

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: P594940

Luminaire Tested: **IST-PA1A-727-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594940  
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-PA1A-727-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 350mA 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: 2433 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

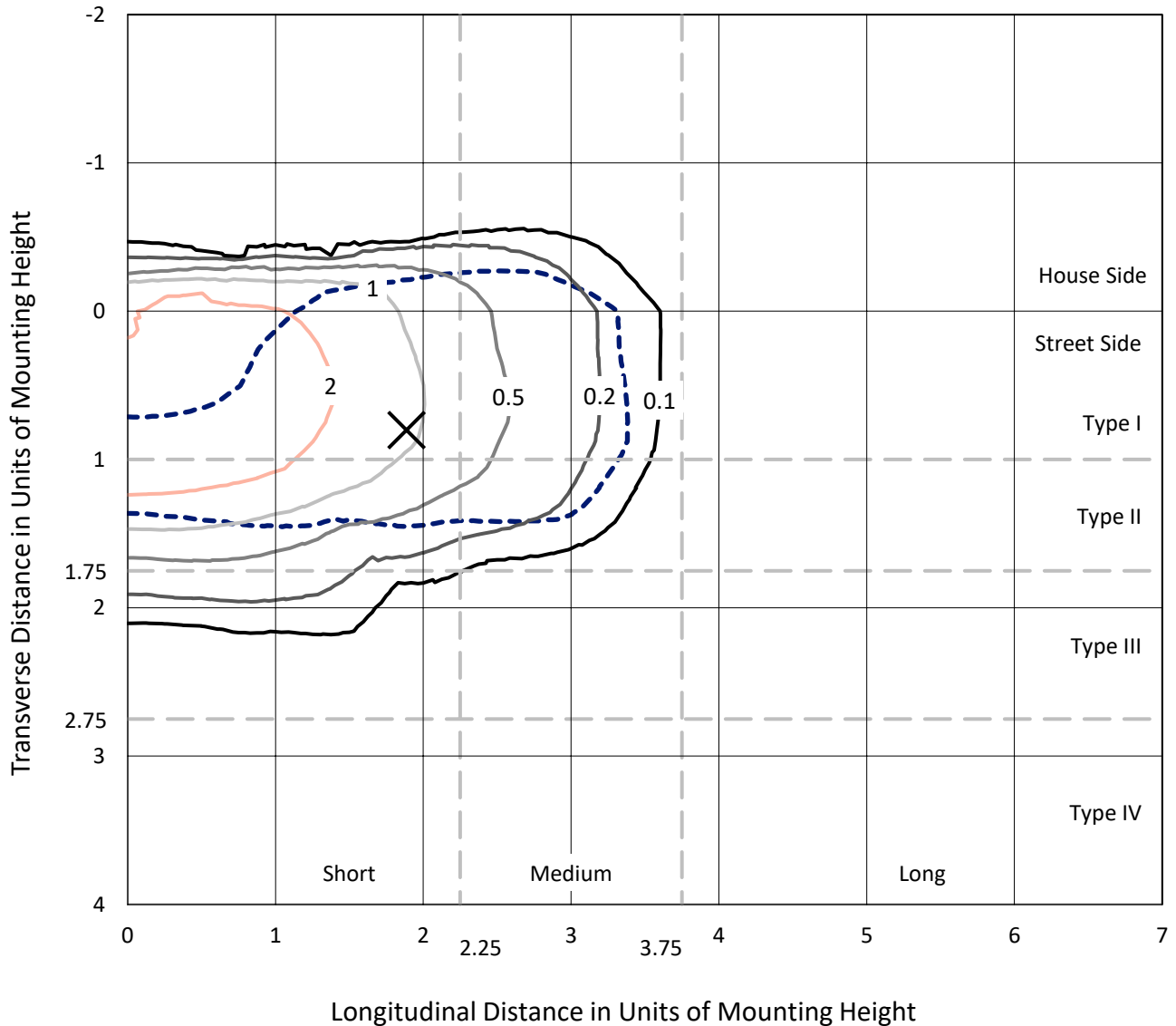
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

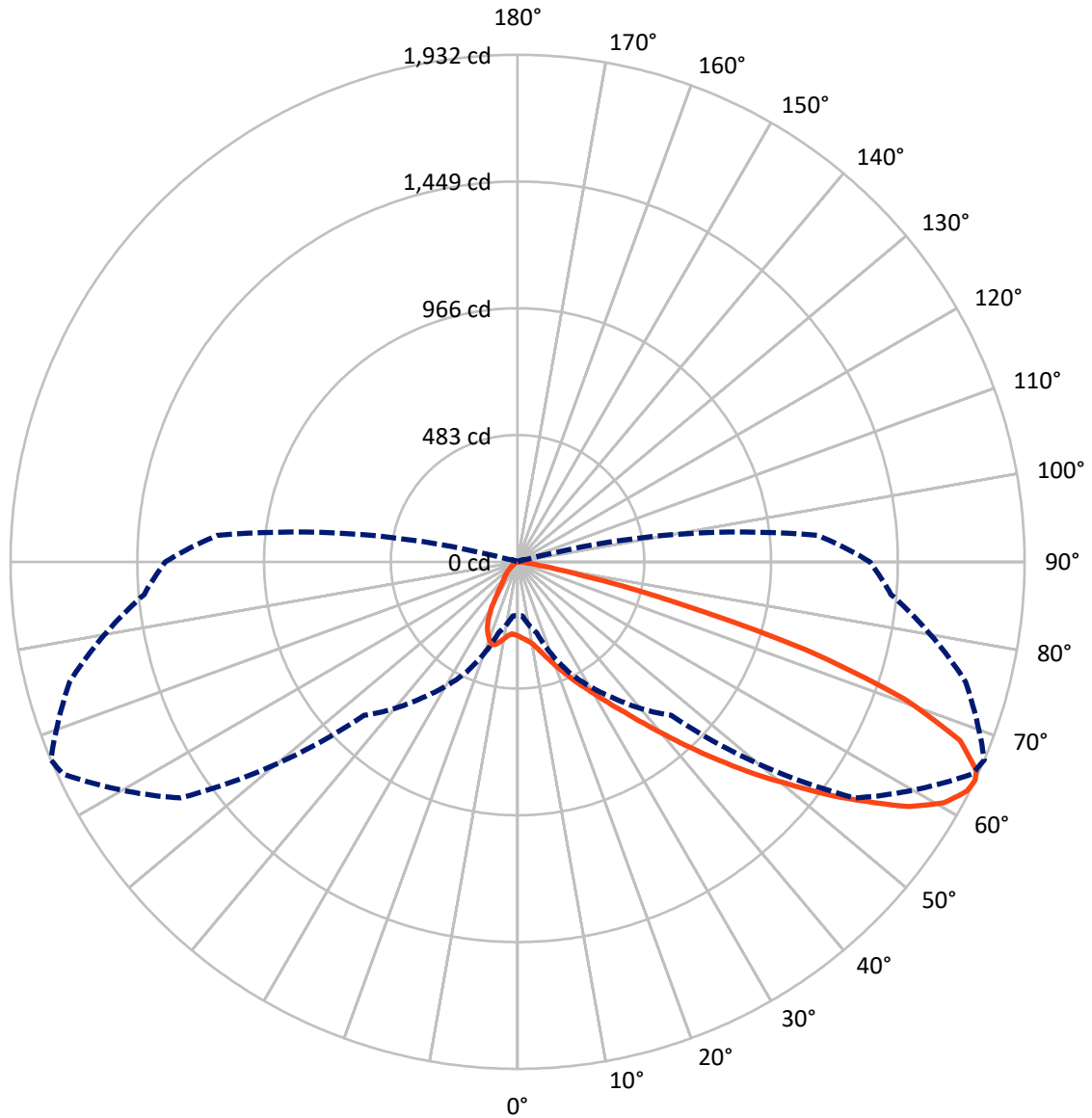
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 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	311.2	0.0	311.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2121.8	0.0	2121.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2433.0	0.0	2433.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.8	1.1
10°-20°	79.2	3.3
20°-30°	143.6	5.9
30°-40°	275.1	11.3
40°-50°	507.1	20.8
50°-60°	654.9	26.9
60°-70°	536.4	22.0
70°-80°	197.2	8.1
80°-90°	12.7	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°	2433.0	100.0
0°-180°	2433.0	100.0

**Coefficient of Utilization**

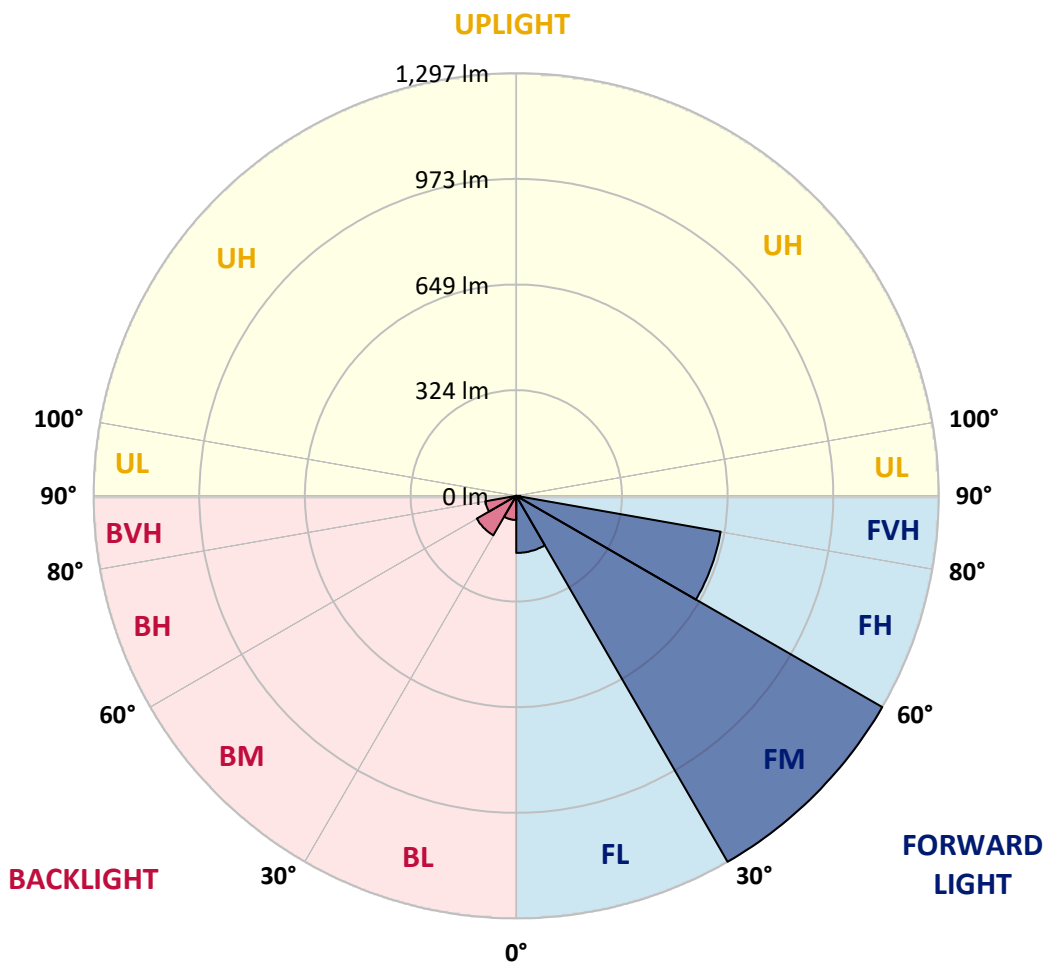


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.4	7.2			
FM (30°-60°)	1297.1	53.3			
FH (60°-80°)	637.1	26.2			G0/660
