

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: P594954

Luminaire Tested: **IST-PA1A-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594954
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-730-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 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: 3718 lumens
Efficiency: N/A
Efficacy: 129.1 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

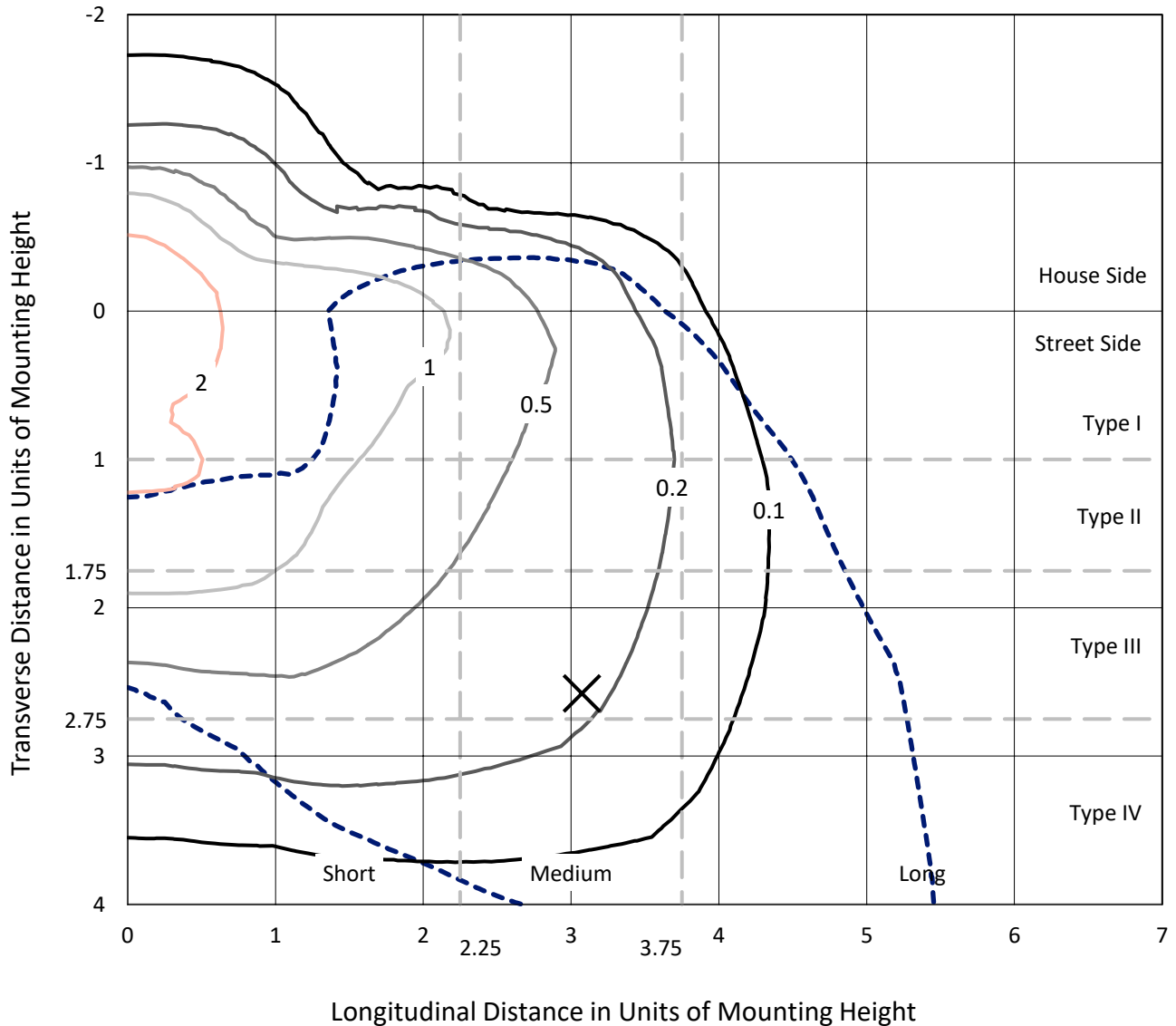
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

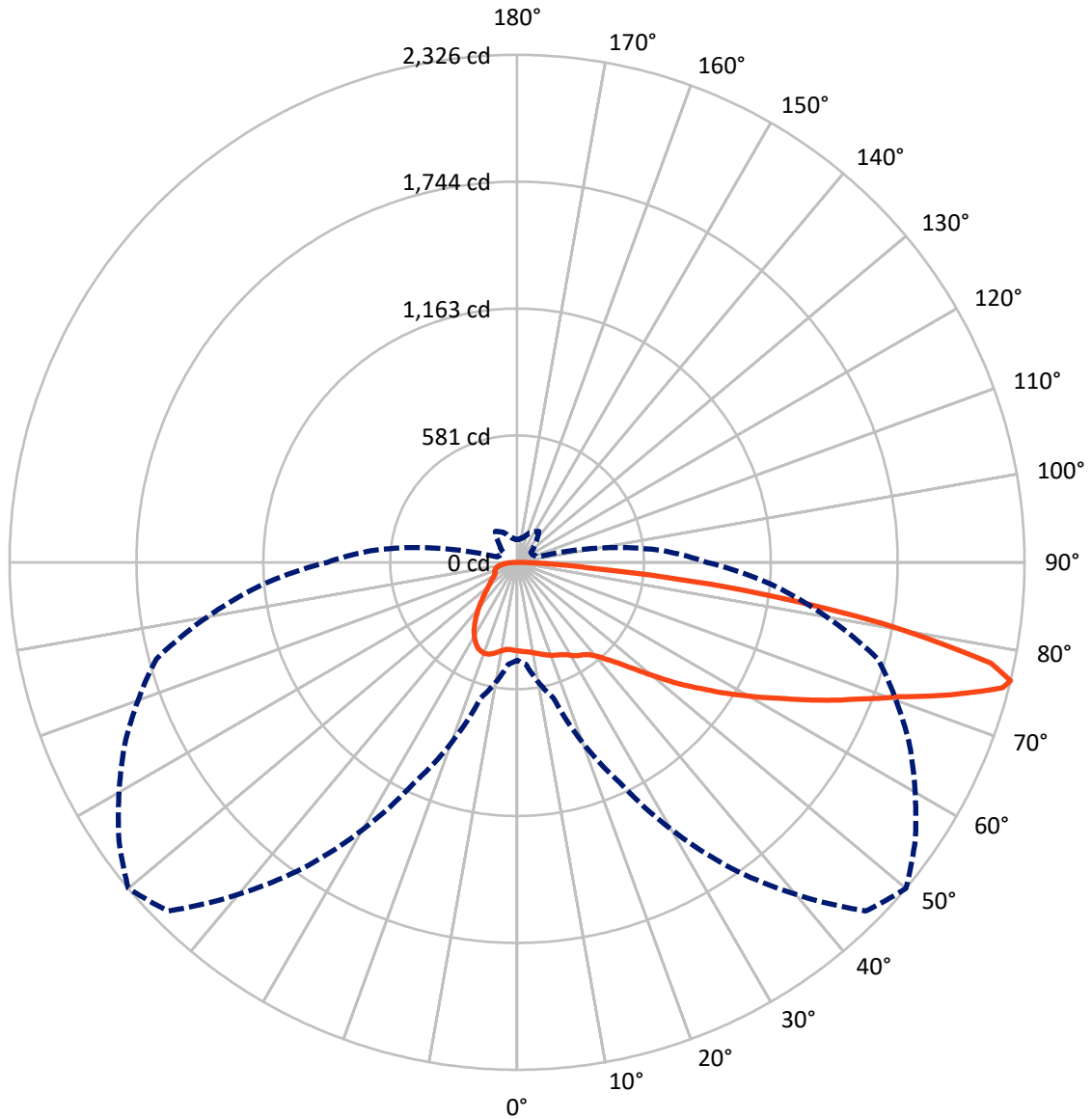
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.5	0.0	850.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2867.5	0.0	2867.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	3718.0	0.0	3718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	1.1
10°-20°	123.7	3.3
20°-30°	209.0	5.6
30°-40°	286.5	7.7
40°-50°	421.9	11.3
50°-60°	663.7	17.9
60°-70°	955.3	25.7
70°-80°	868.6	23.4
80°-90°	150.0	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°	3718.0	100.0
0°-180°	3718.0	100.0

Coefficient of Utilization

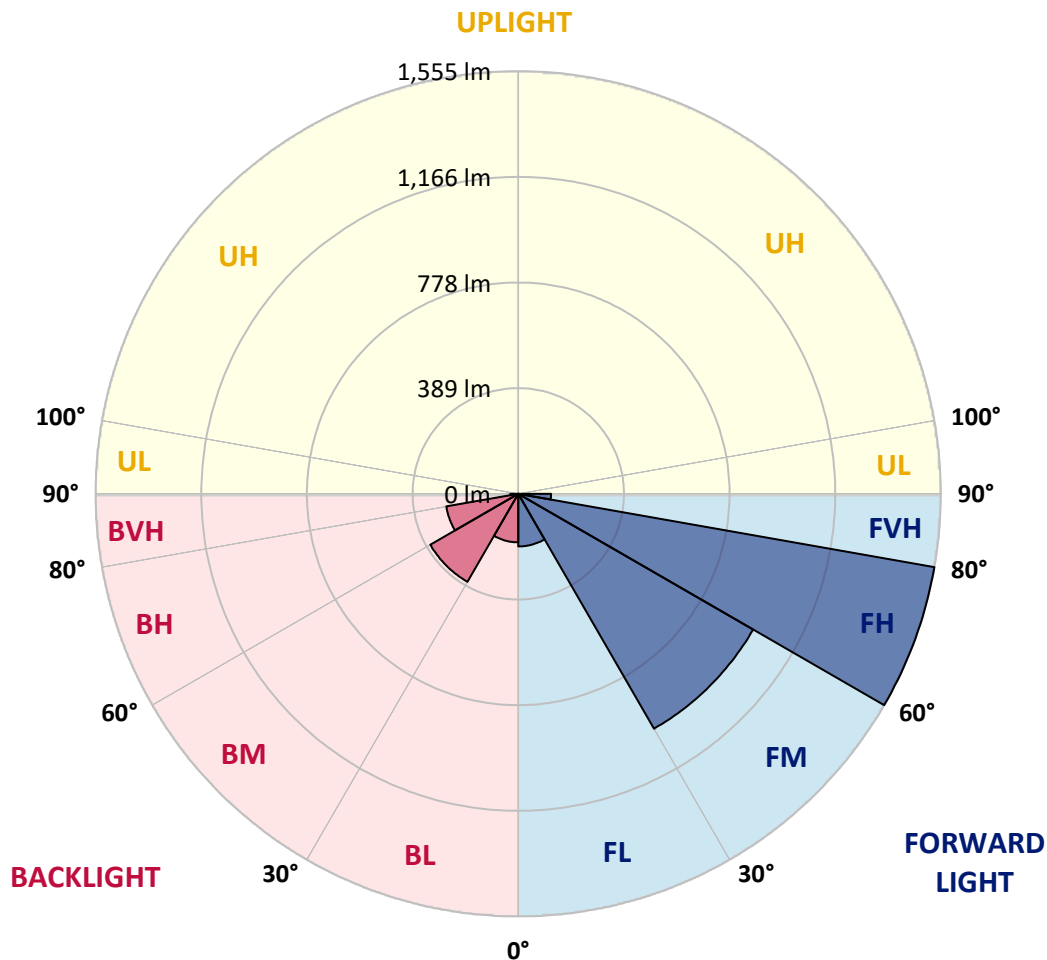


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.5	5.2			
FM (30°-60°)	998.2	26.8			
FH (60°-80°)	1555.0	41.8			G1/1800
FVH (80°-90°)	120.7	3.2			G2/225
BL (0°-30°)	178.6	4.8	B1/500		
BM (30°-60°)	373.8	10.1	B1/1000		
