

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: P594938

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594938
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-PA1A-727-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 350mA 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: 2786 lumens
Efficiency: N/A
Efficacy: 96.7 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): 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

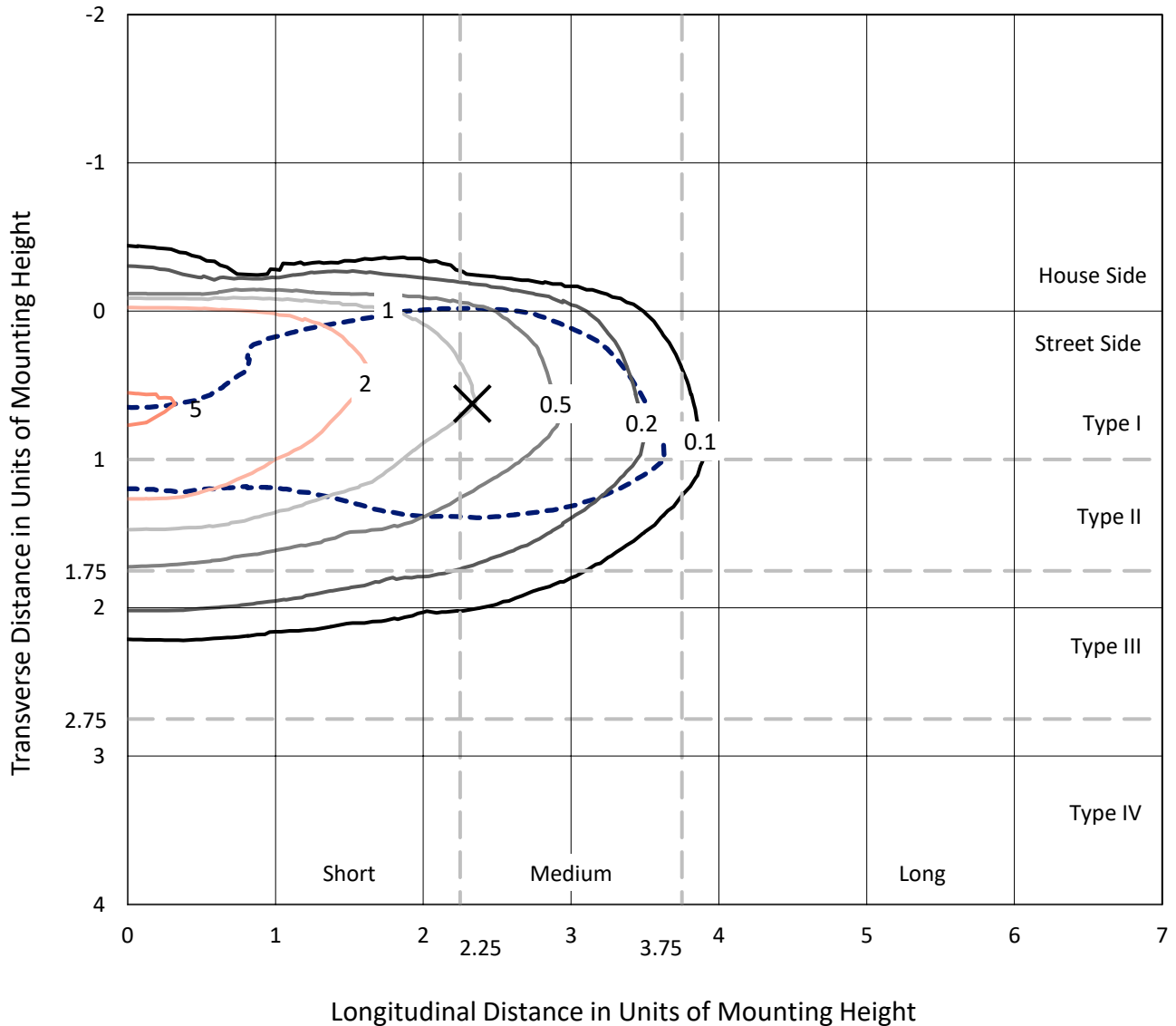




REPORT NUMBER: P594938
 CATALOG NUMBER: IST-PA1A-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

