

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: STREETWORKS

Report Number: P476942

Luminaire Tested: **IFLD-S-SA2A-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

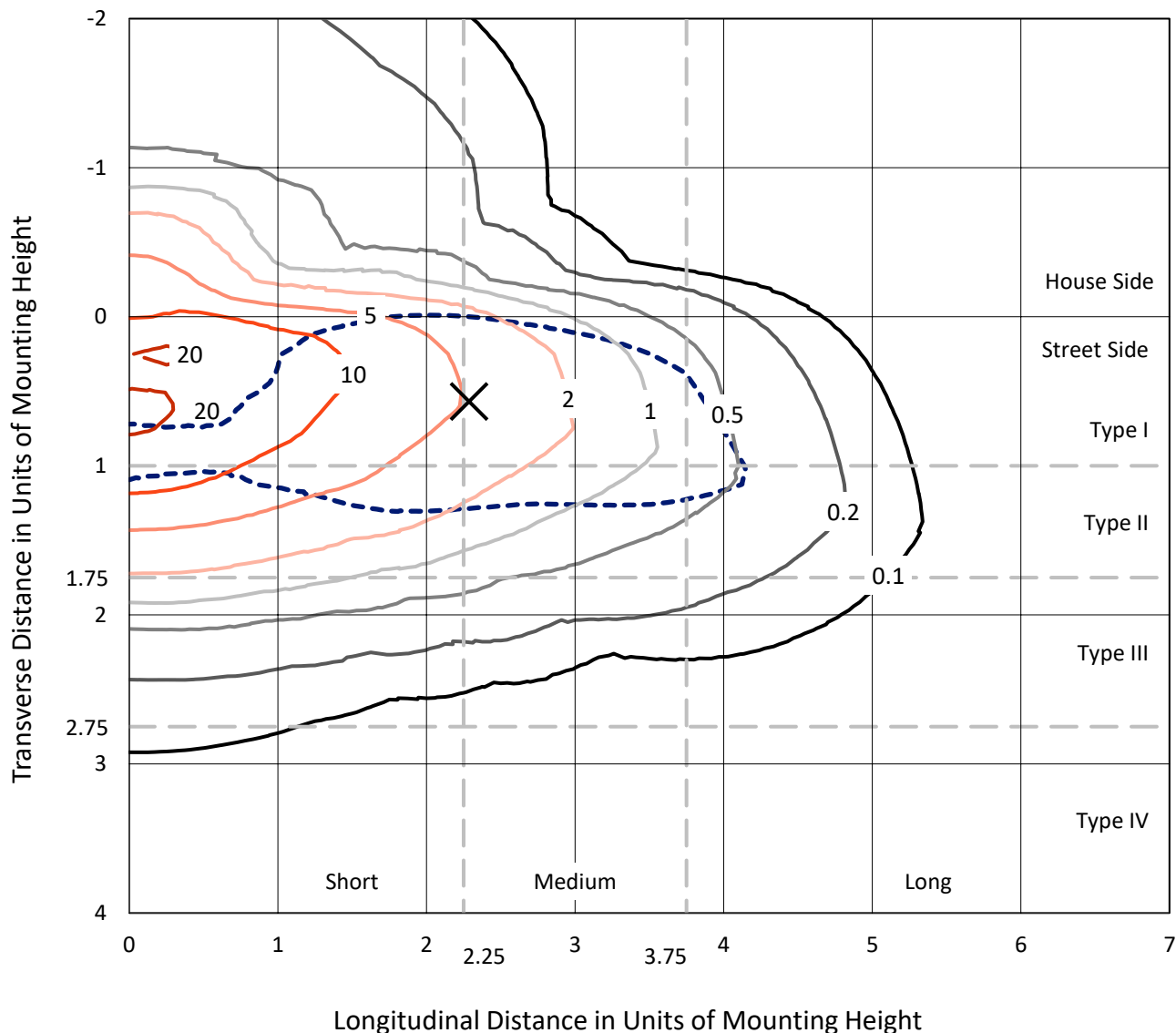
Lumens per Lamp: N/A
Luminaire Lumens: 9156.9 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
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: 24 FT

