

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: P595111

Luminaire Tested: **IST-PA1C-727-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595111  
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-PA1C-727-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 615mA 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: 3946 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

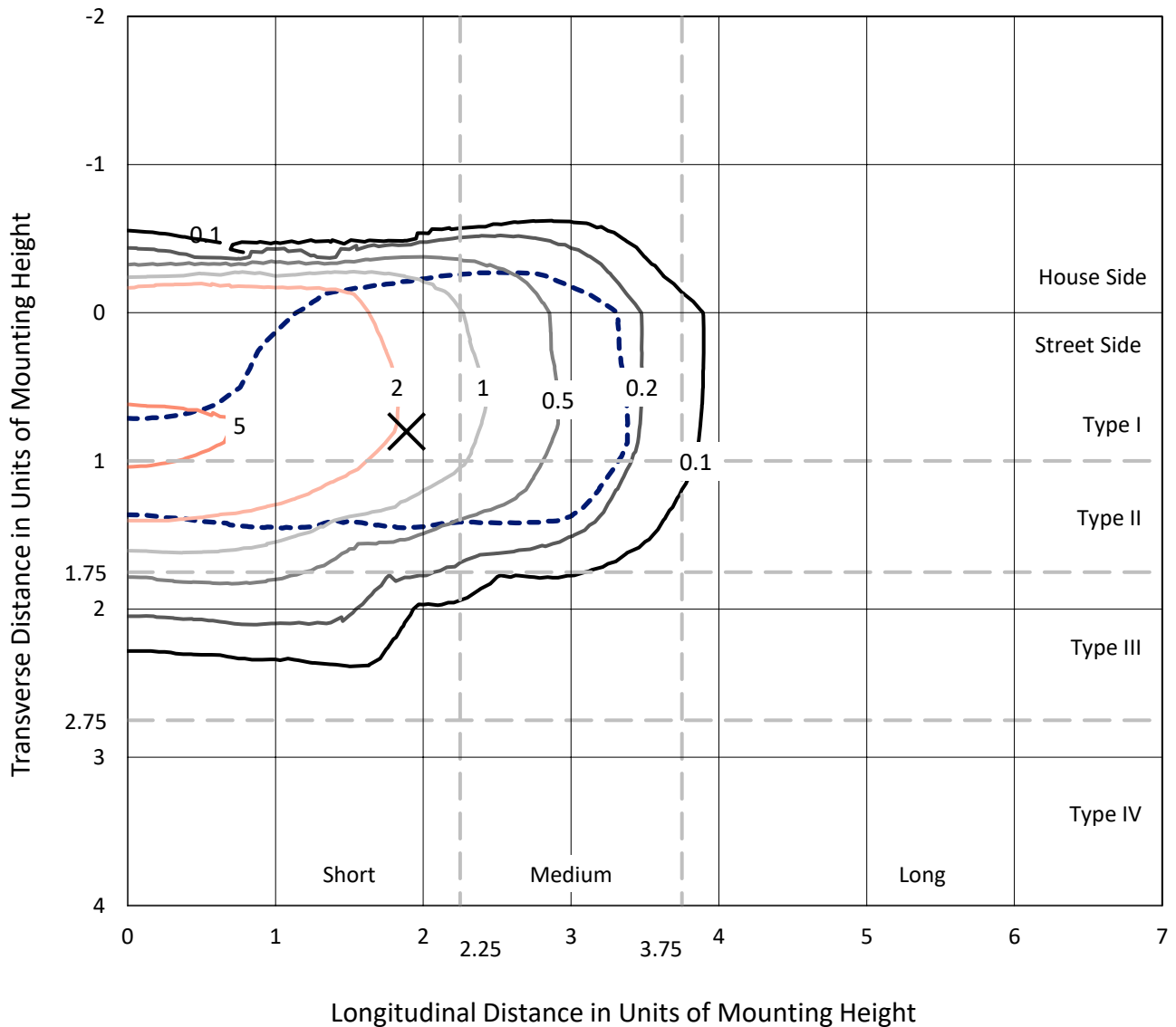
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

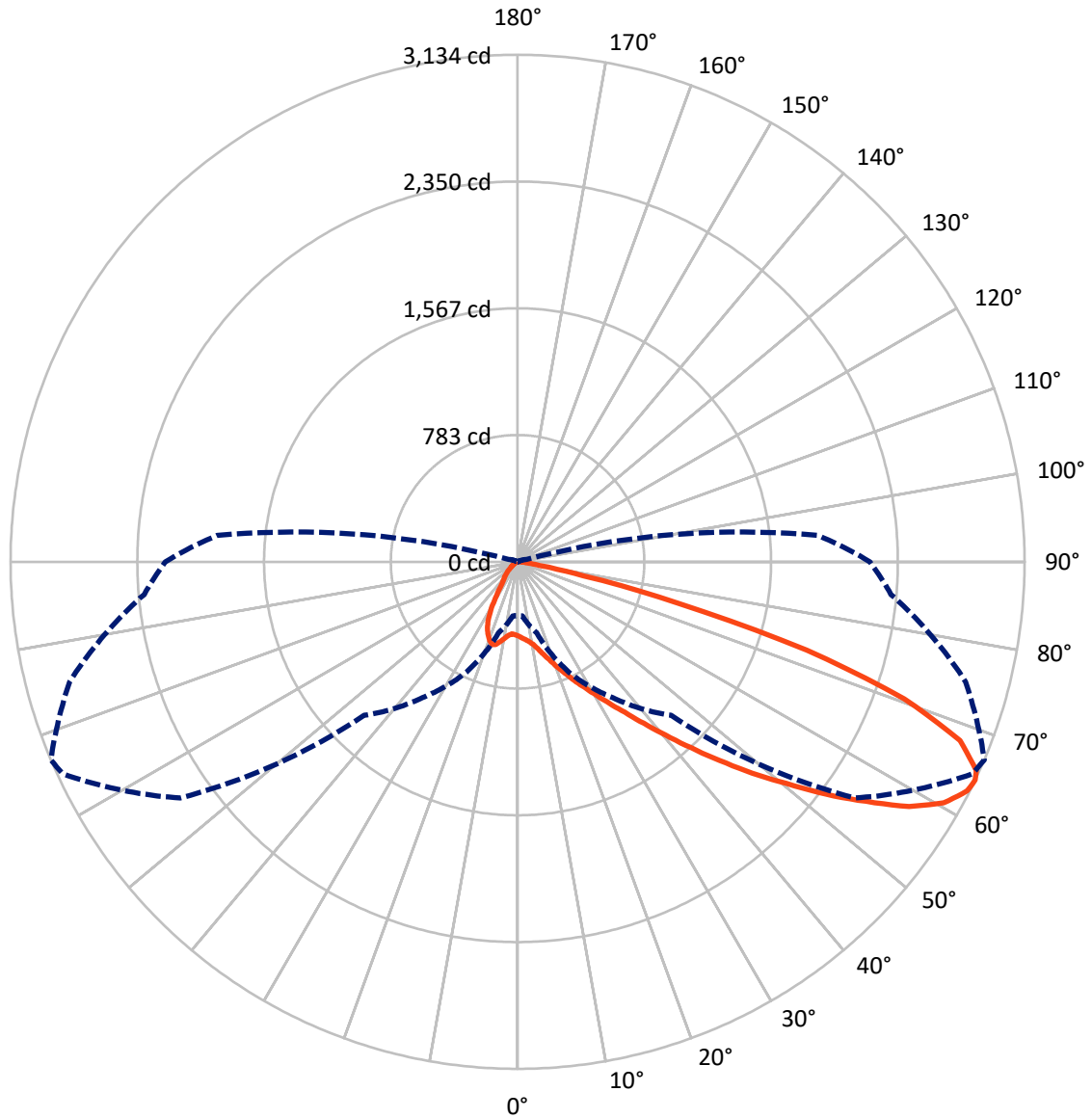
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 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	504.8	0.0	504.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3441.2	0.0	3441.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3946.0	0.0	3946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.5	1.1
10°-20°	128.4	3.3
20°-30°	232.9	5.9
30°-40°	446.2	11.3
40°-50°	822.4	20.8
50°-60°	1062.2	26.9
60°-70°	870.0	22.0
70°-80°	319.8	8.1
80°-90°	20.6	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°	3946.0	100.0
0°-180°	3946.0	100.0

**Coefficient of Utilization**



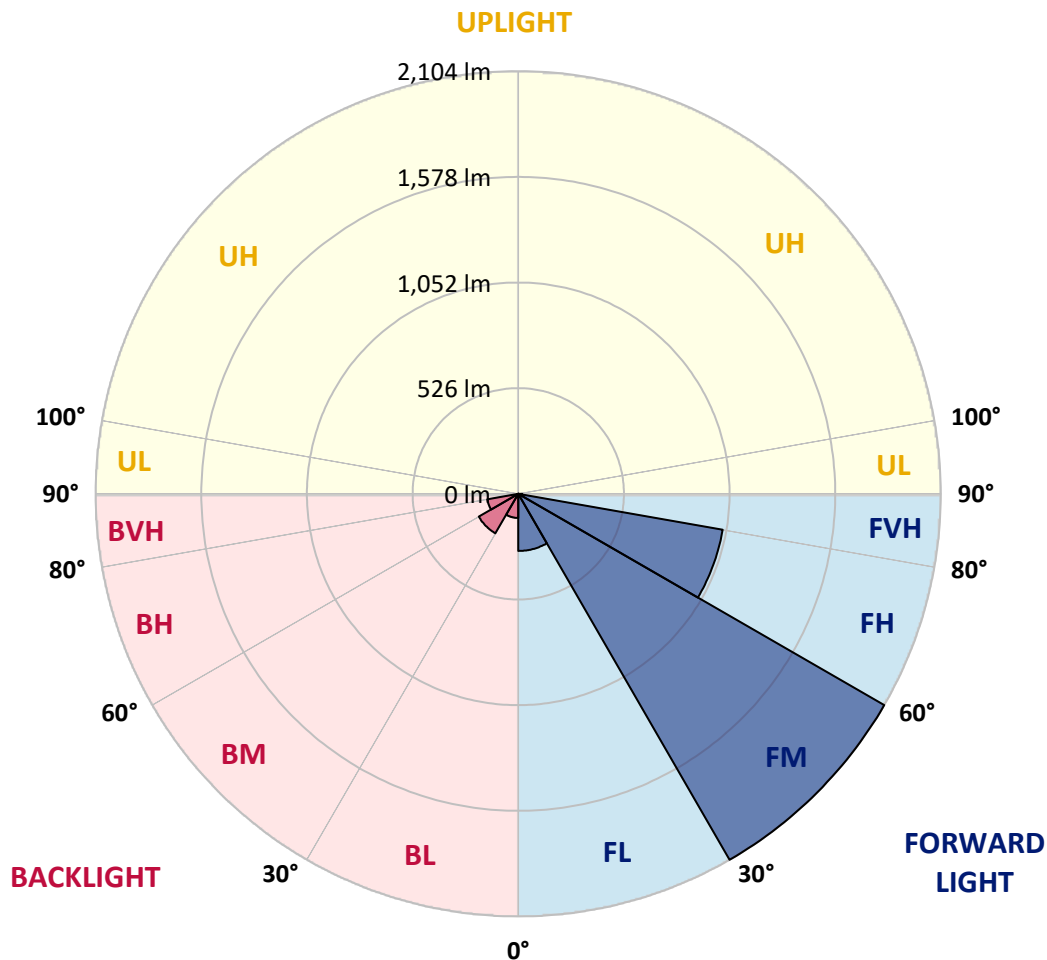
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.5	7.2			
FM (30°-60°)	2103.8	53.3			
FH (60°-80°)	1033.2	26.2			G1/1800
FVH (80°-90°)	19.7	0.5			G1/100
