

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: P594945

Luminaire Tested: **IST-PA1A-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3415 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

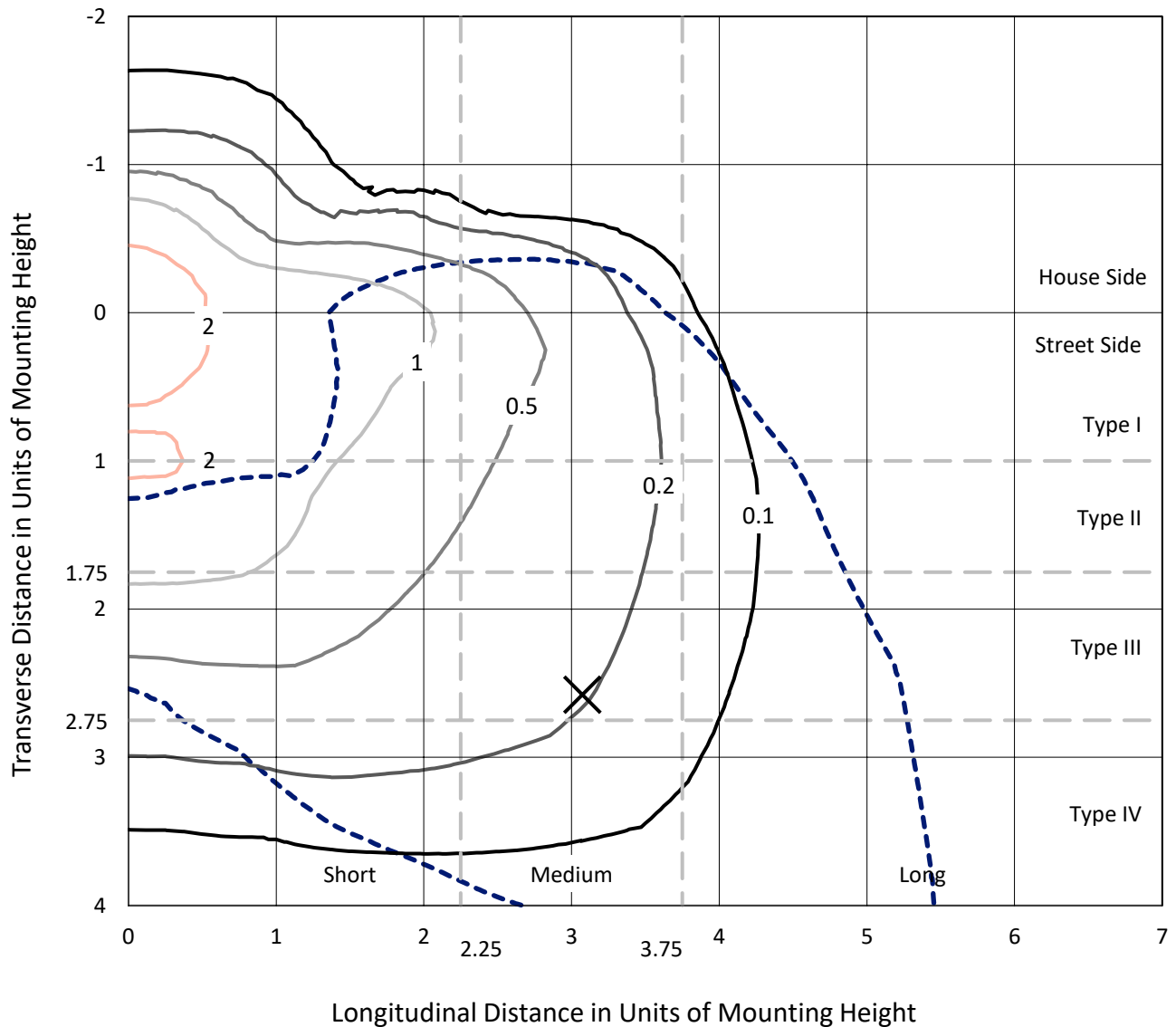
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594945
 CATALOG NUMBER: IST-PA1A-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