REPORT NUMBER: P476942
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

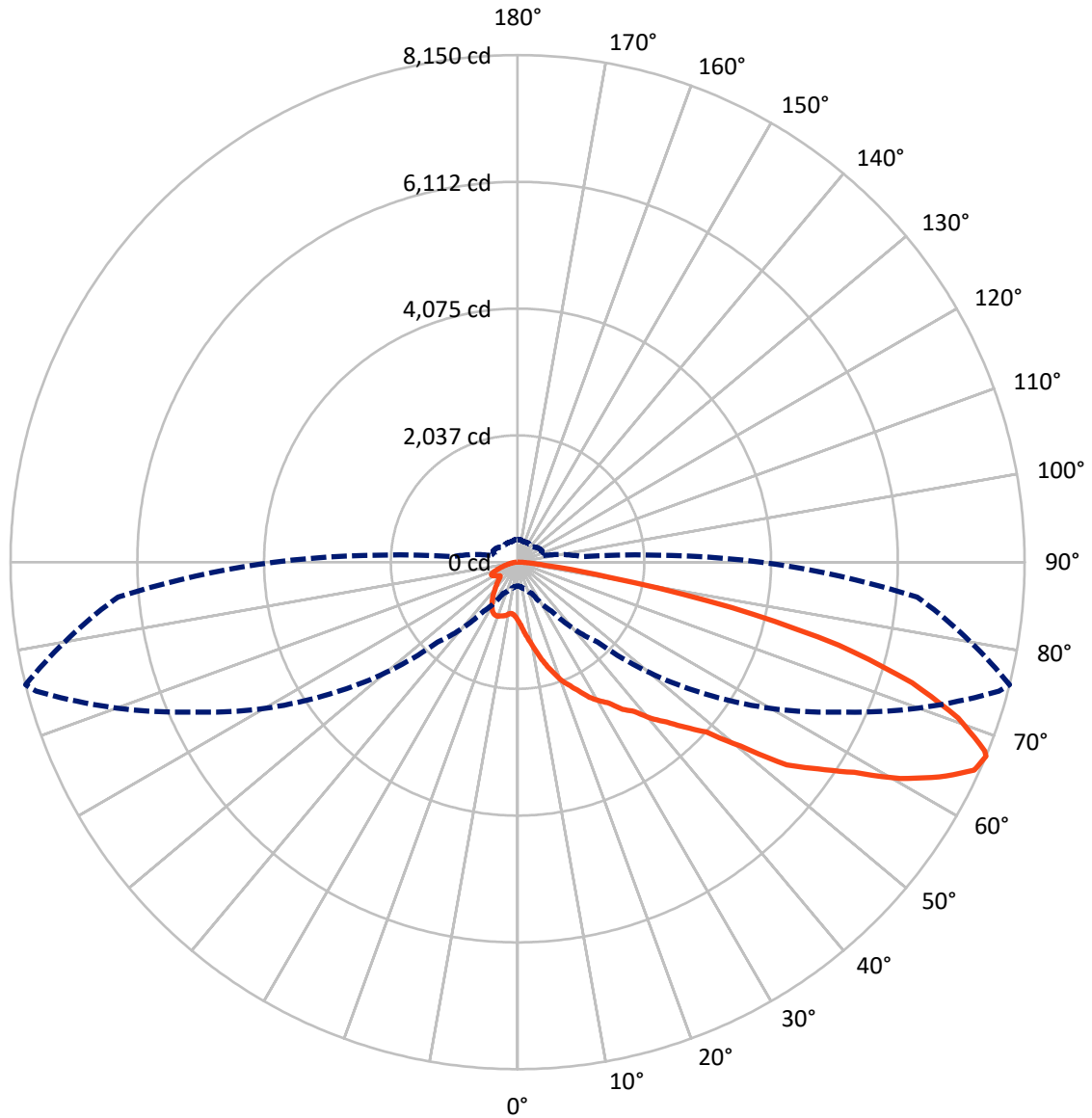
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P476942
CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476942
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1302.7	0.0	1302.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7854.2	0.0	7854.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	9156.9	0.0	9156.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.2
10°-20°	407.1	4.4
20°-30°	756.9	8.3
30°-40°	1199.8	13.1
40°-50°	1659.4	18.1
50°-60°	2041.2	22.3
60°-70°	1899.4	20.7
70°-80°	953.1	10.4
80°-90°	131.4	1.4
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°	9156.9	100.0
0°-180°	9156.9	100.0

