

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: P594939

Luminaire Tested: **IST-PA1A-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
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-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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

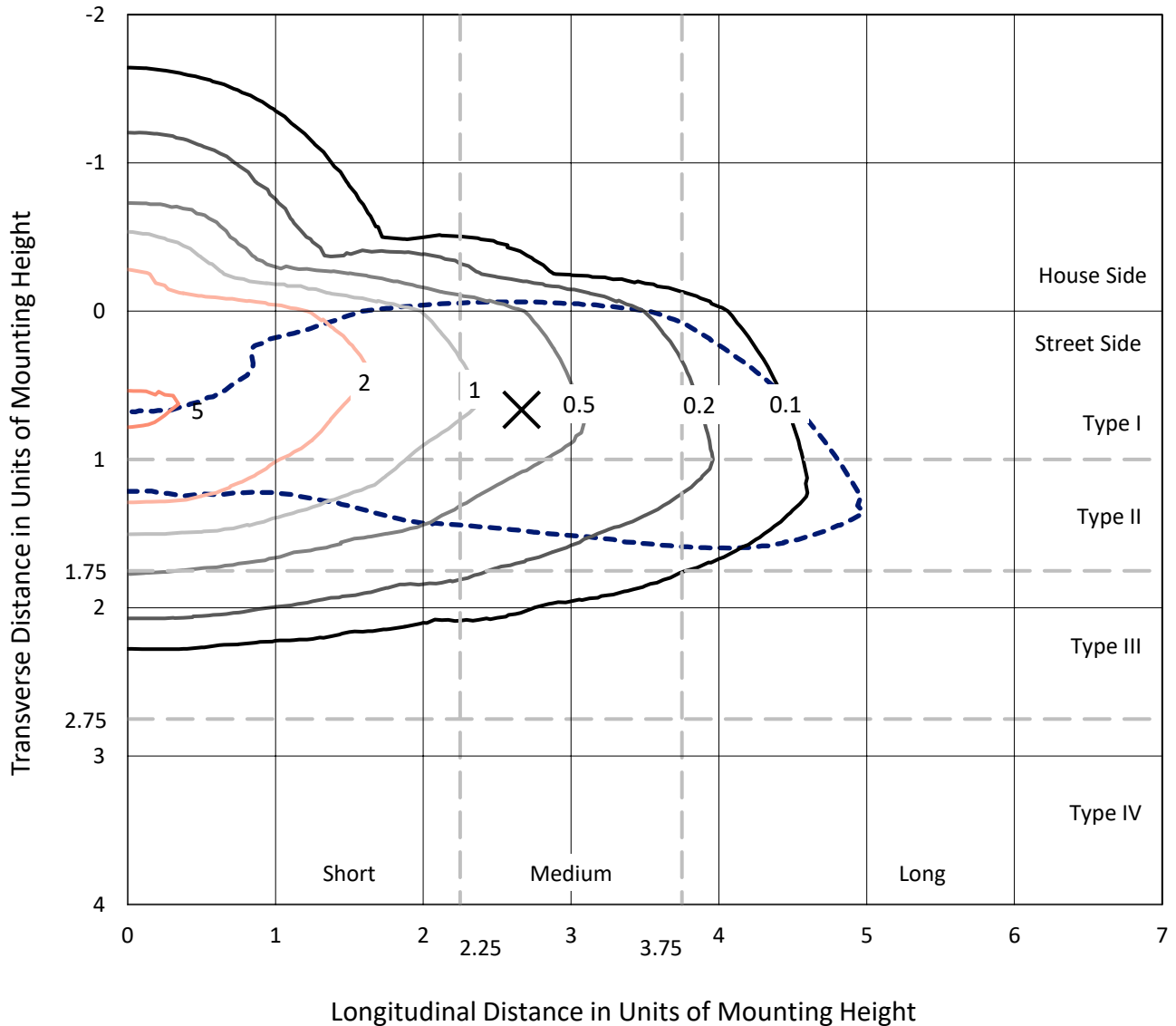




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Iso-Footcandle Lines of Horizontal Illumination