BH (60°-80°)	268.9	7.2	B1/500		G1/500
BVH (80°-90°)	29.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	414.4	414.4	415.3	413.4	413.4	408.9	408.9	408.0	406.2	405.3	403.4
5°	429.8	429.8	427.1	422.6	419.8	414.4	411.6	409.8	406.2	401.6	397.1
7.5°	446.2	444.4	442.6	435.3	429.8	419.8	415.3	412.5	405.3	398.9	396.1
10°	463.5	460.8	456.3	447.1	438.9	427.1	421.6	418.0	409.8	404.3	398.0
12.5°	473.6	473.6	468.1	457.2	446.2	431.7	428.9	424.4	416.2	408.9	402.5
15°	483.6	484.5	479.0	466.3	453.5	442.6	438.0	435.3	426.2	415.3	407.1
17.5°	493.6	492.7	487.2	472.6	459.0	449.0	446.2	442.6	433.5	423.5	415.3
20°	500.9	499.1	497.2	479.0	465.4	459.0	455.3	452.6	443.5	432.6	421.6
22.5°	502.7	504.5	502.7	480.8	469.9	462.6	461.7	459.0	451.7	441.7	430.8
25°	503.6	504.5	507.2	486.3	476.3	470.8	469.0	467.2	461.7	453.5	438.9
27.5°	508.2	509.1	509.1	489.9	484.5	480.8	479.0	479.0	476.3	466.3	451.7
30°	509.1	510.0	511.8	499.1	497.2	494.5	495.4	494.5	489.9	479.0	462.6
32.5°	515.4	516.4	520.9	504.5	506.3	509.1	510.0	509.1	500.0	490.9	477.2
35°	536.4	535.5	539.1	518.2	516.4	517.3	520.0	519.1	515.4	507.2	498.1
37.5°	603.8	603.8	593.8	550.1	536.4	534.6	536.4	540.9	541.9	534.6	527.3
40°	722.2	715.8	710.3	615.6	571.9	561.0	566.4	569.2	576.5	576.5	576.5
42.5°	844.2	845.1	843.3	717.6	635.7	608.3	609.2	615.6	631.1	633.8	642.0
45°	952.6	958.9	972.6	836.0	729.5	668.4	662.1	668.4	690.3	708.5	729.5