Coefficient of Utilization



REPORT NUMBER: P476942

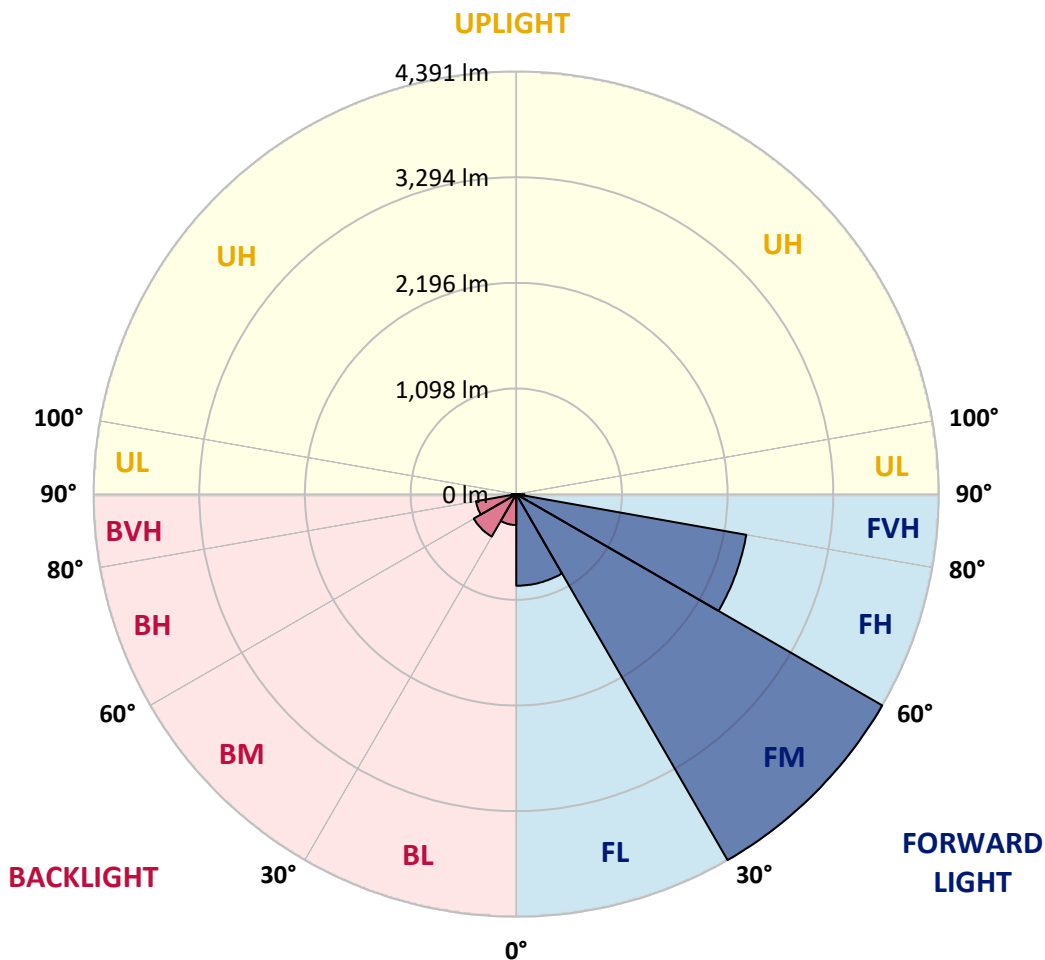
CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.7	10.4			
FM (30°-60°)	4391.4	48.0			
FH (60°-80°)	2427.4	26.5			G2/5000
FVH (80°-90°)	83.7	0.9			G1/100
BL (0°-30°)	320.8	3.5	B1/500		
BM (30°-60°)	509.1	5.6	B1/1000		
BH (60°-80°)	425.1	4.6	B1/500		G1/500
BVH (80°-90°)	47.7	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-G2