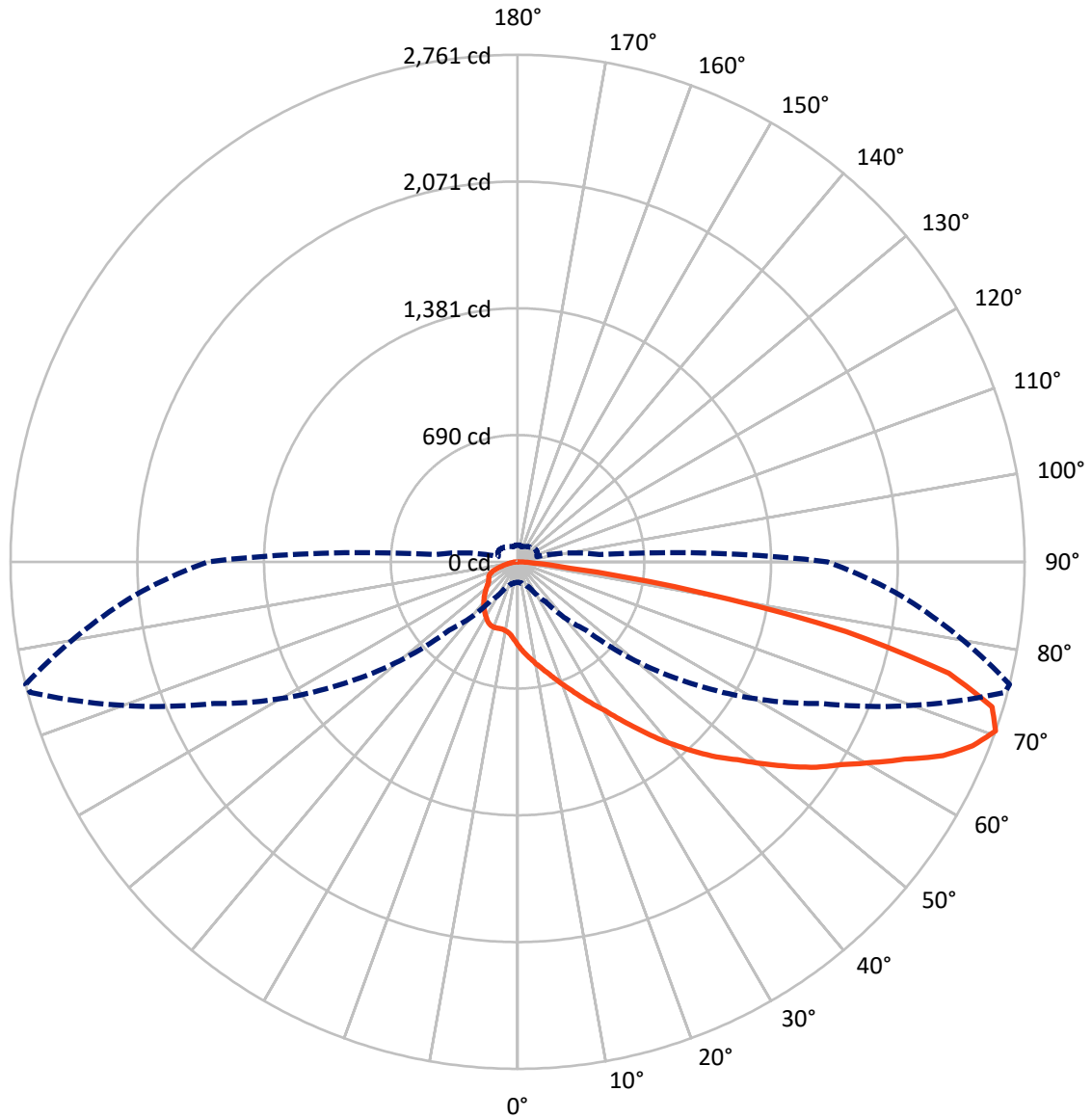
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.2	0.0	557.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	2916.8	0.0	2916.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	3474.0	0.0	3474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	1.3
10°-20°	146.6	4.2
20°-30°	270.1	7.8
30°-40°	452.6	13.0
40°-50°	643.1	18.5
50°-60°	742.5	21.4
60°-70°	682.5	19.6
70°-80°	430.4	12.4
80°-90°	61.9	1.8
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°	3474.0	100.0
0°-180°	3474.0	100.0