FVH (80°-90°)	12.1	0.5			G1/100
BL (0°-30°)	74.2	3.0	B0/110		
BM (30°-60°)	139.9	5.8	B0/220		
BH (60°-80°)	96.6	4.0	B0/110		G0/110
BVH (80°-90°)	0.6	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7
2.5°	292.7	292.7	294.4	293.6	293.6	291.9	289.4	290.2	289.4	288.6	286.0
5°	287.7	288.6	289.4	291.1	294.4	296.1	296.1	296.9	296.9	296.1	292.7
7.5°	285.2	286.9	288.6	290.2	294.4	296.9	301.1	306.1	306.1	307.0	303.6
10°	294.4	296.1	298.6	301.1	305.3	309.5	312.8	318.7	318.7	320.3	319.5
12.5°	313.6	313.6	314.5	316.2	322.0	327.0	332.9	337.9	338.7	339.6	337.1
15°	337.1	337.1	337.9	337.9	341.3	348.8	359.7	364.7	363.8	363.0	358.0
17.5°	363.8	363.8	363.8	364.7	366.3	370.5	383.1	393.1	392.3	391.4	381.4
20°	388.9	390.6	392.3	393.1	394.8	398.1	411.5	423.2	425.7	422.4	404.8
22.5°	417.4	418.2	419.0	421.5	425.7	427.4	440.8	458.3	460.9	456.7	433.3
25°	445.8	447.5	450.0	453.3	457.5	465.9	475.1	498.5	501.0	496.0	464.2
27.5°	508.5	507.7	500.2	494.3	495.1	501.0	513.5	538.6	541.1	536.1	495.1
30°	615.6	605.6	591.3	565.4	540.3	542.8	560.4	584.6	588.8	582.1	529.4
32.5°	767.8	757.8	722.6	665.8	610.6	592.2	614.8	638.2	643.2	635.7	569.6
35°	915.9	913.3	879.9	811.3	717.6	666.6	672.5	702.6	704.2	695.0	619.8
37.5°	1099.0	1089.8	1043.8	966.9	856.5	765.3	748.6	777.0	781.2	770.3	680.8