Type II Medium





REPORT NUMBER: P476942
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1
2.5°	1300.2	1284.6	1268.9	1235.5	1224.0	1192.7	1135.3	1071.7	1019.5	1012.2	975.7
5°	1613.3	1590.3	1585.1	1566.3	1506.8	1446.3	1352.4	1250.1	1122.8	1132.2	1007.0
7.5°	1848.1	1834.5	1806.3	1788.6	1753.1	1672.7	1575.7	1440.0	1278.3	1247.0	1076.9
10°	2025.4	2006.7	2005.6	1990.0	1971.2	1888.7	1814.7	1632.0	1424.4	1381.6	1162.5
12.5°	2115.2	2112.1	2167.4	2167.4	2160.1	2125.6	1998.3	1831.4	1563.2	1548.6	1261.6
15°	2212.2	2186.1	2234.2	2270.7	2289.5	2307.2	2201.8	2025.4	1740.6	1712.4	1368.0
17.5°	2212.2	2210.1	2258.2	2318.7	2416.8	2439.7	2382.3	2203.9	1887.7	1866.8	1484.9
20°	2174.7	2204.9	2238.3	2319.7	2426.2	2519.0	2535.7	2386.5	2050.5	2033.8	1617.4
22.5°	2350.0	2320.8	2355.2	2386.5	2468.9	2609.8	2655.7	2547.2	2221.6	2158.0	1737.4
25°	2644.2	2624.4	2599.4	2553.5	2587.9	2649.5	2719.4	2666.2	2367.7	2296.8	1853.3
27.5°	2931.2	2932.3	2878.0	2777.8	2703.7	2716.3	2798.7	2770.5	2490.9	2459.5	1932.6
30°	3339.2	3314.2	3253.7	3118.0	2973.0	2854.0	2840.4	2867.6	2647.4	2586.9	2046.3
32.5°	3645.0	3650.2	3564.6	3369.5	3171.2	3074.2	2955.2	2966.7	2746.5	2701.6	2137.1
35°	3892.3	3886.0	3825.5	3663.8	3429.0	3312.1	3151.4	3085.7	2977.1	2906.2	2275.9
37.5°	4159.4	4108.3	4010.2	3827.6	3677.3	3515.6	3359.1	3210.9	3130.5	3045.0	2394.9
40°	4266.9	4266.9	4135.4	4051.9	3873.5	3751.4	3650.2	3375.7	3317.3	3300.6	2547.2
42.5°	4190.7	4237.7	4183.4	4088.5	4015.4	3861.0	3833.8	3546.9	3547.9	3514.5	2729.8
45°	4183.4	4118.7	4073.9	4097.9	4063.4	4055.1	4123.9	3783.8	3790.0	3785.8	2975.0
47.5°	3973.7	3944.5	4011.2	4050.9	4079.1	4208.5	4406.7	4066.6	4111.4	4080.1	3257.8
50°	3765.0	3759.8	3801.5	3945.5	4067.6	4280.5	4676.0	4502.7	4649.9	4647.8	3770.2
52.5°	3193.1	3248.4	3412.3	3717.0	4018.5	4378.6	4879.4	5060.0	5340.7	5416.8	4194.9
55°	2646.3	2617.1	2859.2	3301.7	3804.6	4417.2	5106.9	5394.9	5808.2	5863.5	4631.1
57.5°	2058.8	2113.1	2304.1	2728.8	3362.2	4226.2	5273.9	5725.7	6336.2	6379.0	5137.2
60°	1536.0	1543.3	1753.1	2095.4	2773.6	3795.2	5328.2	6064.9	6941.4	7063.5	5667.3
62.5°	966.3	1010.1	1169.8	1506.8	2088.1	3192.1	5085.0	6270.4	7575.9	7608.2	6201.6
65°	520.7	548.9	668.9	880.7	1458.8	2414.7	4440.1	6147.3	7874.3	8066.3	6439.5
67°	385.1	390.3	445.6	562.5	975.7	1817.8	3702.4	5701.7	8010.0	8149.8	6448.9
67.5°	361.1	368.4	412.2	505.1	865.1	1673.8	3509.3	5543.1	7949.4	8099.7	6375.8
70°	308.9	311.0	321.4	347.5	485.2	1007.0	2389.6	4542.4	7368.2	7512.2	5863.5
72.5°	274.4	276.5	280.7	285.9	328.7	582.3	1453.6	3495.8	6404.0	6633.6	5058.9
75°	241.1	248.4	250.4	246.3	279.7	378.8	773.2	2569.1	5223.8	5335.5	3934.0
77.5°	204.5	207.7	211.8	216.0	249.4	282.8	371.5	1734.3	3585.5	3517.7	2127.7
80°	172.2	173.2	176.4	179.5	216.0	216.0	210.8	937.1	1566.3	1497.4	719.0
82.5°	123.1	130.4	137.7	146.1	179.5	145.0	137.7	417.4	495.7	471.7	243.1