Coefficient of Utilization

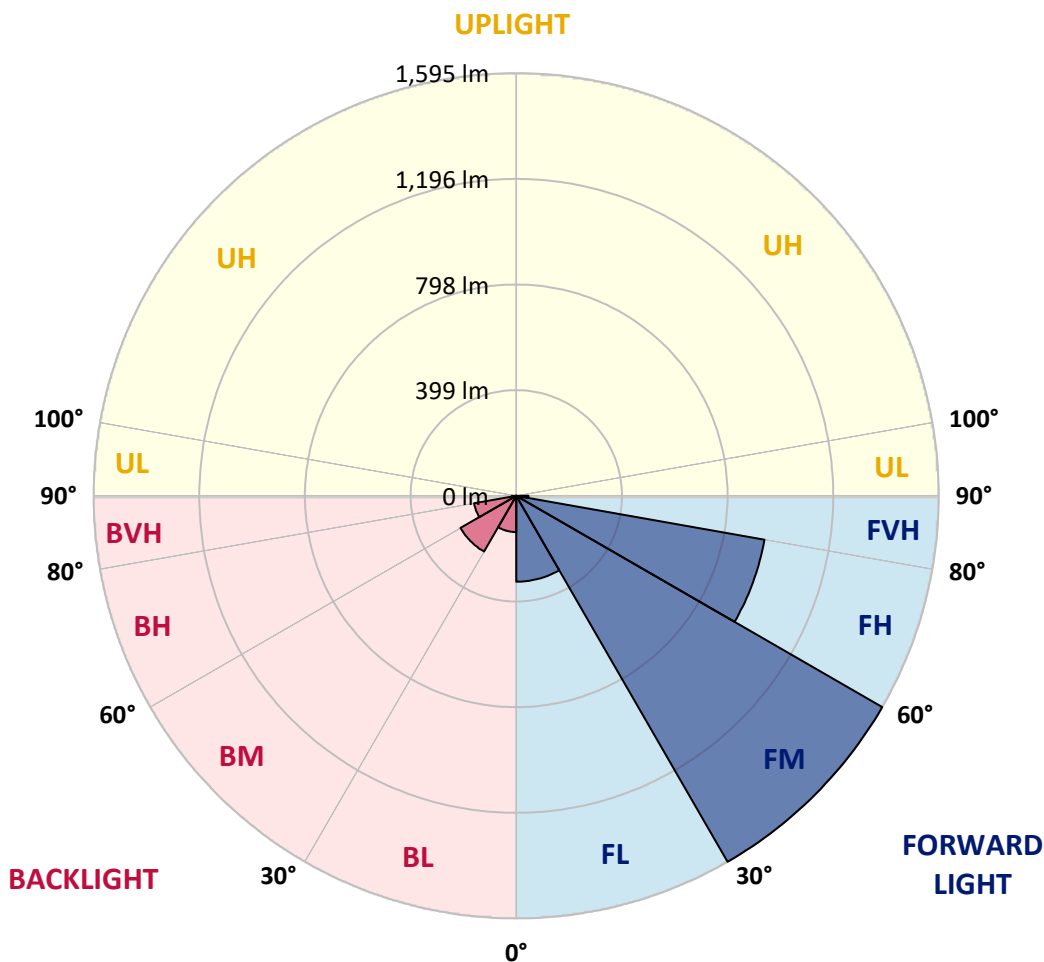


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.3	9.3			
FM (30°-60°)	1595.2	45.9			
FH (60°-80°)	951.4	27.4			G1/1800
FVH (80°-90°)	45.9	1.3			G1/100
BL (0°-30°)	136.8	3.9	B1/500		
BM (30°-60°)	242.9	7.0	B1/1000		
BH (60°-80°)	161.5	4.6	B1/500		G1/500
BVH (80°-90°)	16.0	0.5			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7
2.5°	548.6	547.7	545.2	541.0	537.7	527.7	514.3	502.6	485.0	483.3	465.8
5°	597.9	594.5	594.5	590.4	586.2	575.3	558.6	537.7	512.6	510.9	477.5
7.5°	621.3	622.1	620.5	617.1	618.0	608.8	593.7	572.8	538.5	536.8	493.4
10°	654.8	653.9	650.6	648.1	647.2	638.9	625.5	606.3	570.3	567.0	511.8
12.5°	687.4	684.9	685.7	684.9	683.2	674.8	662.3	643.0	598.7	597.1	534.3
15°	705.8	704.9	710.8	712.5	719.1	711.6	700.7	679.0	638.9	632.2	561.1
17.5°	717.5	716.6	722.5	735.9	748.4	748.4	745.1	721.7	677.3	672.3	591.2
20°	737.5	740.9	750.9	761.8	780.2	783.5	782.7	772.7	721.7	716.6	624.7
22.5°	777.7	776.0	784.4	801.1	817.8	822.8	823.7	823.7	772.7	763.5	658.9
25°	863.8	859.6	852.9	851.3	871.3	870.5	868.0	873.8	826.2	819.5	698.2
27.5°	1027.7	1018.5	992.6	940.7	929.0	933.2	920.7	921.5	887.2	878.9	731.7
30°	1183.2	1179.1	1154.8	1092.1	1026.0	1002.6	980.9	971.7	955.0	940.7	767.6
32.5°	1323.7	1324.6	1295.3	1226.7	1159.0	1085.4	1047.8	1028.5	1035.2	1022.7	817.0
35°	1419.1	1411.5	1393.1	1347.1	1273.6	1203.3	1131.4	1088.8	1124.7	1110.5	866.3
37.5°	1475.1	1469.2	1454.2	1421.6	1384.8	1317.0	1225.9	1160.7	1230.9	1210.0	929.0
40°	1503.5	1495.2	1480.1	1466.7	1449.2	1412.4	1332.1	1242.6	1327.9	1309.5	990.9
42.5°	1506.9	1501.0	1492.6	1486.0	1491.8	1486.8	1435.8	1337.9	1429.9	1409.9	1062.0
45°	1504.4	1508.5	1498.5	1486.8	1498.5	1541.1	1541.1	1433.3	1531.1	1516.1	1129.7
47.5°	1506.0	1501.8	1498.5	1495.2	1496.8	1555.4	1613.9	1522.7	1628.1	1610.5	1209.2