40°	1220.3	1217.0	1189.4	1135.0	1016.2	901.6	841.4	869.0	868.2	852.3	751.1
42.5°	1290.6	1292.2	1290.6	1264.6	1196.9	1065.6	964.4	966.0	968.5	951.8	832.2
45°	1338.2	1338.2	1340.7	1361.7	1335.7	1261.3	1114.1	1076.4	1079.8	1053.9	916.7
47.5°	1337.4	1342.4	1355.8	1404.3	1439.4	1443.6	1301.4	1205.2	1203.6	1164.3	1003.7
50°	1247.1	1243.7	1298.9	1407.7	1513.0	1594.2	1478.8	1341.6	1327.4	1278.9	1094.0
52.5°	1043.8	1054.7	1146.7	1306.5	1530.6	1696.2	1631.8	1490.5	1472.1	1392.6	1173.5
55°	866.5	878.2	967.7	1124.1	1435.3	1732.2	1734.7	1648.5	1611.7	1491.3	1255.4
57.5°	650.7	673.3	805.5	952.7	1226.2	1642.7	1771.5	1799.9	1759.8	1586.6	1322.3
60°	415.7	429.1	577.1	758.6	993.6	1408.5	1764.0	1887.8	1866.0	1673.6	1378.4
62.5°	271.8	279.4	381.4	571.3	756.9	1061.4	1674.5	1922.9	1922.9	1732.2	1420.2
64°	204.9	206.6	279.4	464.2	631.5	827.2	1569.1	1912.0	1932.1	1767.3	1428.6
65°	162.3	163.1	218.3	385.6	567.1	678.3	1477.1	1888.6	1921.2	1780.7	1433.6
67.5°	113.8	116.3	141.4	222.5	406.5	391.4	1094.8	1778.2	1818.3	1784.9	1426.9
70°	98.7	102.0	118.8	145.5	290.2	227.5	582.1	1515.6	1563.2	1662.8	1328.2
72.5°	75.3	79.5	99.5	123.0	204.1	153.9	225.0	1076.4	1151.7	1285.5	1096.5
75°	54.4	56.0	73.6	100.4	143.0	118.8	97.0	555.4	631.5	758.6	681.7
77.5°	34.3	36.8	50.2	75.3	128.0	90.3	57.7	202.4	255.1	330.4	297.8
