

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: P595228

Luminaire Tested: **IST-PA1D-750-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595228  
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-PA1D-750-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 800mA 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: 5873 lumens  
Efficiency: N/A  
Efficacy: 94.1 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): 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

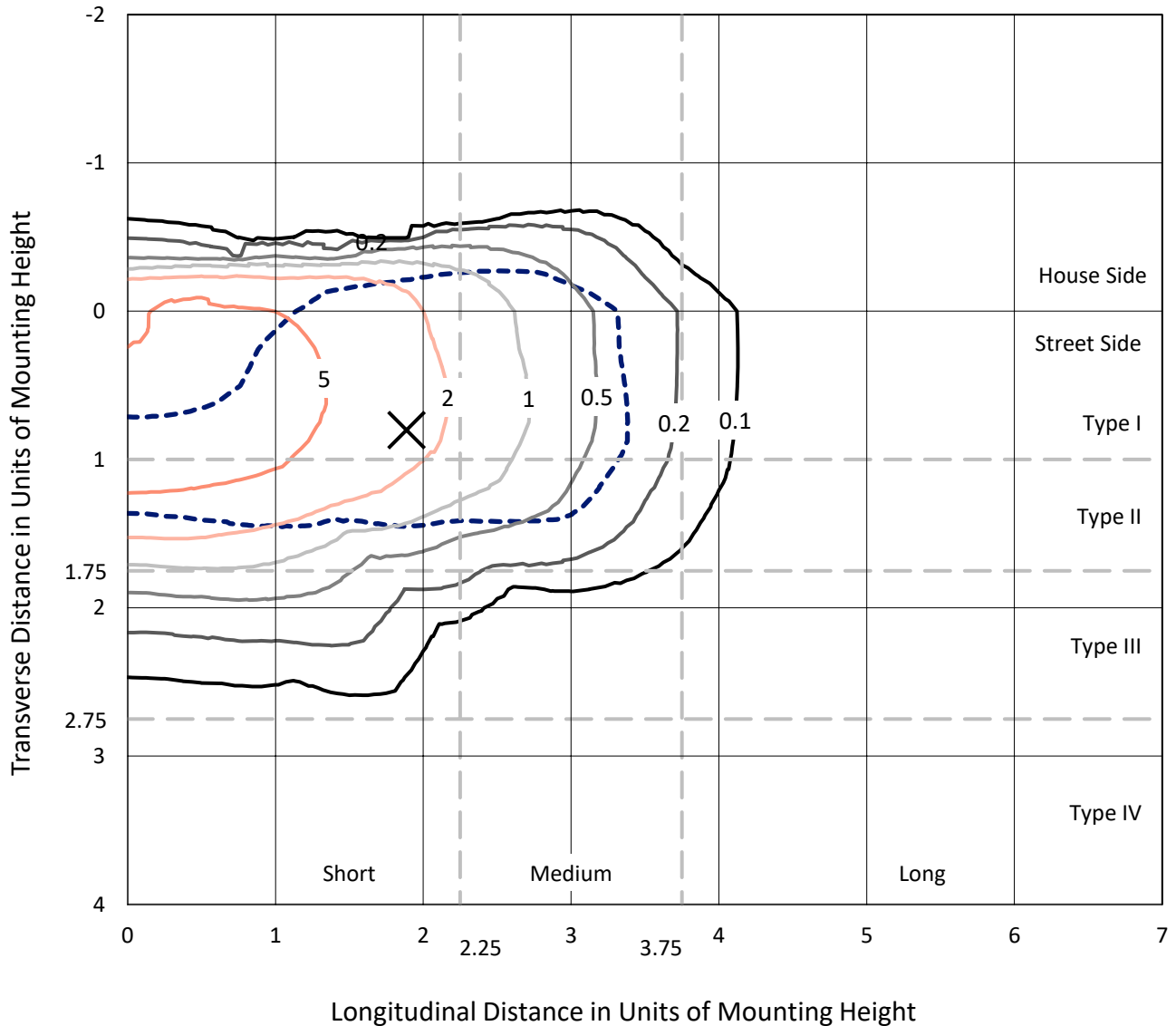




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### Iso-Footcandle Lines of Horizontal Illumination

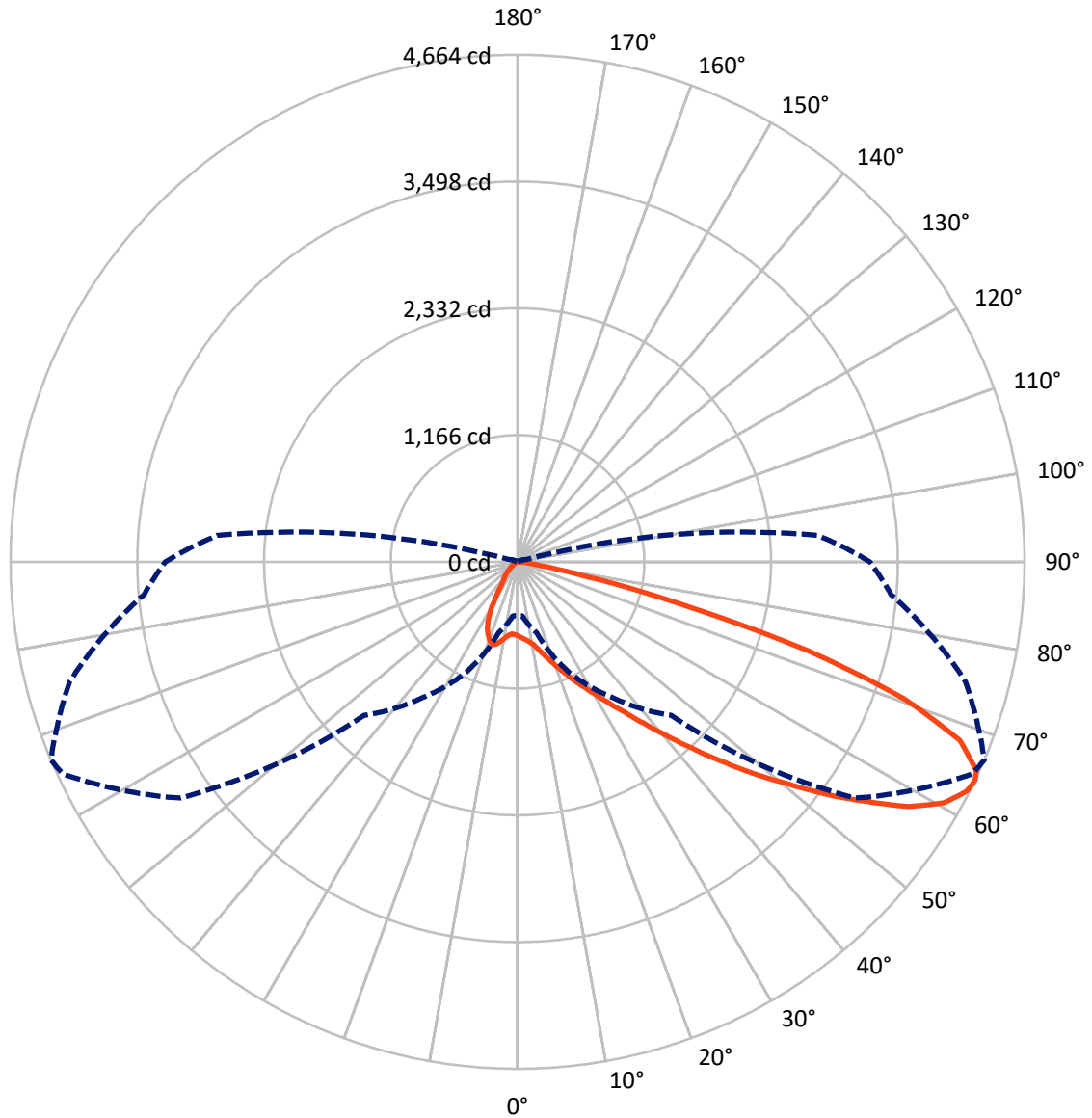
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9 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	751.3	0.0	751.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5121.7	0.0	5121.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5873.0	0.0	5873.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.7	1.1
10°-20°	191.1	3.3
20°-30°	346.7	5.9
30°-40°	664.1	11.3
40°-50°	1224.0	20.8
50°-60°	1580.9	26.9
60°-70°	1294.9	22.0
70°-80°	476.0	8.1
80°-90°	30.7	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°	5873.0	100.0
0°-180°	5873.0	100.0

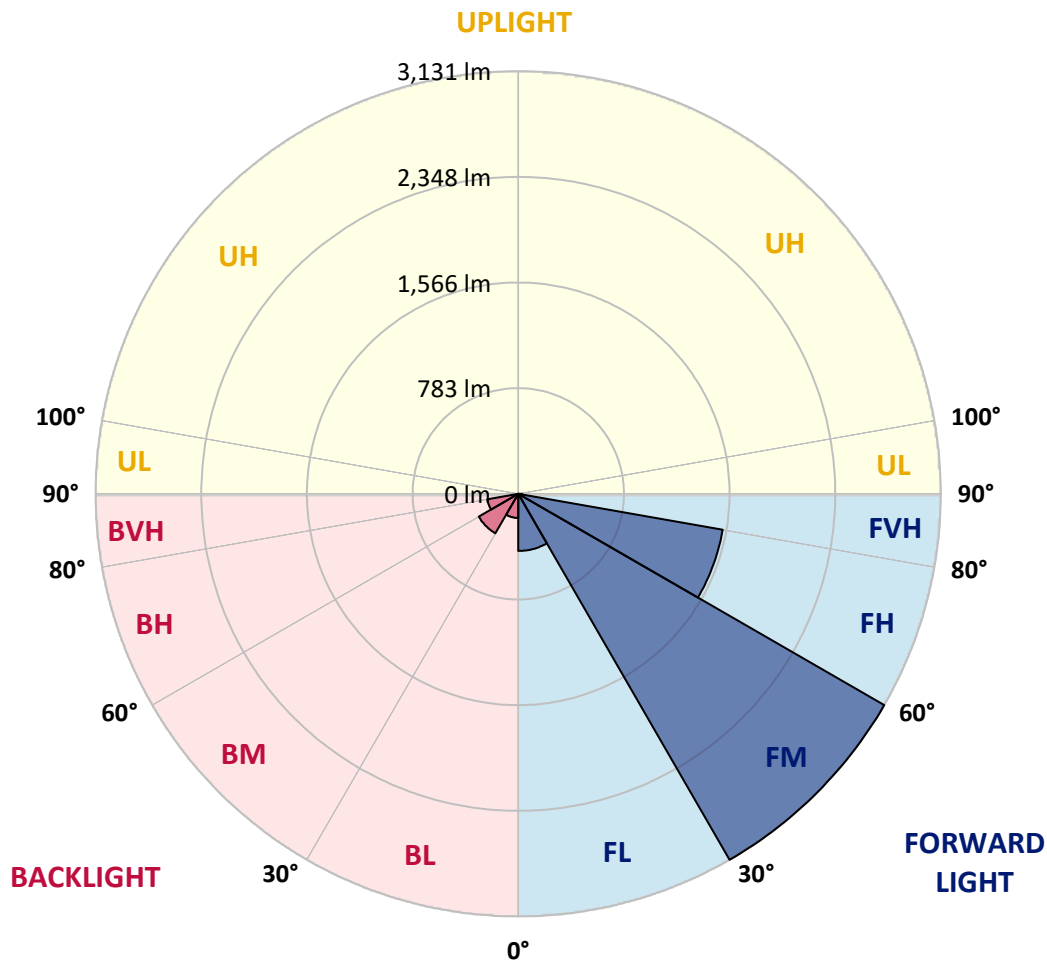


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.4	7.2			