50°	1436.6	1442.5	1470.9	1483.4	1491.0	1558.7	1672.4	1619.7	1748.5	1726.8	1297.8
52.5°	1215.9	1219.2	1348.8	1442.5	1472.6	1545.3	1713.4	1727.6	1867.3	1850.5	1393.1
55°	936.6	954.1	1077.0	1306.2	1430.8	1522.7	1725.9	1797.9	1988.5	1975.1	1489.3
57.5°	771.0	773.5	844.6	1049.4	1298.6	1501.8	1738.5	1862.3	2097.2	2082.2	1589.6
60°	639.7	633.9	677.3	809.5	1078.7	1418.2	1741.0	1913.3	2223.5	2218.5	1693.3
62.5°	470.0	476.6	518.5	630.5	843.7	1248.5	1728.5	1956.7	2374.0	2367.3	1808.7
65°	288.5	296.9	347.9	450.7	638.9	990.9	1646.5	1979.3	2532.1	2547.1	1933.3
67.5°	153.0	158.9	189.0	272.6	438.2	755.1	1449.2	1950.9	2665.9	2672.5	2052.9
70°	112.1	112.9	122.9	153.9	264.2	525.1	1154.0	1827.1	2747.8	2761.2	2092.2
72.5°	97.8	98.7	102.9	110.4	143.8	320.3	827.0	1611.4	2713.5	2701.8	2026.1
75°	88.6	88.6	92.0	94.5	105.4	177.3	506.7	1318.7	2451.8	2425.9	1727.6
77.5°	76.1	76.1	79.4	82.8	91.1	114.6	265.1	977.5	1874.8	1830.5	1181.6
80°	61.0	61.0	65.2	69.4	80.3	86.1	129.6	653.9	1072.0	1006.8	537.7
82.5°	41.8	45.2	52.7	57.7	66.9	61.0	76.1	282.6	337.8	292.7	121.3
85°	25.1	26.8	37.6	43.5	50.2	32.6	46.8	108.7	101.2	88.6	27.6
87.5°	2.5	4.2	15.1	17.6	17.6	9.2	20.1	25.9	29.3	30.1	6.7
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°	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7	455.7
2.5°	455.7	445.7	426.5	408.9	391.3	379.6	367.9	363.8	357.9	353.7	357.1
5°	459.9	439.0	402.2	371.3	350.4	334.5	327.0	322.8	319.4	318.6	317.8
7.5°	464.9	434.0	384.7	350.4	330.3	322.8	321.1	321.1	321.1	321.9	322.8
10°	475.8	435.7	375.5	338.7	327.8	326.1	327.0	330.3	330.3	331.1	331.1
12.5°	488.3	439.8	368.8	337.0	330.3	331.1	332.0	333.6	333.6	336.2	335.3
15°	506.7	448.2	367.9	338.7	332.8	331.1	331.1	330.3	330.3	330.3	332.0
17.5°	530.2	459.9	368.8	338.7	330.3	327.0	324.5	321.9	318.6	320.3	318.6
20°	553.6	474.1	368.8	334.5	323.6	315.3	307.7	303.5	299.4	298.5	299.4
22.5°	582.8	490.9	364.6	325.3	309.4	297.7	286.8	281.0	274.3	271.8	270.1