80°	20.1	20.9	30.1	51.9	86.1	66.9	36.8	71.9	87.0	123.0	79.5
82.5°	11.7	12.5	19.2	35.1	56.0	51.9	23.4	36.8	41.0	46.8	16.7
85°	4.2	4.2	13.4	20.9	30.1	25.9	13.4	19.2	20.9	25.9	5.0
87.5°	0.8	0.8	6.7	10.9	10.9	4.2	6.7	8.4	10.0	14.2	1.7
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°	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7
2.5°	285.2	282.7	280.2	276.8	274.3	269.3	266.8	263.5	262.6	261.0	260.1
5°	291.9	287.7	281.9	273.5	268.5	261.0	255.9	250.9	250.1	248.4	247.6
7.5°	301.1	296.9	289.4	280.2	271.8	264.3	258.4	250.9	243.4	237.5	237.5
10°	316.2	311.1	301.1	292.7	282.7	266.8	239.2	214.1	198.2	188.2	184.8
12.5°	334.6	327.9	317.0	307.0	287.7	237.5	194.9	162.3	135.5	123.0	120.4
15°	353.8	347.9	337.1	322.0	264.3	198.2	142.2	92.0	66.1	54.4	56.0
17.5°	374.7	366.3	353.8	323.7	232.5	148.0	76.1	46.8	40.1	38.5	38.5
20°	396.5	385.6	373.0	305.3	191.5	85.3	43.5	35.1	32.6	30.1	30.9
22.5°	419.9	406.5	387.3	277.7	137.2	46.0	33.5	28.4	25.1	24.3	24.3
25°	445.0	425.7	401.5	245.9	79.5	35.1	27.6	22.6	20.1	19.2	18.4
27.5°	471.7	447.5	404.8	204.1	45.2	29.3	21.7	17.6	15.1	14.2	14.2
30°	496.0	469.2	397.3	151.4	34.3	24.3	17.6	13.4	11.7	11.7	11.7
32.5°	528.6	493.5	373.9	94.5	27.6	19.2	13.4	10.9	9.2	9.2	9.2
35°	571.3	529.4	350.5	50.2	22.6	15.9	10.9	8.4	7.5	7.5	7.5
