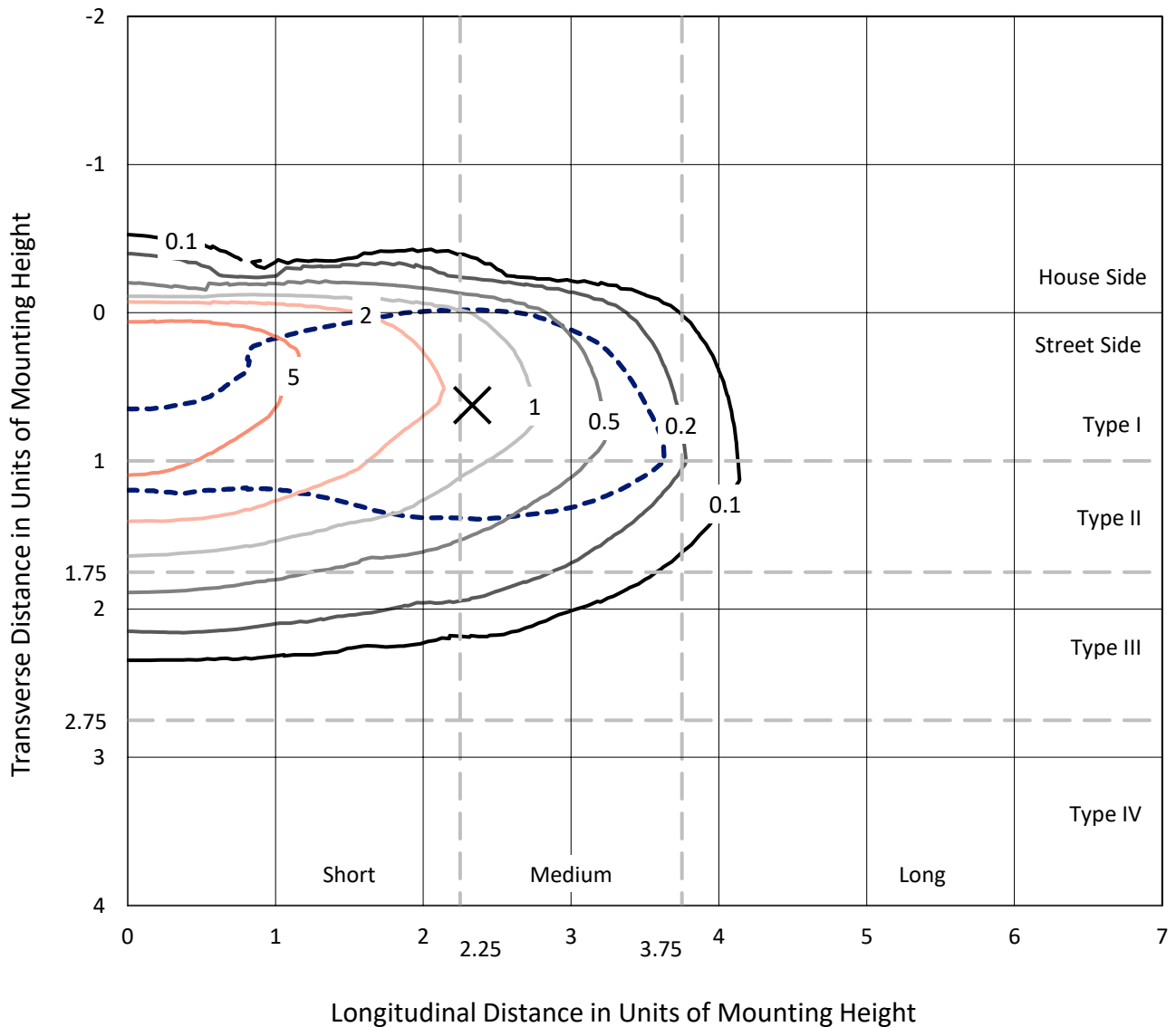




REPORT NUMBER: P595109  
 CATALOG NUMBER: IST-PA1C-727-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

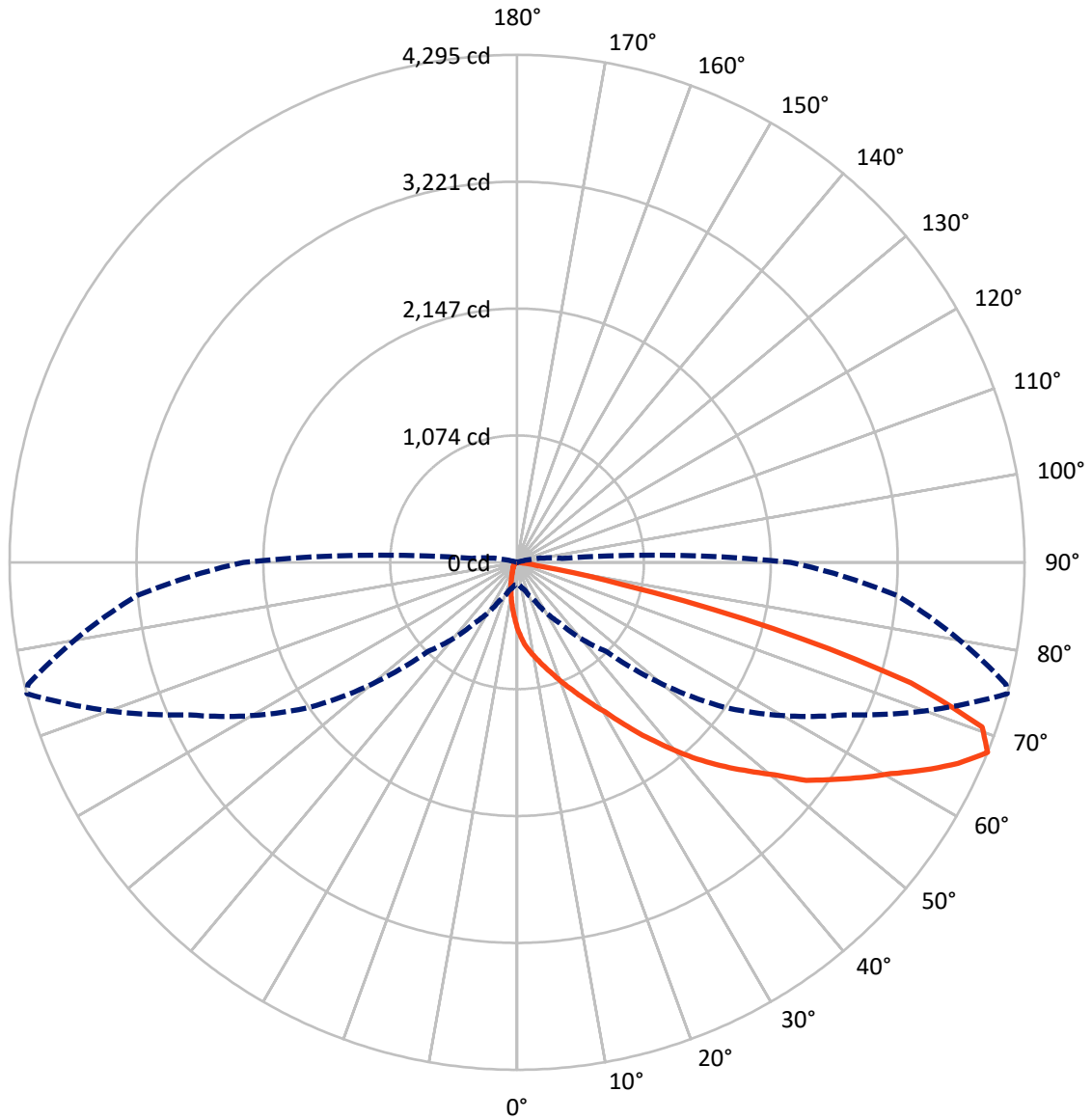
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P595109  
CATALOG NUMBER: IST-PA1C-727-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P595109  
 CATALOG NUMBER: IST-PA1C-727-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	227.8	0.0	227.8
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	4291.2	0.0	4291.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	4519.0	0.0	4519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	1.1
10°-20°	163.5	3.6
20°-30°	328.6	7.3
30°-40°	621.5	13.8
40°-50°	929.8	20.6
50°-60°	1073.5	23.8
60°-70°	951.6	21.1
70°-80°	384.6	8.5
80°-90°	15.4	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°	4519.0	100.0
0°-180°	4519.0	100.0

**Coefficient of Utilization**

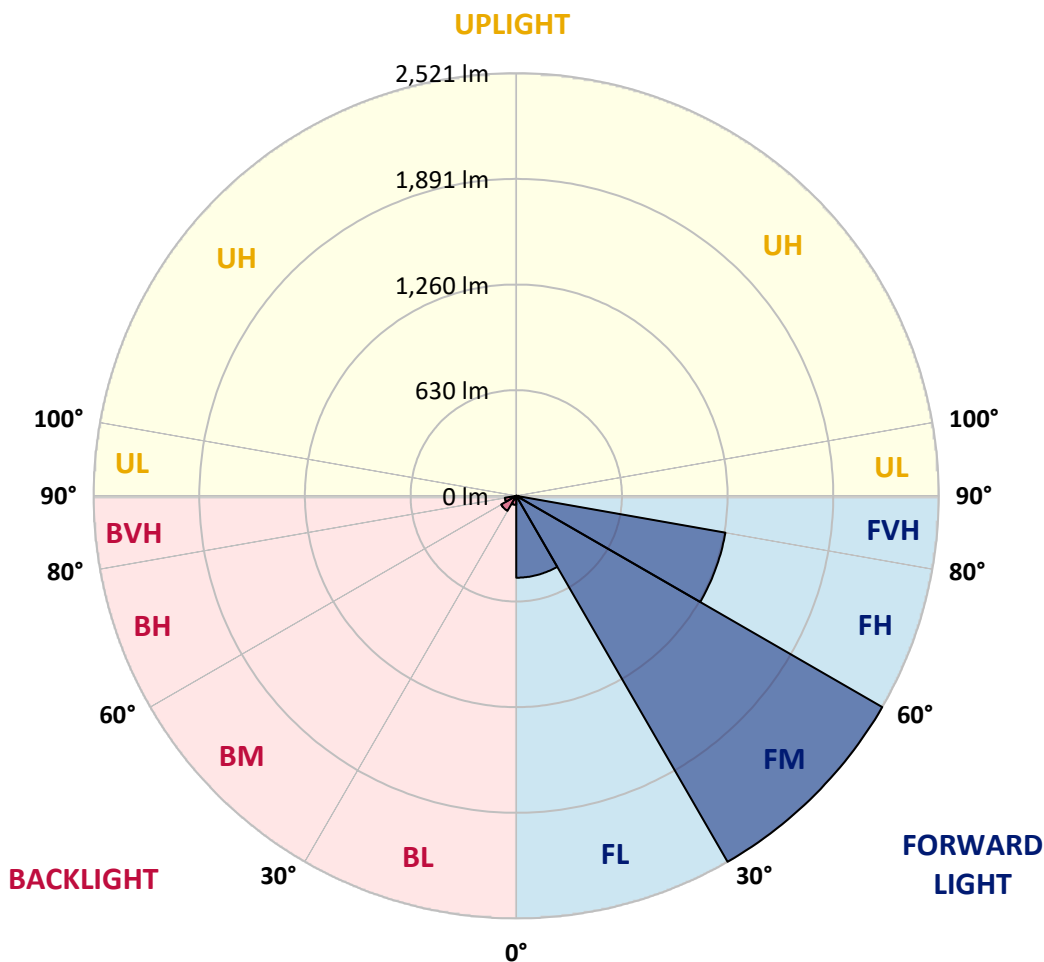


REPORT NUMBER: P595109  
 CATALOG NUMBER: IST-PA1C-727-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.6	10.8			
FM (30°-60°)	2520.9	55.8			
FH (60°-80°)	1267.1	28.0			G1/1800
FVH (80°-90°)	14.7	0.3			G1/100
BL (0°-30°)	54.2	1.2	B0/110		
BM (30°-60°)	103.9	2.3	B0/220		