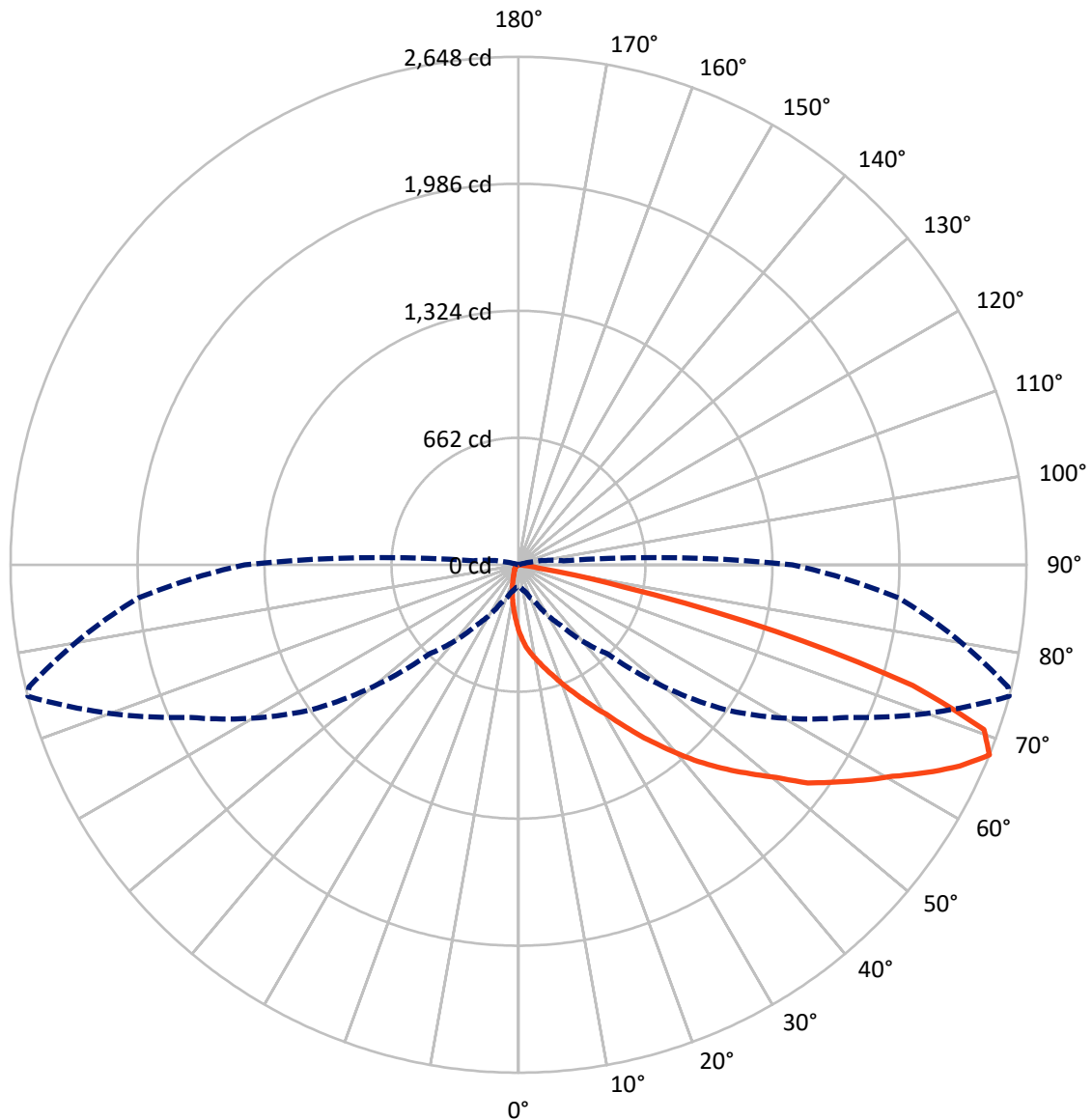
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P594938
CATALOG NUMBER: IST-PA1A-727-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594938
 CATALOG NUMBER: IST-PA1A-727-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.4	0.0	140.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2645.6	0.0	2645.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	2786.0	0.0	2786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.1
10°-20°	100.8	3.6
20°-30°	202.6	7.3
30°-40°	383.2	13.8
40°-50°	573.2	20.6
50°-60°	661.8	23.8
60°-70°	586.6	21.1
70°-80°	237.1	8.5
80°-90°	9.4	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°	2786.0	100.0
0°-180°	2786.0	100.0