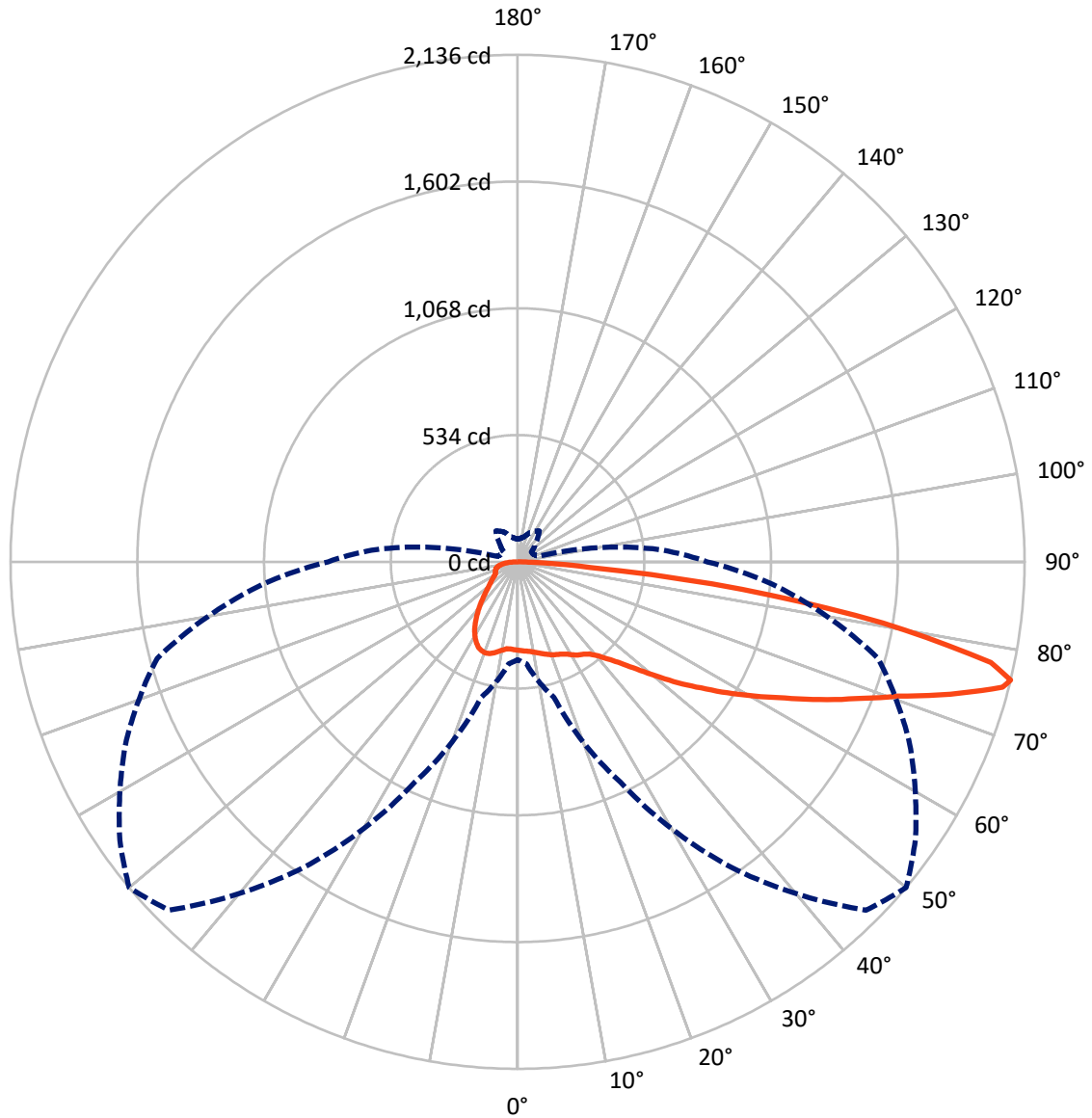
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594945
CATALOG NUMBER: IST-PA1A-727-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

REPORT NUMBER: P594945
 CATALOG NUMBER: IST-PA1A-727-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.2	0.0	781.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2633.8	0.0	2633.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	3415.0	0.0	3415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.1
10°-20°	113.6	3.3
20°-30°	192.0	5.6
30°-40°	263.1	7.7
40°-50°	387.5	11.3
50°-60°	609.6	17.9
60°-70°	877.4	25.7
70°-80°	797.9	23.4
80°-90°	137.7	4.0
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°	3415.0	100.0
0°-180°	3415.0	100.0