BL (0°-30°)	120.3	3.0	B1/500		
BM (30°-60°)	226.9	5.8	B1/1000		
BH (60°-80°)	156.6	4.0	B1/500		G1/500
BVH (80°-90°)	0.9	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°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	474.8	474.8	477.5	476.1	476.1	473.4	469.4	470.7	469.4	468.0	463.9
5°	466.6	468.0	469.4	472.1	477.5	480.2	480.2	481.6	481.6	480.2	474.8
7.5°	462.6	465.3	468.0	470.7	477.5	481.6	488.3	496.5	496.5	497.8	492.4
10°	477.5	480.2	484.3	488.3	495.1	501.9	507.3	516.8	516.8	519.5	518.2
12.5°	508.7	508.7	510.1	512.8	522.3	530.4	539.9	548.0	549.4	550.7	546.7
15°	546.7	546.7	548.0	548.0	553.5	565.7	583.3	591.4	590.1	588.7	580.6
17.5°	590.1	590.1	590.1	591.4	594.2	600.9	621.3	637.6	636.2	634.9	618.6
20°	630.8	633.5	636.2	637.6	640.3	645.7	667.4	686.4	690.5	685.0	656.6
22.5°	676.9	678.3	679.6	683.7	690.5	693.2	714.9	743.4	747.4	740.7	702.7
25°	723.0	725.7	729.8	735.2	742.0	755.6	770.5	808.5	812.6	804.4	752.9
27.5°	824.8	823.4	811.2	801.7	803.1	812.6	832.9	873.6	877.7	869.5	803.1
30°	998.4	982.1	959.1	917.0	876.3	880.4	908.9	948.2	955.0	944.1	858.7
32.5°	1245.3	1229.0	1172.0	1079.8	990.3	960.4	997.0	1035.0	1043.2	1031.0	923.8
35°	1485.4	1481.3	1427.1	1315.8	1163.9	1081.2	1090.6	1139.5	1142.2	1127.3	1005.2
37.5°	1782.5	1767.6	1692.9	1568.1	1389.1	1241.2	1214.1	1260.2	1267.0	1249.4	1104.2