Coefficient of Utilization

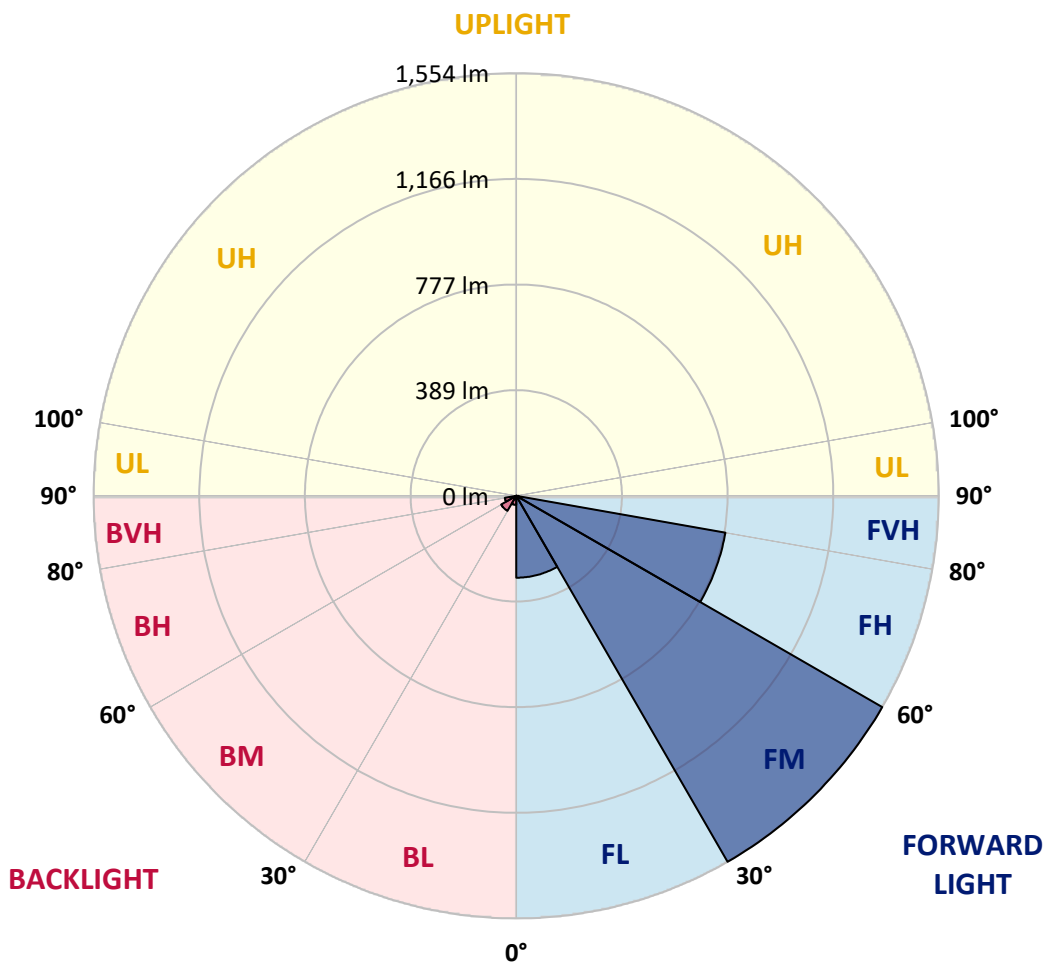


REPORT NUMBER: P594938
 CATALOG NUMBER: IST-PA1A-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.2	10.8			
FM (30°-60°)	1554.1	55.8			
FH (60°-80°)	781.2	28.0			G1/1800
FVH (80°-90°)	9.0	0.3			G0/10
BL (0°-30°)	33.4	1.2	B0/110		
BM (30°-60°)	64.1	2.3	B0/220		
BH (60°-80°)	42.6	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