47.5°	1037.3	1030.0	1060.0	959.9	836.9	750.4	734.0	735.8	765.9	795.0	827.8
50°	1110.1	1111.9	1125.6	1086.4	972.6	843.3	821.4	817.8	860.6	891.6	947.1
52.5°	1192.1	1186.6	1206.7	1197.5	1104.7	957.1	922.5	911.6	958.0	1001.8	1061.9
55°	1231.2	1236.7	1277.7	1300.5	1229.4	1059.1	1020.9	1024.5	1073.7	1120.1	1203.9
57.5°	1300.5	1305.9	1353.3	1400.6	1340.5	1167.5	1133.8	1133.8	1189.4	1241.3	1370.6
60°	1395.2	1396.1	1444.3	1526.3	1438.0	1272.2	1250.4	1249.5	1309.6	1369.7	1567.3
62.5°	1437.1	1448.0	1519.9	1626.5	1565.5	1400.6	1375.1	1382.4	1436.1	1506.3	1786.8
65°	1380.6	1404.3	1554.5	1693.9	1679.3	1534.5	1524.5	1534.5	1567.3	1642.9	2019.0
67.5°	1193.9	1225.8	1490.8	1739.4	1770.4	1689.3	1674.7	1672.9	1693.9	1778.6	2165.6
70°	1097.4	1116.5	1322.3	1756.7	1843.2	1846.0	1846.0	1834.1	1831.4	1893.3	2179.3
72.5°	903.4	923.4	1115.6	1660.2	1912.4	2055.4	2076.4	2032.6	1965.3	1952.5	1950.7
75°	643.9	658.4	824.2	1305.9	1824.1	2256.7	2298.6	2213.9	2026.3	1823.2	1422.5
76°	449.0	469.9	643.9	1115.6	1713.0	2260.3	2325.9	2227.5	1985.3	1712.1	1172.0
77.5°	227.7	235.0	372.5	749.5	1433.4	2156.5	2220.2	2110.1	1806.8	1383.3	744.0
80°	86.5	89.2	133.0	273.2	786.8	1674.7	1699.3	1550.9	1195.7	591.0	267.7
82.5°	45.5	47.4	74.7	134.8	323.3	920.7	1039.1	865.1	469.0	177.6	78.3
85°	22.8	24.6	43.7	82.0	160.3	287.8	333.3	315.1	155.7	67.4	29.1
87.5°	9.1	10.9	21.9	36.4	64.7	56.5	62.8	81.1	50.1	31.9	10.0