40°	1979.2	1973.7	1929.0	1840.8	1648.2	1462.3	1364.7	1409.4	1408.1	1382.3	1218.2
42.5°	2093.1	2095.8	2093.1	2051.1	1941.2	1728.2	1564.1	1566.8	1570.9	1543.7	1349.7
45°	2170.4	2170.4	2174.5	2208.4	2166.4	2045.6	1806.9	1745.8	1751.3	1709.2	1486.8
47.5°	2169.1	2177.2	2198.9	2277.6	2334.6	2341.4	2110.8	1954.8	1952.0	1888.3	1627.8
50°	2022.6	2017.2	2106.7	2283.0	2454.0	2585.5	2398.3	2175.9	2152.8	2074.1	1774.3
52.5°	1692.9	1710.6	1859.8	2118.9	2482.4	2751.0	2646.6	2417.3	2387.5	2258.6	1903.2
55°	1405.4	1424.4	1569.5	1823.2	2327.8	2809.4	2813.4	2673.7	2614.0	2418.7	2036.1
57.5°	1055.4	1092.0	1306.3	1545.1	1988.7	2664.2	2873.1	2919.2	2854.1	2573.3	2144.7
60°	674.2	695.9	936.0	1230.4	1611.6	2284.4	2860.9	3061.7	3026.4	2714.4	2235.6
62.5°	440.9	453.1	618.6	926.5	1227.7	1721.4	2715.8	3118.7	3118.7	2809.4	2303.4
64°	332.3	335.1	453.1	752.9	1024.2	1341.6	2544.8	3101.0	3133.6	2866.3	2316.9
65°	263.2	264.5	354.1	625.4	919.7	1100.1	2395.6	3063.0	3115.9	2888.0	2325.1
67.5°	184.5	188.6	229.3	360.8	659.3	634.9	1775.7	2884.0	2949.1	2894.8	2314.2
70°	160.1	165.5	192.6	236.0	470.7	369.0	944.1	2458.0	2535.3	2696.8	2154.2
72.5°	122.1	128.9	161.4	199.4	331.0	249.6	364.9	1745.8	1867.9	2085.0	1778.4
75°	88.2	90.9	119.4	162.8	232.0	192.6	157.4	900.7	1024.2	1230.4	1105.6
77.5°	55.6	59.7	81.4	122.1	207.5	146.5	93.6	328.3	413.7	535.8	482.9