BH (60°-80°)	69.1	1.5	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





REPORT NUMBER: P595109  
 CATALOG NUMBER: IST-PA1C-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6
2.5°	781.4	784.1	778.7	766.4	755.6	729.8	709.5	672.8	633.5	633.5	586.0
5°	873.6	870.9	868.2	858.7	850.5	828.8	801.7	762.4	701.3	695.9	617.2
7.5°	918.4	915.7	910.2	906.2	906.2	891.2	865.5	824.8	756.9	751.5	645.7
10°	971.3	965.9	965.9	955.0	952.3	934.7	921.1	885.8	811.2	804.4	678.3
12.5°	1033.7	1028.3	1029.6	1020.1	1016.0	997.1	978.1	944.1	869.5	862.8	716.2
15°	1068.9	1066.2	1074.4	1075.7	1078.4	1062.2	1044.5	1009.3	934.7	925.2	761.0
17.5°	1089.3	1089.3	1098.8	1116.4	1136.8	1127.3	1113.7	1085.2	1001.1	995.7	808.5
20°	1128.6	1124.6	1140.8	1157.1	1182.9	1191.0	1187.0	1165.3	1081.2	1064.9	860.0
22.5°	1193.7	1188.3	1203.2	1223.6	1254.8	1257.5	1260.2	1249.4	1162.5	1146.3	914.3
25°	1347.0	1333.5	1319.9	1317.2	1329.4	1340.3	1332.1	1340.3	1254.8	1239.9	972.6
27.5°	1645.5	1622.4	1557.3	1485.4	1435.2	1444.7	1418.9	1433.9	1360.6	1341.6	1026.9
30°	1931.7	1908.6	1855.7	1728.2	1612.9	1561.4	1523.4	1518.0	1469.1	1447.4	1089.3
32.5°	2131.1	2116.2	2080.9	1995.5	1851.7	1720.1	1646.8	1621.1	1614.3	1580.4	1169.3
35°	2266.8	2253.2	2228.8	2159.6	2053.8	1907.3	1781.1	1724.2	1775.7	1735.0	1260.2