85°	48.0	58.4	90.8	100.2	113.7	78.3	91.8	180.5	206.6	204.5	90.8
87.5°	8.3	9.4	25.0	38.6	41.7	27.1	43.8	64.7	77.2	83.5	33.4
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: P476942
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1	937.1
2.5°	945.4	913.1	874.5	835.8	810.8	771.2	768.0	744.0	740.9	732.5	736.7
5°	952.7	914.1	835.8	774.3	746.1	723.2	728.4	717.9	714.8	709.6	701.2
7.5°	1010.1	933.9	817.1	763.8	743.0	732.5	732.5	720.0	710.6	716.9	723.2
10°	1047.7	943.3	831.7	778.5	761.8	738.8	747.2	731.5	736.7	724.2	724.2
12.5°	1108.2	996.6	861.9	800.4	773.2	752.4	760.7	743.0	738.8	739.8	736.7
15°	1189.6	1032.0	875.5	812.9	794.1	768.0	761.8	746.1	730.5	725.2	731.5
17.5°	1265.8	1075.9	884.9	820.2	789.9	760.7	753.4	733.6	728.4	712.7	700.2
20°	1356.6	1128.0	897.4	826.5	774.3	745.1	726.3	706.5	688.7	679.3	683.5
22.5°	1417.1	1155.2	903.7	813.9	751.3	724.2	684.5	671.0	645.9	635.5	627.1
25°	1516.2	1188.6	888.0	779.5	710.6	666.8	631.3	612.5	594.8	581.2	577.1
27.5°	1541.3	1213.6	851.5	721.1	645.9	600.0	569.8	546.8	535.3	514.4	510.3
30°	1614.3	1188.6	797.2	650.1	584.4	537.4	507.1	490.4	463.3	458.1	446.6
32.5°	1661.3	1195.9	728.4	581.2	513.4	471.7	451.8	435.1	427.8	402.8	396.5
35°	1739.5	1170.8	658.5	517.6	455.0	422.6	405.9	400.7	376.7	365.2	354.8
37.5°	1789.6	1156.2	588.5	445.6	391.3	377.7	383.0	361.1	331.8	309.9	302.6
40°	1877.3	1151.0	509.2	386.1	347.5	344.4	361.1	319.3	266.1	247.3	236.9
42.5°	2003.5	1115.5	447.7	332.9	313.1	326.6	329.7	266.1	235.8	220.2	212.9
45°	2124.6	1122.8	387.1	275.5	272.4	292.2	284.9	225.4	207.7	196.2	202.4
47.5°	2357.3	1159.3	327.7	229.6	245.2	264.0	221.2	201.4	184.7	176.4	177.4
50°	2717.3	1194.8	275.5	209.7	231.7	239.0	189.9	182.6	181.6	164.9	163.8
52.5°	2933.3	1181.3	266.1	234.8	248.4	239.0	206.6	201.4	193.0	185.7	177.4
55°	3276.6	1220.9	285.9	274.4	281.7	229.6	231.7	229.6	223.3	204.5	209.7
57.5°	3550.0	1247.0	312.0	306.8	302.6	239.0	242.1	243.1	239.0	230.6	237.9
60°	3925.7	1299.2	339.1	340.2	341.2	259.8	265.1	271.3	270.3	267.1	269.2
62.5°	4156.3	1275.2	369.4	386.1	380.9	302.6	301.6	305.7	305.7	311.0	314.1
65°	4121.9	1186.5	385.1	426.8	399.7	333.9	333.9	336.0	337.1	347.5	348.5
67°	3915.2	1027.9	376.7	433.1	399.7	346.4	346.4	348.5	341.2	368.4	360.0
67.5°	3819.2	980.9	369.4	427.8	396.5	345.4	345.4	346.4	340.2	366.3	357.9
70°	3321.5	728.4	318.3	378.8	367.3	336.0	336.0	329.7	324.5	359.0	351.7
72.5°	2835.2	529.1	255.7	322.4	331.8	323.5	325.6	309.9	295.3	319.3	313.1
75°	2171.5	389.2	199.3	248.4	280.7	302.6	316.2	276.5	257.7	264.0	252.5
77.5°	1211.5	253.6	157.6	183.7	213.9	281.7	303.7	249.4	210.8	203.5	203.5
80°	411.1	148.2	115.8	136.7	147.1	249.4	283.8	202.4	165.9	158.6	153.4
82.5°	155.5	90.8	79.3	93.9	93.9	197.2	231.7	155.5	125.2	161.7	164.9
85°	71.0	54.3	52.2	54.3	54.3	121.0	163.8	101.2	112.7	97.0	85.6
87.5°	28.2	26.1	24.0	23.0	18.8	20.9	56.3	27.1	51.1	13.6	12.5
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)