FM (30°-60°)	3131.2	53.3			
FH (60°-80°)	1537.8	26.2			G1/1800
FVH (80°-90°)	29.3	0.5			G1/100
BL (0°-30°)	179.0	3.0	B1/500		
BM (30°-60°)	337.8	5.8	B1/1000		
BH (60°-80°)	233.1	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	706.6	706.6	710.7	708.7	708.7	704.6	698.6	700.6	698.6	696.5	690.5
5°	694.5	696.5	698.6	702.6	710.7	714.7	714.7	716.7	716.7	714.7	706.6
7.5°	688.5	692.5	696.5	700.6	710.7	716.7	726.8	738.9	738.9	741.0	732.9
10°	710.7	714.7	720.8	726.8	736.9	747.0	755.1	769.2	769.2	773.3	771.2
12.5°	757.1	757.1	759.1	763.2	777.3	789.4	803.6	815.7	817.7	819.7	813.6
15°	813.6	813.6	815.7	815.7	823.7	841.9	868.2	880.3	878.3	876.2	864.1
17.5°	878.3	878.3	878.3	880.3	884.3	894.4	924.7	948.9	946.9	944.9	920.7
20°	938.8	942.9	946.9	948.9	953.0	961.0	993.3	1021.6	1027.7	1019.6	977.2
22.5°	1007.5	1009.5	1011.5	1017.6	1027.7	1031.7	1064.0	1106.4	1112.5	1102.4	1045.8
25°	1076.1	1080.2	1086.2	1094.3	1104.4	1124.6	1146.8	1203.3	1209.4	1197.3	1120.5
27.5°	1227.5	1225.5	1207.3	1193.2	1195.2	1209.4	1239.7	1300.2	1306.3	1294.2	1195.2
30°	1486.0	1461.7	1427.4	1364.8	1304.3	1310.3	1352.7	1411.3	1421.4	1405.2	1278.0
32.5°	1853.4	1829.2	1744.4	1607.1	1473.9	1429.4	1483.9	1540.5	1552.6	1534.4	1374.9
35°	2210.8	2204.7	2124.0	1958.4	1732.3	1609.1	1623.3	1695.9	1700.0	1677.8	1496.1
37.5°	2652.9	2630.7	2519.7	2333.9	2067.4	1847.4	1807.0	1875.6	1885.7	1859.5	1643.4
