

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: P477103

Luminaire Tested: **IFLD-S-SA3A-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477103
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10170.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

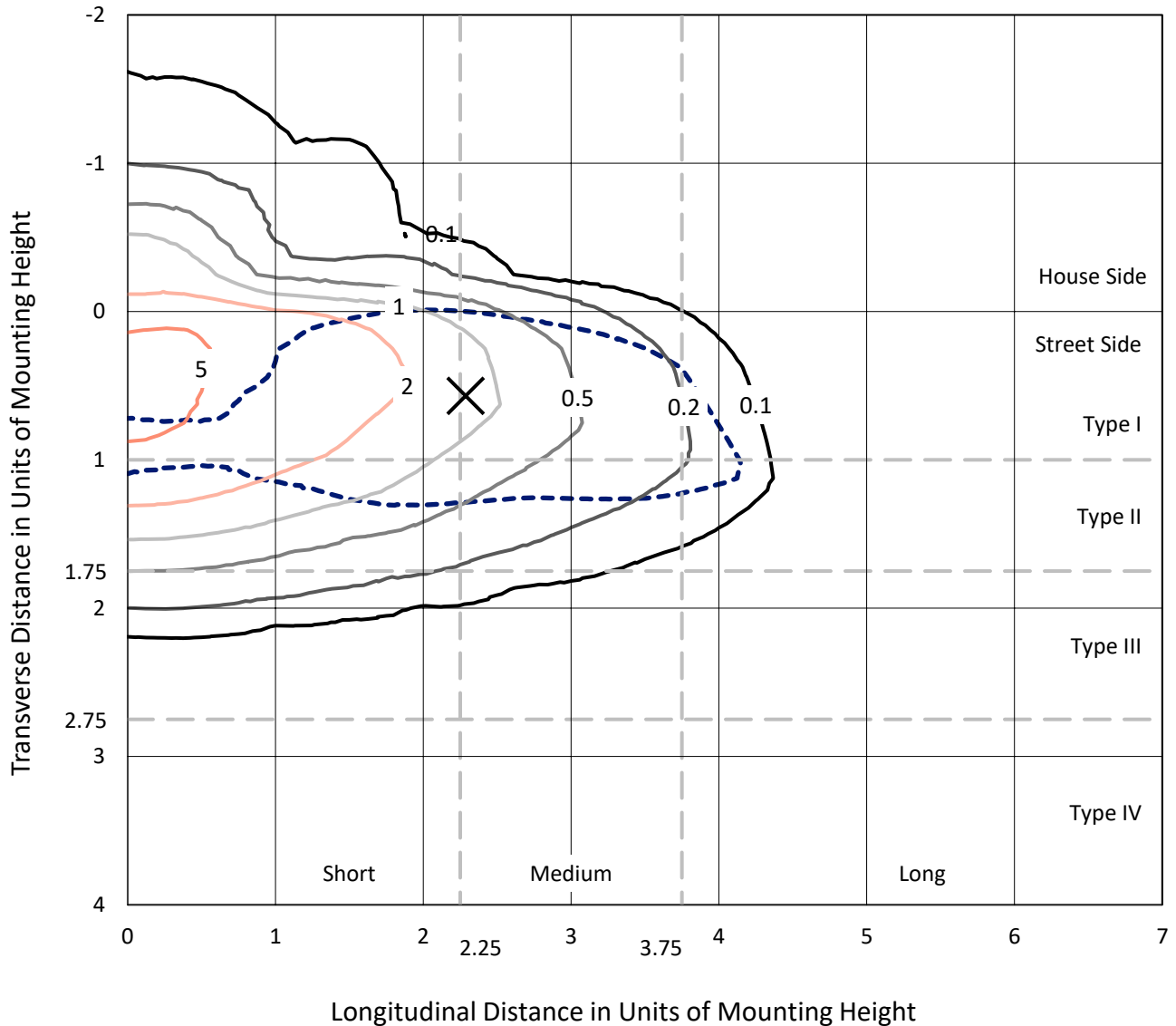
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