REPORT NUMBER: P594938
 CATALOG NUMBER: IST-PA1A-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2
2.5°	481.7	483.4	480.0	472.5	465.8	449.9	437.4	414.8	390.6	390.6	361.3
5°	538.6	536.9	535.2	529.4	524.4	511.0	494.3	470.0	432.4	429.0	380.5
7.5°	566.2	564.5	561.2	558.7	558.7	549.5	533.6	508.5	466.7	463.3	398.1
10°	598.8	595.5	595.5	588.8	587.1	576.2	567.9	546.1	500.1	495.9	418.2
12.5°	637.3	633.9	634.8	628.9	626.4	614.7	603.0	582.1	536.1	531.9	441.6
15°	659.0	657.3	662.4	663.2	664.9	654.8	644.0	622.2	576.2	570.4	469.2
17.5°	671.6	671.6	677.4	688.3	700.8	695.0	686.6	669.1	617.2	613.9	498.4
20°	695.8	693.3	703.3	713.4	729.3	734.3	731.8	718.4	666.5	656.5	530.2
22.5°	736.0	732.6	741.8	754.4	773.6	775.3	776.9	770.2	716.7	706.7	563.7
25°	830.5	822.1	813.7	812.1	819.6	826.3	821.3	826.3	773.6	764.4	599.6
27.5°	1014.4	1000.2	960.1	915.8	884.8	890.7	874.8	884.0	838.8	827.1	633.1
30°	1190.9	1176.7	1144.1	1065.5	994.4	962.6	939.2	935.8	905.7	892.3	671.6
32.5°	1313.8	1304.7	1282.9	1230.2	1141.6	1060.4	1015.3	999.4	995.2	974.3	720.9
35°	1397.5	1389.1	1374.1	1331.4	1266.2	1175.9	1098.1	1063.0	1094.7	1069.6	776.9
37.5°	1447.7	1441.8	1425.1	1395.8	1360.7	1301.3	1200.9	1144.9	1195.1	1171.7	848.9
40°	1484.5	1469.4	1457.7	1435.1	1423.4	1404.2	1318.0	1230.2	1303.8	1279.6	919.9
42.5°	1487.8	1481.1	1471.9	1458.5	1460.2	1472.7	1442.6	1328.9	1413.4	1390.8	995.2
45°	1487.0	1480.3	1473.6	1460.2	1468.6	1515.4	1543.0	1432.6	1520.4	1497.0	1074.7
47.5°	1462.7	1457.7	1459.4	1459.4	1470.2	1533.8	1620.8	1538.0	1627.5	1604.9	1170.8
50°	1377.4	1382.4	1415.9	1433.4	1452.7	1534.6	1675.1	1648.4	1742.9	1727.0	1263.7
52.5°	1107.3	1135.7	1271.2	1364.0	1420.1	1517.9	1710.3	1764.6	1889.2	1865.0	1369.0
55°	846.3	848.0	978.5	1194.3	1355.7	1487.8	1730.3	1843.2	2000.5	1987.1	1461.9
57.5°	686.6	685.8	750.2	944.2	1188.4	1440.1	1735.4	1900.9	2118.4	2093.3	1568.9
60°	561.2	557.8	596.3	715.9	971.0	1328.1	1717.0	1947.8	2239.6	2230.4	1681.0
62.5°	405.6	409.0	460.0	552.8	748.5	1121.5	1677.6	1962.0	2386.0	2376.8	1806.4
65°	233.3	243.4	299.4	398.1	573.7	877.3	1565.6	1951.1	2529.0	2528.2	1922.7
67.5°	117.1	117.9	148.0	222.5	385.5	656.5	1318.0	1882.5	2647.8	2629.4	1989.6
70°	75.3	76.9	87.0	114.6	213.3	455.0	1006.9	1688.5	2573.3	2566.6	1891.7
72.5°	57.7	59.4	67.7	75.3	111.2	258.4	681.6	1312.2	2148.5	2130.1	1475.3
75°	45.2	46.0	54.4	61.1	74.4	121.3	342.1	817.9	1384.1	1336.4	839.7
77.5°	36.0	36.8	41.0	48.5	56.9	67.7	101.2	368.0	562.8	502.6	272.6