40°	2945.7	2937.6	2871.0	2739.7	2453.1	2176.5	2031.1	2097.7	2095.7	2057.3	1813.0
42.5°	3115.3	3119.3	3115.3	3052.7	2889.2	2572.2	2327.9	2331.9	2338.0	2297.6	2008.9
45°	3230.4	3230.4	3236.4	3286.9	3224.3	3044.6	2689.3	2598.4	2606.5	2543.9	2212.8
47.5°	3228.3	3240.5	3272.8	3389.9	3474.7	3484.8	3141.5	2909.3	2905.3	2810.4	2422.8
50°	3010.3	3002.2	3135.5	3397.9	3652.3	3848.2	3569.5	3238.4	3204.1	3087.0	2640.8
52.5°	2519.7	2545.9	2768.0	3153.6	3694.7	4094.5	3939.0	3597.8	3553.4	3361.6	2832.6
55°	2091.7	2119.9	2336.0	2713.5	3464.6	4181.3	4187.4	3979.4	3890.6	3599.8	3030.5
57.5°	1570.8	1625.3	1944.3	2299.6	2959.8	3965.3	4276.2	4344.8	4247.9	3830.0	3192.0
60°	1003.4	1035.7	1393.1	1831.2	2398.5	3400.0	4258.0	4556.8	4504.3	4040.0	3327.3
62.5°	656.2	674.3	920.7	1379.0	1827.2	2562.1	4042.0	4641.6	4641.6	4181.3	3428.2
64°	494.6	498.7	674.3	1120.5	1524.3	1996.8	3787.6	4615.4	4663.8	4266.1	3448.4
65°	391.7	393.7	527.0	930.7	1368.9	1637.4	3565.5	4558.8	4637.6	4298.4	3460.5
67.5°	274.6	280.6	341.2	537.0	981.2	944.9	2642.8	4292.3	4389.3	4308.5	3444.4
70°	238.2	246.3	286.7	351.3	700.6	549.2	1405.2	3658.4	3773.5	4013.7	3206.1
72.5°	181.7	191.8	240.3	296.8	492.6	371.5	543.1	2598.4	2780.1	3103.2	2646.9
75°	131.2	135.3	177.7	242.3	345.2	286.7	234.2	1340.6	1524.3	1831.2	1645.5
77.5°	82.8	88.8	121.1	181.7	308.9	218.0	139.3	488.6	615.8	797.5	718.8