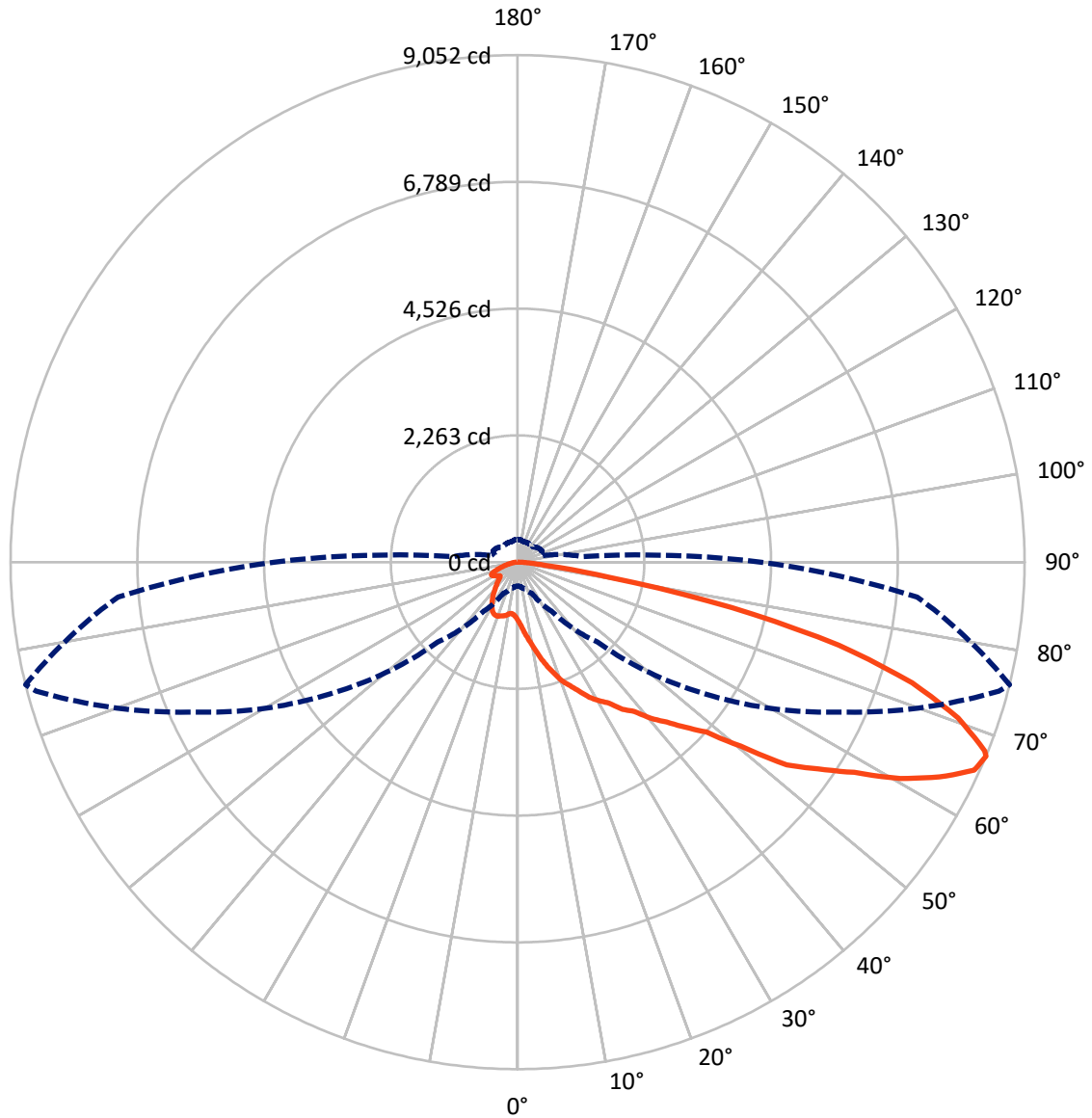
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1446.9	0.0	1446.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8723.8	0.0	8723.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	10170.7	0.0	10170.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	1.2
10°-20°	452.2	4.4
20°-30°	840.7	8.3
30°-40°	1332.6	13.1
40°-50°	1843.2	18.1
50°-60°	2267.2	22.3
60°-70°	2109.7	20.7
70°-80°	1058.6	10.4
80°-90°	146.0	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°	10170.7	100.0
0°-180°	10170.7	100.0