37.5°	2348.2	2338.7	2311.5	2264.1	2207.1	2110.8	1948.0	1857.1	1938.5	1900.5	1376.9
40°	2407.8	2383.4	2364.4	2327.8	2308.8	2277.6	2137.9	1995.5	2114.8	2075.5	1492.2
42.5°	2413.3	2402.4	2387.5	2365.8	2368.5	2388.9	2340.0	2155.5	2292.5	2255.9	1614.3
45°	2411.9	2401.1	2390.2	2368.5	2382.1	2458.0	2502.8	2323.7	2466.2	2428.2	1743.1
47.5°	2372.6	2364.4	2367.2	2367.2	2384.8	2487.9	2629.0	2494.7	2639.8	2603.2	1899.1
50°	2234.2	2242.4	2296.6	2325.1	2356.3	2489.2	2717.1	2673.7	2827.0	2801.2	2049.7
52.5°	1796.1	1842.2	2061.9	2212.5	2303.4	2462.1	2774.1	2862.3	3064.4	3025.1	2220.6
55°	1372.8	1375.5	1587.1	1937.1	2198.9	2413.3	2806.7	2989.8	3244.8	3223.1	2371.2
57.5°	1113.7	1112.4	1216.8	1531.5	1927.6	2336.0	2814.8	3083.4	3436.1	3395.4	2544.9
60°	910.2	904.8	967.2	1161.2	1574.9	2154.2	2785.0	3159.4	3632.8	3617.9	2726.6
62.5°	657.9	663.3	746.1	896.7	1214.1	1819.1	2721.2	3182.4	3870.2	3855.3	2930.1
65°	378.5	394.8	485.6	645.7	930.6	1423.0	2539.4	3164.8	4102.2	4100.8	3118.7
67.5°	189.9	191.3	240.1	360.8	625.4	1064.9	2137.9	3053.6	4294.8	4264.9	3227.2
70°	122.1	124.8	141.1	185.8	345.9	738.0	1633.3	2738.8	4174.1	4163.2	3068.5
72.5°	93.6	96.3	109.9	122.1	180.4	419.2	1105.6	2128.4	3484.9	3455.1	2392.9
75°	73.3	74.6	88.2	99.0	120.7	196.7	554.8	1326.7	2245.1	2167.7	1362.0
77.5°	58.3	59.7	66.5	78.7	92.2	109.9	164.1	596.9	912.9	815.3	442.2