37.5°	629.8	577.1	329.5	31.8	18.4	12.5	8.4	6.7	5.9	5.9	5.9
40°	690.0	634.0	300.3	24.3	15.1	10.0	6.7	5.0	4.2	4.2	5.0
42.5°	765.3	700.1	266.8	20.9	12.5	8.4	5.0	3.3	2.5	3.3	3.3
45°	841.4	769.5	220.0	17.6	10.9	6.7	3.3	1.7	1.7	2.5	2.5
47.5°	920.0	843.1	170.6	15.1	9.2	5.0	2.5	0.8	0.8	1.7	1.7
50°	1001.2	915.9	127.1	13.4	7.5	4.2	1.7	0.8	0.0	0.8	0.8
52.5°	1082.3	986.1	98.7	11.7	6.7	3.3	0.8	0.0	0.0	0.0	0.8
55°	1157.6	1049.7	78.6	10.0	5.9	2.5	0.8	0.0	0.0	0.0	0.0
57.5°	1221.1	1096.5	62.7	9.2	5.0	1.7	0.8	0.0	0.0	0.0	0.0
60°	1281.4	1133.3	48.5	7.5	4.2	1.7	0.8	0.0	0.0	0.0	0.0
62.5°	1324.0	1147.5	39.3	6.7	3.3	1.7	0.0	0.0	0.0	0.0	0.0
64°	1342.4	1149.2	34.3	5.9	3.3	1.7	0.8	0.0	0.0	0.0	0.0
65°	1353.3	1144.2	31.8	5.9	3.3	1.7	0.8	0.0	0.0	0.0	0.0
67.5°	1355.8	1116.6	24.3	5.0	2.5	0.8	0.8	0.0	0.0	0.0	0.0
70°	1282.2	1020.4	17.6	3.3	1.7	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1071.4	779.5	11.7	2.5	1.7	0.8	0.0	0.0	0.0	0.0	0.0
75°	669.1	337.1	6.7	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	276.8	102.0	4.2	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	63.6	24.3	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	15.1	4.2	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.3	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	0.8	0.8	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)