Coefficient of Utilization

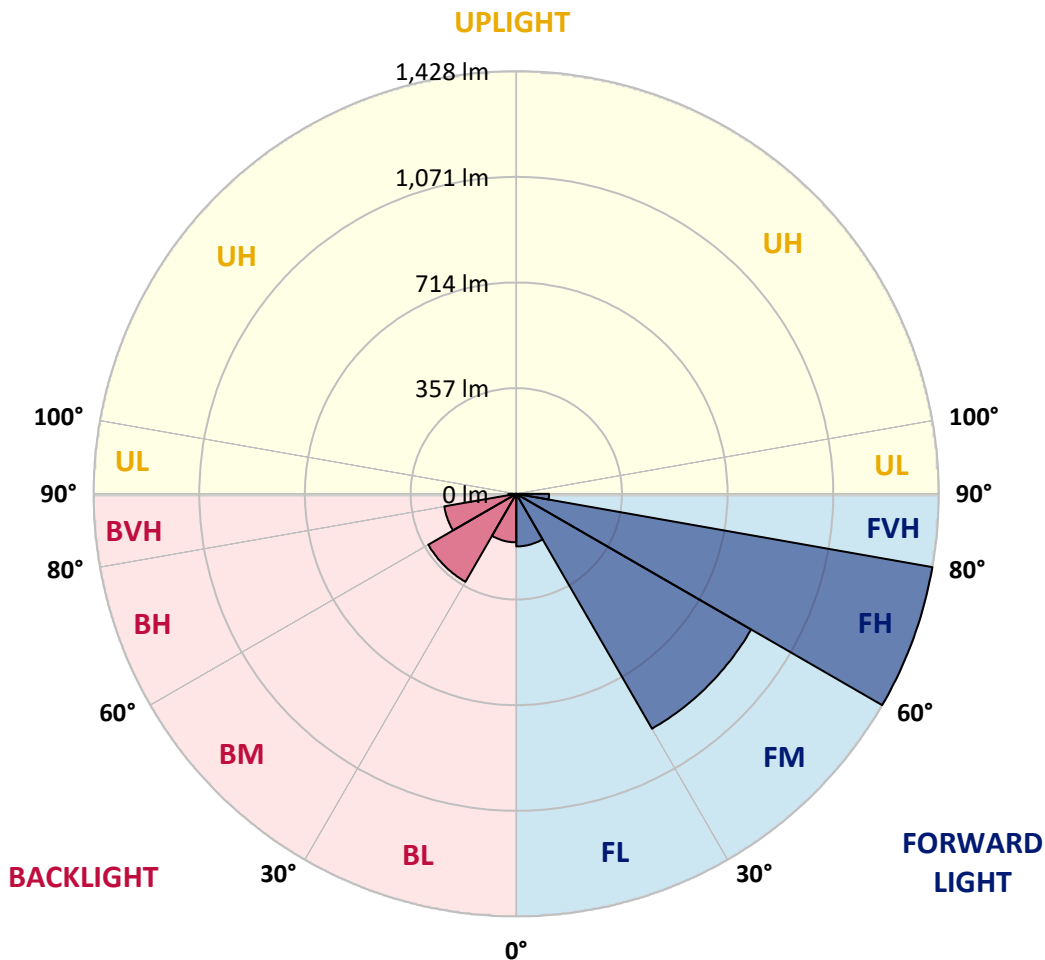


REPORT NUMBER: P594945
 CATALOG NUMBER: IST-PA1A-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.7	5.2			
FM (30°-60°)	916.9	26.8			
FH (60°-80°)	1428.3	41.8			G1/1800
FVH (80°-90°)	110.9	3.2			G2/225
BL (0°-30°)	164.0	4.8	B1/500		
BM (30°-60°)	343.4	10.1	B1/1000		
BH (60°-80°)	247.0	7.2	B1/500		G1/500
BVH (80°-90°)	26.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