80°	48.5	50.5	72.7	125.2	208.0	161.5	88.8	173.6	210.0	296.8	191.8
82.5°	28.3	30.3	46.4	84.8	135.3	125.2	56.5	88.8	98.9	113.1	40.4
85°	10.1	10.1	32.3	50.5	72.7	62.6	32.3	46.4	50.5	62.6	12.1
87.5°	2.0	2.0	16.2	26.2	26.2	10.1	16.2	20.2	24.2	34.3	4.0
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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	688.5	682.4	676.4	668.3	662.2	650.1	644.1	636.0	634.0	629.9	627.9
5°	704.6	694.5	680.4	660.2	648.1	629.9	617.8	605.7	603.7	599.6	597.6
7.5°	726.8	716.7	698.6	676.4	656.2	638.0	623.9	605.7	587.5	573.4	573.4
10°	763.2	751.1	726.8	706.6	682.4	644.1	577.4	516.9	478.5	454.3	446.2
12.5°	807.6	791.4	765.2	741.0	694.5	573.4	470.4	391.7	327.1	296.8	290.7
15°	854.0	839.9	813.6	777.3	638.0	478.5	343.2	222.1	159.5	131.2	135.3
17.5°	904.5	884.3	854.0	781.3	561.3	357.4	183.7	113.1	96.9	92.9	92.9
20°	957.0	930.7	900.5	736.9	462.3	205.9	105.0	84.8	78.7	72.7	74.7
22.5°	1013.5	981.2	934.8	670.3	331.1	111.0	80.8	68.6	60.6	58.6	58.6
25°	1074.1	1027.7	969.1	593.6	191.8	84.8	66.6	54.5	48.5	46.4	44.4
27.5°	1138.7	1080.2	977.2	492.6	109.0	70.7	52.5	42.4	36.3	34.3	34.3
30°	1197.3	1132.6	959.0	365.4	82.8	58.6	42.4	32.3	28.3	28.3	28.3
32.5°	1276.0	1191.2	902.5	228.1	66.6	46.4	32.3	26.2	22.2	22.2	22.2
35°	1379.0	1278.0	846.0	121.1	54.5	38.4	26.2	20.2	18.2	18.2	18.2
37.5°	1520.3	1393.1	795.5	76.7	44.4	30.3	20.2	16.2	14.1	14.1	14.1