80°	32.6	33.9	48.8	84.1	139.7	108.5	59.7	116.7	141.1	199.4	128.9
82.5°	19.0	20.3	31.2	57.0	90.9	84.1	38.0	59.7	66.5	76.0	27.1
85°	6.8	6.8	21.7	33.9	48.8	42.1	21.7	31.2	33.9	42.1	8.1
87.5°	1.4	1.4	10.9	17.6	17.6	6.8	10.9	13.6	16.3	23.1	2.7
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°	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5	458.5
2.5°	462.6	458.5	454.4	449.0	444.9	436.8	432.7	427.3	425.9	423.2	421.9
5°	473.4	466.6	457.1	443.6	435.4	423.2	415.1	407.0	405.6	402.9	401.5
7.5°	488.3	481.6	469.4	454.4	440.9	428.7	419.2	407.0	394.7	385.3	385.3
10°	512.8	504.6	488.3	474.8	458.5	432.7	388.0	347.3	321.5	305.2	299.8
12.5°	542.6	531.8	514.1	497.8	466.6	385.3	316.1	263.2	219.8	199.4	195.3
15°	573.8	564.3	546.7	522.3	428.7	321.5	230.6	149.2	107.2	88.2	90.9
17.5°	607.7	594.2	573.8	525.0	377.1	240.1	123.4	76.0	65.1	62.4	62.4
20°	643.0	625.4	605.0	495.1	310.6	138.4	70.5	57.0	52.9	48.8	50.2
22.5°	681.0	659.3	628.1	450.4	222.5	74.6	54.3	46.1	40.7	39.3	39.3
25°	721.7	690.5	651.1	398.8	128.9	57.0	44.8	36.6	32.6	31.2	29.8
27.5°	765.1	725.7	656.6	331.0	73.3	47.5	35.3	28.5	24.4	23.1	23.1
30°	804.4	761.0	644.3	245.5	55.6	39.3	28.5	21.7	19.0	19.0	19.0
32.5°	857.3	800.4	606.4	153.3	44.8	31.2	21.7	17.6	14.9	14.9	14.9
35°	926.5	858.7	568.4	81.4	36.6	25.8	17.6	13.6	12.2	12.2	12.2