80°	38.0	39.3	50.2	61.0	78.7	71.9	63.8	172.3	195.3	176.3	78.7
82.5°	21.7	23.1	33.9	48.8	59.7	40.7	36.6	50.2	46.1	44.8	24.4
85°	6.8	6.8	23.1	33.9	27.1	12.2	23.1	17.6	14.9	13.6	8.1
87.5°	1.4	1.4	10.9	12.2	4.1	1.4	2.7	4.1	5.4	6.8	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595109  
 CATALOG NUMBER: IST-PA1C-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6
2.5°	563.0	535.8	485.6	442.2	400.2	363.6	337.8	314.7	298.4	294.4	287.6
5°	567.0	514.1	417.8	336.4	265.9	208.9	176.3	154.6	143.8	137.0	137.0
7.5°	571.1	492.4	354.1	245.5	168.2	127.5	107.2	97.7	93.6	92.2	90.9
10°	579.2	476.1	299.8	176.3	115.3	96.3	88.2	84.1	81.4	80.0	80.0
12.5°	592.8	462.6	249.6	130.2	95.0	85.5	80.0	74.6	71.9	70.5	70.5
15°	610.4	453.1	206.2	104.5	86.8	77.3	70.5	65.1	61.0	59.7	59.7
17.5°	634.9	446.3	169.6	92.2	80.0	69.2	61.0	55.6	51.5	50.2	50.2
20°	659.3	446.3	139.7	85.5	73.3	61.0	52.9	46.1	42.1	40.7	40.7
22.5°	691.8	444.9	116.7	78.7	65.1	52.9	44.8	36.6	33.9	32.6	32.6
25°	719.0	444.9	100.4	71.9	57.0	46.1	36.6	29.8	27.1	25.8	25.8
27.5°	751.5	440.9	85.5	63.8	48.8	38.0	29.8	24.4	21.7	20.3	20.3
30°	780.0	435.4	76.0	57.0	42.1	31.2	24.4	19.0	17.6	17.6	17.6
32.5°	827.5	431.4	67.8	48.8	35.3	25.8	19.0	14.9	13.6	13.6	13.6
35°	884.5	431.4	62.4	42.1	29.8	21.7	14.9	12.2	10.9	10.9	10.9