80°	23.4	24.3	30.9	37.6	48.5	44.3	39.3	106.2	120.4	108.7	48.5
82.5°	13.4	14.2	20.9	30.1	36.8	25.1	22.6	30.9	28.4	27.6	15.1
85°	4.2	4.2	14.2	20.9	16.7	7.5	14.2	10.9	9.2	8.4	5.0
87.5°	0.8	0.8	6.7	7.5	2.5	0.8	1.7	2.5	3.3	4.2	2.5
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: P594938
 CATALOG NUMBER: IST-PA1A-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2	346.2
2.5°	347.1	330.3	299.4	272.6	246.7	224.1	208.2	194.0	184.0	181.5	177.3
5°	349.6	317.0	257.6	207.4	163.9	128.8	108.7	95.3	88.6	84.5	84.5
7.5°	352.1	303.6	218.3	151.4	103.7	78.6	66.1	60.2	57.7	56.9	56.0
10°	357.1	293.5	184.8	108.7	71.1	59.4	54.4	51.9	50.2	49.3	49.3
12.5°	365.5	285.2	153.9	80.3	58.5	52.7	49.3	46.0	44.3	43.5	43.5
15°	376.3	279.3	127.1	64.4	53.5	47.7	43.5	40.1	37.6	36.8	36.8
17.5°	391.4	275.1	104.5	56.9	49.3	42.7	37.6	34.3	31.8	30.9	30.9
20°	406.4	275.1	86.1	52.7	45.2	37.6	32.6	28.4	25.9	25.1	25.1
22.5°	426.5	274.3	71.9	48.5	40.1	32.6	27.6	22.6	20.9	20.1	20.1
25°	443.2	274.3	61.9	44.3	35.1	28.4	22.6	18.4	16.7	15.9	15.9
27.5°	463.3	271.8	52.7	39.3	30.1	23.4	18.4	15.1	13.4	12.5	12.5
30°	480.9	268.5	46.8	35.1	25.9	19.2	15.1	11.7	10.9	10.9	10.9
32.5°	510.2	265.9	41.8	30.1	21.7	15.9	11.7	9.2	8.4	8.4	8.4
35°	545.3	265.9	38.5	25.9	18.4	13.4	9.2	7.5	6.7	6.7	6.7
37.5°	591.3	268.5	34.3	22.6	15.1	10.9	7.5	5.9	5.0	5.0	5.0
40°	639.8	274.3	30.9	20.1	13.4	8.4	5.9	4.2	3.3	4.2	4.2
42.5°	697.5	280.2	27.6	17.6	10.9	6.7	4.2	2.5	1.7	2.5	2.5
45°	754.4	286.0	25.9	15.1	9.2	5.0	2.5	1.7	0.8	1.7	1.7
47.5°	824.6	300.2	24.3	13.4	7.5	4.2	1.7	0.8	0.0	0.8	0.8
50°	905.7	316.1	21.7	10.9	5.9	3.3	1.7	0.0	0.0	0.0	0.0
52.5°	983.5	329.5	19.2	9.2	5.0	2.5	0.8	0.0	0.0	0.0	0.0
55°	1061.3	337.9	16.7	7.5	4.2	2.5	0.8	0.0	0.0	0.0	0.0
57.5°	1144.9	342.9	15.1	6.7	3.3	1.7	0.8	0.0	0.0	0.0	0.0
60°	1237.7	342.9	12.5	5.9	2.5	1.7	0.8	0.0	0.0	0.0	0.0
62.5°	1340.6	332.9	11.7	5.0	2.5	1.7	0.8	0.0	0.0	0.0	0.0
65°	1424.2	296.9	10.0	4.2	2.5	1.7	0.8	0.0	0.0	0.0	0.0
67.5°	1427.6	235.0	9.2	3.3	2.5	1.7	0.8	0.0	0.0	0.0	0.0
70°	1272.9	160.6	7.5	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0
72.5°	952.6	86.1	6.7	2.5	1.7	0.8	0.8	0.0	0.0	0.0	0.0
75°	513.5	33.5	4.2	2.5	1.7	0.8	0.8	0.0	0.0	0.0	0.0
77.5°	149.7	16.7	2.5	1.7	1.7	0.8	0.8	0.0	0.0	0.0	0.0
80°	27.6	8.4	1.7	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	3.3	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.7	0.8	0.8	0.8	0.8	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)