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°	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3	405.3
2.5°	403.4	402.5	403.4	402.5	403.4	403.4	404.3	402.5	402.5	404.3	401.6
5°	397.1	396.1	397.1	398.9	399.8	401.6	405.3	404.3	406.2	408.0	408.9
7.5°	394.3	393.4	396.1	397.1	399.8	403.4	408.9	412.5	414.4	418.0	416.2
10°	397.1	397.1	400.7	403.4	408.0	412.5	417.1	420.7	425.3	428.0	427.1
12.5°	401.6	400.7	407.1	410.7	417.1	421.6	425.3	427.1	430.8	434.4	433.5
15°	406.2	407.1	416.2	423.5	430.8	432.6	433.5	431.7	433.5	435.3	435.3
17.5°	415.3	416.2	426.2	434.4	440.8	438.9	434.4	429.8	429.8	430.8	431.7
20°	422.6	424.4	436.2	443.5	447.1	439.9	432.6	427.1	424.4	425.3	424.4
22.5°	430.8	434.4	446.2	449.9	444.4	435.3	426.2	418.9	418.9	419.8	419.8
25°	440.8	442.6	450.8	449.0	438.9	425.3	418.0	415.3	414.4	415.3	416.2
27.5°	449.9	450.8	455.3	442.6	423.5	408.9	406.2	407.1	408.0	408.9	409.8
30°	461.7	463.5	459.0	433.5	404.3	388.0	388.0	393.4	395.2	398.0	397.1
32.5°	476.3	478.1	464.4	421.6	379.8	363.4	364.3	372.5	377.9	379.8	380.7
35°	500.9	497.2	468.1	405.3	353.3	333.3	334.2	344.2	351.5	354.3	352.4
37.5°	530.9	530.0	473.6	384.3	320.6	302.3	303.3	307.8	315.1	316.0	316.9
40°	581.0	573.7	482.7	357.0	287.8	270.5	268.7	271.4	270.5	272.3	273.2
42.5°	653.0	633.8	494.5	326.0	258.6	240.4	238.6	234.0	228.6	223.1	220.4