25°	607.9	504.2	356.2	311.9	293.5	276.8	262.6	252.5	244.2	242.5	242.5
27.5°	633.9	515.9	343.7	295.2	270.9	252.5	236.6	224.1	215.7	214.9	214.1
30°	658.1	526.0	327.0	276.8	250.9	229.1	210.7	199.9	192.3	188.1	185.6
32.5°	689.9	539.4	311.1	258.4	227.5	205.7	189.0	179.8	169.8	163.1	160.6
35°	730.0	555.2	293.5	238.3	206.5	184.8	174.8	161.4	148.8	141.3	138.8
37.5°	775.2	577.8	275.1	217.4	185.6	169.8	163.9	143.0	129.6	127.1	126.3
40°	831.2	599.6	254.2	195.7	165.6	161.4	151.4	129.6	122.9	122.1	121.3
42.5°	887.2	623.0	234.1	173.9	149.7	151.4	137.1	126.3	120.4	118.7	117.9
45°	952.4	646.4	214.1	154.7	137.1	137.1	129.6	122.9	117.9	116.2	116.2
47.5°	1021.0	669.8	192.3	138.0	127.9	122.9	123.8	118.7	115.4	113.7	112.9
50°	1107.1	692.4	172.3	126.3	122.1	115.4	117.9	114.6	112.9	111.2	110.4
52.5°	1188.3	702.4	153.9	119.6	118.7	112.1	112.9	111.2	110.4	107.9	107.0
55°	1267.7	699.9	139.6	116.2	114.6	111.2	109.5	108.7	107.9	105.4	104.5
57.5°	1356.3	696.6	130.4	115.4	112.1	108.7	108.7	106.2	102.9	102.9	102.9
60°	1448.3	685.7	126.3	115.4	111.2	108.7	107.0	104.5	101.2	102.0	101.2
62.5°	1552.0	664.8	123.8	117.9	112.1	107.9	106.2	102.9	98.7	99.5	98.7
65°	1643.2	622.1	122.1	120.4	113.7	108.7	104.5	100.3	95.3	96.2	95.3
67.5°	1705.0	550.2	117.1	122.1	116.2	107.9	102.9	97.0	90.3	93.7	92.8
70°	1687.5	447.4	107.9	118.7	118.7	108.7	100.3	92.8	85.3	92.0	89.5
72.5°	1551.2	336.2	90.3	107.0	117.1	108.7	95.3	86.1	79.4	83.6	78.6
75°	1273.6	228.3	71.9	85.3	109.5	109.5	91.1	79.4	71.1	68.6	66.9
77.5°	794.4	142.2	56.0	62.7	92.0	108.7	87.0	71.1	59.4	57.7	56.0
80°	314.4	76.1	44.3	45.2	67.7	99.5	81.1	60.2	47.7	46.0	42.6
82.5°	71.9	38.5	30.9	30.1	41.8	81.1	73.6	47.7	36.8	36.8	30.9
85°	21.7	20.1	20.1	19.2	20.9	41.8	56.9	32.6	25.1	17.6	15.1
87.5°	5.9	8.4	7.5	6.7	6.7	5.9	18.4	8.4	5.0	2.5	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

(END OF REPORT)