40°	1665.7	1530.4	724.8	58.6	36.3	24.2	16.2	12.1	10.1	10.1	12.1
42.5°	1847.4	1689.9	644.1	50.5	30.3	20.2	12.1	8.1	6.1	8.1	8.1
45°	2031.1	1857.5	531.0	42.4	26.2	16.2	8.1	4.0	4.0	6.1	6.1
47.5°	2220.9	2035.1	411.9	36.3	22.2	12.1	6.1	2.0	2.0	4.0	4.0
50°	2416.7	2210.8	306.9	32.3	18.2	10.1	4.0	2.0	0.0	2.0	2.0
52.5°	2612.6	2380.4	238.2	28.3	16.2	8.1	2.0	0.0	0.0	0.0	2.0
55°	2794.3	2533.8	189.8	24.2	14.1	6.1	2.0	0.0	0.0	0.0	0.0
57.5°	2947.7	2646.9	151.4	22.2	12.1	4.0	2.0	0.0	0.0	0.0	0.0
60°	3093.1	2735.7	117.1	18.2	10.1	4.0	2.0	0.0	0.0	0.0	0.0
62.5°	3196.0	2770.0	94.9	16.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0
64°	3240.5	2774.1	82.8	14.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0
65°	3266.7	2762.0	76.7	14.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0
67.5°	3272.8	2695.3	58.6	12.1	6.1	2.0	2.0	0.0	0.0	0.0	0.0
70°	3095.1	2463.1	42.4	8.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	2586.3	1881.7	28.3	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1615.2	813.6	16.2	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	668.3	246.3	10.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	153.4	58.6	4.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	10.1	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	2.0	2.0	2.0	2.0	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)