37.5°	1021.5	936.0	534.5	51.5	29.8	20.3	13.6	10.9	9.5	9.5	9.5
40°	1119.1	1028.2	487.0	39.3	24.4	16.3	10.9	8.1	6.8	6.8	8.1
42.5°	1241.2	1135.4	432.7	33.9	20.3	13.6	8.1	5.4	4.1	5.4	5.4
45°	1364.7	1248.0	356.8	28.5	17.6	10.9	5.4	2.7	2.7	4.1	4.1
47.5°	1492.2	1367.4	276.7	24.4	14.9	8.1	4.1	1.4	1.4	2.7	2.7
50°	1623.8	1485.4	206.2	21.7	12.2	6.8	2.7	1.4	0.0	1.4	1.4
52.5°	1755.3	1599.3	160.1	19.0	10.9	5.4	1.4	0.0	0.0	0.0	1.4
55°	1877.4	1702.4	127.5	16.3	9.5	4.1	1.4	0.0	0.0	0.0	0.0
57.5°	1980.5	1778.4	101.7	14.9	8.1	2.7	1.4	0.0	0.0	0.0	0.0
60°	2078.2	1838.1	78.7	12.2	6.8	2.7	1.4	0.0	0.0	0.0	0.0
62.5°	2147.4	1861.2	63.8	10.9	5.4	2.7	0.0	0.0	0.0	0.0	0.0
64°	2177.2	1863.9	55.6	9.5	5.4	2.7	1.4	0.0	0.0	0.0	0.0
65°	2194.9	1855.7	51.5	9.5	5.4	2.7	1.4	0.0	0.0	0.0	0.0
67.5°	2198.9	1811.0	39.3	8.1	4.1	1.4	1.4	0.0	0.0	0.0	0.0
70°	2079.6	1655.0	28.5	5.4	2.7	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1737.7	1264.3	19.0	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
75°	1085.2	546.7	10.9	4.1	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	449.0	165.5	6.8	2.7	1.4	1.4	0.0	0.0	0.0	0.0	0.0
80°	103.1	39.3	2.7	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	24.4	6.8	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	5.4	1.4	1.4	1.4	1.4	0.0	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)