37.5°	959.1	435.4	55.6	36.6	24.4	17.6	12.2	9.5	8.1	8.1	8.1
40°	1037.7	444.9	50.2	32.6	21.7	13.6	9.5	6.8	5.4	6.8	6.8
42.5°	1131.3	454.4	44.8	28.5	17.6	10.9	6.8	4.1	2.7	4.1	4.1
45°	1223.6	463.9	42.1	24.4	14.9	8.1	4.1	2.7	1.4	2.7	2.7
47.5°	1337.5	487.0	39.3	21.7	12.2	6.8	2.7	1.4	0.0	1.4	1.4
50°	1469.1	512.8	35.3	17.6	9.5	5.4	2.7	0.0	0.0	0.0	0.0
52.5°	1595.3	534.5	31.2	14.9	8.1	4.1	1.4	0.0	0.0	0.0	0.0
55°	1721.4	548.0	27.1	12.2	6.8	4.1	1.4	0.0	0.0	0.0	0.0
57.5°	1857.1	556.2	24.4	10.9	5.4	2.7	1.4	0.0	0.0	0.0	0.0
60°	2007.7	556.2	20.3	9.5	4.1	2.7	1.4	0.0	0.0	0.0	0.0
62.5°	2174.5	539.9	19.0	8.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0
65°	2310.2	481.6	16.3	6.8	4.1	2.7	1.4	0.0	0.0	0.0	0.0
67.5°	2315.6	381.2	14.9	5.4	4.1	2.7	1.4	0.0	0.0	0.0	0.0
70°	2064.6	260.5	12.2	4.1	2.7	2.7	1.4	0.0	0.0	0.0	0.0
72.5°	1545.1	139.7	10.9	4.1	2.7	1.4	1.4	0.0	0.0	0.0	0.0
75°	832.9	54.3	6.8	4.1	2.7	1.4	1.4	0.0	0.0	0.0	0.0
77.5°	242.8	27.1	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0	0.0
80°	44.8	13.6	2.7	2.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	5.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.7	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.4	1.4	1.4	1.4	1.4	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)