REPORT NUMBER: P594945
 CATALOG NUMBER: IST-PA1A-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2
2.5°	380.6	380.6	381.4	379.8	379.8	375.6	375.6	374.7	373.1	372.2	370.6
5°	394.8	394.8	392.3	388.1	385.6	380.6	378.1	376.4	373.1	368.9	364.7
7.5°	409.9	408.2	406.5	399.8	394.8	385.6	381.4	378.9	372.2	366.4	363.9
10°	425.8	423.3	419.1	410.7	403.2	392.3	387.3	383.9	376.4	371.4	365.5
12.5°	435.0	435.0	429.9	419.9	409.9	396.5	394.0	389.8	382.3	375.6	369.7
15°	444.2	445.0	440.0	428.3	416.6	406.5	402.3	399.8	391.5	381.4	373.9
17.5°	453.4	452.5	447.5	434.1	421.6	412.4	409.9	406.5	398.2	389.0	381.4
20°	460.1	458.4	456.7	440.0	427.4	421.6	418.2	415.7	407.4	397.3	387.3
22.5°	461.7	463.4	461.7	441.7	431.6	424.9	424.1	421.6	414.9	405.7	395.6
25°	462.6	463.4	465.9	446.7	437.5	432.5	430.8	429.1	424.1	416.6	403.2
27.5°	466.7	467.6	467.6	450.0	445.0	441.7	440.0	440.0	437.5	428.3	414.9
30°	467.6	468.4	470.1	458.4	456.7	454.2	455.0	454.2	450.0	440.0	424.9
32.5°	473.4	474.3	478.5	463.4	465.1	467.6	468.4	467.6	459.2	450.9	438.3
35°	492.7	491.8	495.2	475.9	474.3	475.1	477.6	476.8	473.4	465.9	457.5
37.5°	554.6	554.6	545.4	505.2	492.7	491.0	492.7	496.9	497.7	491.0	484.3
40°	663.3	657.5	652.4	565.5	525.3	515.3	520.3	522.8	529.5	529.5	529.5
42.5°	775.4	776.2	774.6	659.1	583.9	558.8	559.6	565.5	579.7	582.2	589.7
45°	874.9	880.8	893.3	767.9	670.0	614.0	608.1	614.0	634.0	650.8	670.0
47.5°	952.7	946.0	973.6	881.6	768.7	689.2	674.2	675.9	703.5	730.2	760.3
50°	1019.7	1021.3	1033.9	997.9	893.3	774.6	754.5	751.1	790.5	818.9	869.9
52.5°	1094.9	1089.9	1108.3	1100.0	1014.6	879.1	847.3	837.3	880.0	920.1	975.3
55°	1130.9	1135.9	1173.6	1194.5	1129.2	972.8	937.7	941.0	986.2	1028.9	1105.8
57.5°	1194.5	1199.5	1243.0	1286.5	1231.3	1072.3	1041.4	1041.4	1092.4	1140.1	1258.9
60°	1281.5	1282.3	1326.6	1401.9	1320.8	1168.5	1148.5	1147.6	1202.8	1258.0	1439.6
62.5°	1319.9	1330.0	1396.1	1493.9	1437.9	1286.5	1263.1	1269.8	1319.1	1383.5	1641.1
65°	1268.1	1289.8	1427.8	1555.8	1542.4	1409.4	1400.2	1409.4	1439.6	1509.0	1854.4
67.5°	1096.6	1125.9	1369.3	1597.6	1626.1	1551.6	1538.3	1536.6	1555.8	1633.6	1989.1
70°	1007.9	1025.5	1214.5	1613.5	1693.0	1695.5	1695.5	1684.6	1682.1	1739.0	2001.7
72.5°	829.8	848.2	1024.7	1524.9	1756.6	1887.9	1907.1	1867.0	1805.1	1793.4	1791.7
75°	591.4	604.8	757.0	1199.5	1675.4	2072.8	2111.2	2033.4	1861.1	1674.6	1306.6
76°	412.4	431.6	591.4	1024.7	1573.4	2076.1	2136.3	2046.0	1823.5	1572.6	1076.5
77.5°	209.1	215.8	342.1	688.4	1316.6	1980.8	2039.3	1938.1	1659.5	1270.6	683.4
80°	79.5	82.0	122.1	250.9	722.7	1538.3	1560.8	1424.5	1098.3	542.9	245.9
82.5°	41.8	43.5	68.6	123.8	296.9	845.7	954.4	794.6	430.8	163.1	71.9
85°	20.9	22.6	40.2	75.3	147.2	264.3	306.1	289.4	143.0	61.9	26.8
87.5°	8.4	10.0	20.1	33.5	59.4	51.9	57.7	74.4	46.0	29.3	9.2