45°	737.7	707.6	509.1	294.2	228.6	212.2	207.6	202.2	191.2	179.4	175.8
47.5°	846.9	789.6	525.5	262.3	200.4	187.6	184.0	175.8	163.0	149.4	146.6
50°	958.9	886.1	541.9	235.9	177.6	170.3	166.7	158.5	142.1	129.3	126.6
52.5°	1089.2	981.7	559.2	212.2	157.5	157.5	154.8	142.1	126.6	114.7	112.9
55°	1239.4	1080.1	586.5	189.4	143.0	146.6	143.0	130.2	115.7	107.5	106.5
57.5°	1418.8	1204.8	621.1	164.8	130.2	133.0	133.0	123.9	113.8	108.4	107.5
60°	1599.2	1331.4	642.9	146.6	120.2	122.9	128.4	123.9	117.5	114.7	113.8
62.5°	1772.2	1460.7	605.6	131.1	110.2	118.4	132.0	133.0	126.6	127.5	127.5
65°	1901.5	1559.1	489.9	117.5	103.8	121.1	143.0	143.9	133.0	130.2	129.3
67.5°	1946.1	1586.4	329.7	108.4	100.2	122.9	155.7	152.1	133.0	127.5	124.8
70°	1861.4	1486.2	214.0	100.2	94.7	121.1	165.7	156.6	132.0	123.9	120.2
72.5°	1560.9	1267.7	143.0	92.9	89.2	119.3	172.1	156.6	129.3	117.5	113.8
75°	1083.7	866.1	106.5	83.8	81.1	116.6	173.9	153.9	122.9	110.2	107.5
76°	869.7	649.3	96.5	80.1	77.4	114.7	173.0	151.2	118.4	106.5	103.8
77.5°	549.1	373.4	81.1	73.8	71.9	111.1	169.4	144.8	112.0	100.2	97.4
80°	192.2	136.6	61.9	60.1	61.0	102.9	159.4	132.0	99.3	88.3	84.7
82.5°	76.5	62.8	46.4	46.4	48.3	88.3	143.9	116.6	86.5	72.9	67.4
85°	30.1	27.3	32.8	32.8	34.6	71.9	120.2	91.1	59.2	45.5	43.7
87.5°	9.1	12.7	14.6	15.5	16.4	36.4	68.3	40.1	26.4	19.1	15.5
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)