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: P594945
 CATALOG NUMBER: IST-PA1A-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2	372.2
2.5°	370.6	369.7	370.6	369.7	370.6	370.6	371.4	369.7	369.7	371.4	368.9
5°	364.7	363.9	364.7	366.4	367.2	368.9	372.2	371.4	373.1	374.7	375.6
7.5°	362.2	361.4	363.9	364.7	367.2	370.6	375.6	378.9	380.6	383.9	382.3
10°	364.7	364.7	368.0	370.6	374.7	378.9	383.1	386.4	390.6	393.1	392.3
12.5°	368.9	368.0	373.9	377.2	383.1	387.3	390.6	392.3	395.6	399.0	398.2
15°	373.1	373.9	382.3	389.0	395.6	397.3	398.2	396.5	398.2	399.8	399.8
17.5°	381.4	382.3	391.5	399.0	404.8	403.2	399.0	394.8	394.8	395.6	396.5
20°	388.1	389.8	400.7	407.4	410.7	404.0	397.3	392.3	389.8	390.6	389.8
22.5°	395.6	399.0	409.9	413.2	408.2	399.8	391.5	384.8	384.8	385.6	385.6
25°	404.8	406.5	414.1	412.4	403.2	390.6	383.9	381.4	380.6	381.4	382.3
27.5°	413.2	414.1	418.2	406.5	389.0	375.6	373.1	373.9	374.7	375.6	376.4
30°	424.1	425.8	421.6	398.2	371.4	356.3	356.3	361.4	363.0	365.5	364.7
32.5°	437.5	439.1	426.6	387.3	348.8	333.7	334.6	342.1	347.1	348.8	349.6
35°	460.1	456.7	429.9	372.2	324.5	306.1	307.0	316.2	322.9	325.4	323.7
37.5°	487.7	486.8	435.0	353.0	294.4	277.7	278.5	282.7	289.4	290.3	291.1
40°	533.7	527.0	443.3	327.9	264.3	248.4	246.8	249.3	248.4	250.1	250.9
42.5°	599.7	582.2	454.2	299.5	237.6	220.8	219.2	215.0	210.0	204.9	202.4
45°	677.5	649.9	467.6	270.2	210.0	194.9	190.7	185.7	175.7	164.8	161.4
47.5°	777.9	725.2	482.6	240.9	184.0	172.3	169.0	161.4	149.7	137.2	134.7
50°	880.8	813.9	497.7	216.6	163.1	156.4	153.1	145.5	130.5	118.8	116.3
52.5°	1000.4	901.7	513.6	194.9	144.7	144.7	142.2	130.5	116.3	105.4	103.7
55°	1138.4	992.0	538.7	174.0	131.3	134.7	131.3	119.6	106.2	98.7	97.9
57.5°	1303.2	1106.6	570.5	151.4	119.6	122.1	122.1	113.8	104.6	99.5	98.7
60°	1468.8	1222.9	590.5	134.7	110.4	112.9	117.9	113.8	107.9	105.4	104.6
62.5°	1627.8	1341.7	556.2	120.5	101.2	108.7	121.3	122.1	116.3	117.1	117.1
65°	1746.5	1432.0	450.0	107.9	95.4	111.2	131.3	132.2	122.1	119.6	118.8
67.5°	1787.5	1457.1	302.8	99.5	92.0	112.9	143.0	139.7	122.1	117.1	114.6
70°	1709.7	1365.1	196.6	92.0	87.0	111.2	152.2	143.9	121.3	113.8	110.4
72.5°	1433.7	1164.4	131.3	85.3	82.0	109.6	158.1	143.9	118.8	107.9	104.6
75°	995.4	795.5	97.9	77.0	74.4	107.1	159.8	141.4	112.9	101.2	98.7
76°	798.8	596.4	88.7	73.6	71.1	105.4	158.9	138.9	108.7	97.9	95.4
77.5°	504.4	343.0	74.4	67.8	66.1	102.0	155.6	133.0	102.9	92.0	89.5
80°	176.5	125.5	56.9	55.2	56.0	94.5	146.4	121.3	91.2	81.1	77.8
82.5°	70.3	57.7	42.7	42.7	44.3	81.1	132.2	107.1	79.5	66.9	61.9
85°	27.6	25.1	30.1	30.1	31.8	66.1	110.4	83.6	54.4	41.8	40.2
87.5°	8.4	11.7	13.4	14.2	15.1	33.5	62.7	36.8	24.3	17.6	14.2
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)