Coefficient of Utilization



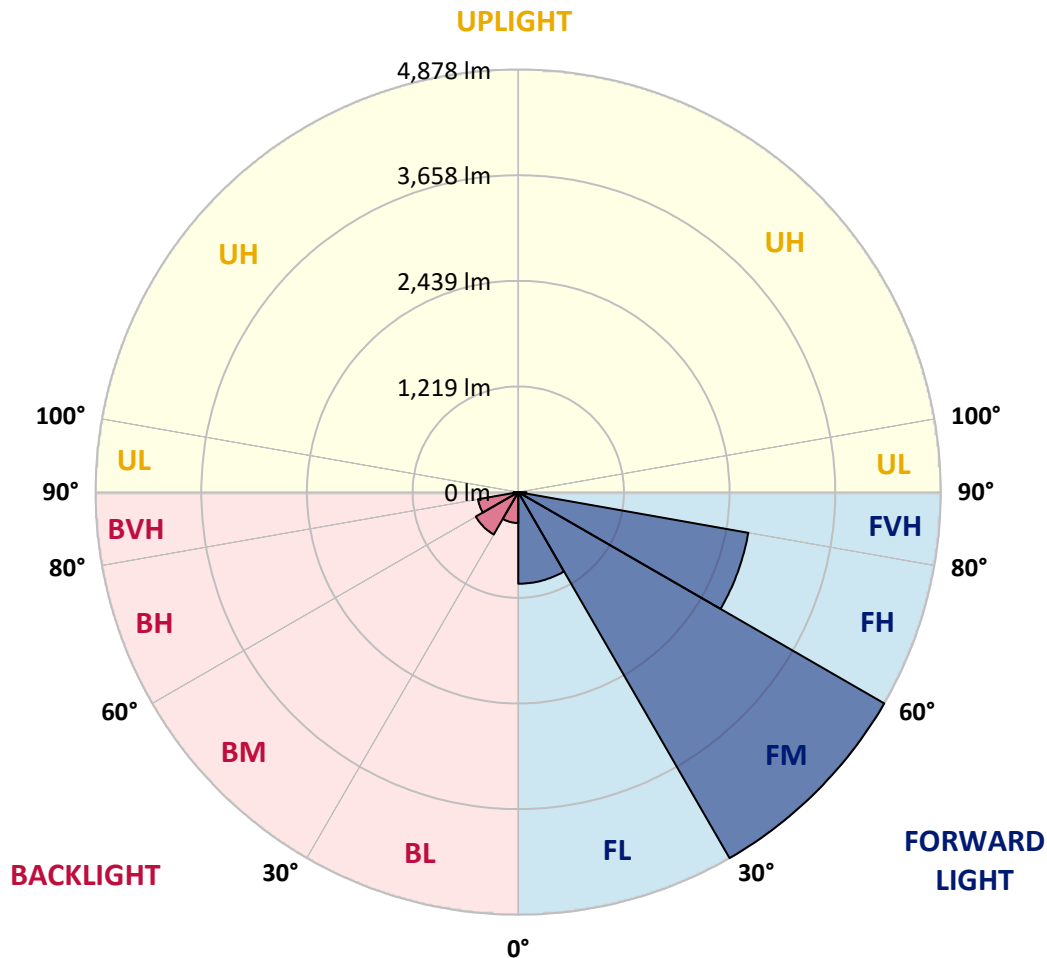
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1057.1	10.4			
FM (30°-60°)	4877.6	48.0			
FH (60°-80°)	2696.2	26.5			G2/5000
FVH (80°-90°)	93.0	0.9			G1/100
BL (0°-30°)	356.3	3.5	B1/500		
BM (30°-60°)	565.4	5.6	B1/1000		
BH (60°-80°)	472.2	4.6	B1/500		G1/500
BVH (80°-90°)	53.0	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8
2.5°	1444.2	1426.8	1409.4	1372.3	1359.6	1324.8	1261.0	1190.3	1132.4	1124.3	1083.7
5°	1791.9	1766.4	1760.6	1739.7	1673.7	1606.4	1502.1	1388.5	1247.1	1257.6	1118.5
7.5°	2052.7	2037.6	2006.3	1986.6	1947.2	1857.9	1750.2	1599.5	1419.8	1385.1	1196.1
10°	2249.7	2228.8	2227.7	2210.3	2189.4	2097.9	2015.6	1812.7	1582.1	1534.6	1291.2
12.5°	2349.4	2345.9	2407.3	2407.3	2399.2	2361.0	2219.6	2034.1	1736.2	1720.0	1401.3
15°	2457.2	2428.2	2481.5	2522.1	2542.9	2562.6	2445.6	2249.7	1933.3	1902.0	1519.5
17.5°	2457.2	2454.8	2508.2	2575.4	2684.3	2709.8	2646.1	2447.9	2096.7	2073.5	1649.3
20°	2415.4	2449.1	2486.1	2576.5	2694.8	2797.9	2816.5	2650.7	2277.5	2259.0	1796.5
22.5°	2610.2	2577.7	2616.0	2650.7	2742.3	2898.8	2949.8	2829.2	2467.6	2396.9	1929.8
25°	2937.0	2915.0	2887.2	2836.2	2874.4	2942.8	3020.5	2961.4	2629.9	2551.0	2058.5
27.5°	3255.7	3256.9	3196.6	3085.4	3003.1	3017.0	3108.5	3077.3	2766.6	2731.9	2146.5
30°	3708.9	3681.1	3613.9	3463.2	3302.1	3170.0	3154.9	3185.0	2940.5	2873.3	2272.9
32.5°	4048.5	4054.3	3959.3	3742.5	3522.3	3414.5	3282.4	3295.2	3050.6	3000.8	2373.7
35°	4323.2	4316.3	4249.0	4069.4	3808.6	3678.8	3500.3	3427.3	3306.7	3227.9	2527.9
37.5°	4619.9	4563.1	4454.2	4251.4	4084.5	3904.8	3731.0	3566.4	3477.1	3382.1	2660.0
40°	4739.3	4739.3	4593.3	4500.6	4302.4	4166.8	4054.3	3749.5	3684.6	3666.0	2829.2
42.5°	4654.7	4706.9	4646.6	4541.1	4460.0	4288.5	4258.3	3939.6	3940.7	3903.7	3032.1
45°	4646.6	4574.7	4524.9	4551.6	4513.3	4504.0	4580.5	4202.7	4209.6	4205.0	3304.4
47.5°	4413.6	4381.2	4455.4	4499.4	4530.7	4674.4	4894.6	4516.8	4566.6	4531.9	3618.5
50°	4181.8	4176.0	4222.4	4382.3	4517.9	4754.4	5193.7	5001.3	5164.7	5162.4	4187.6
52.5°	3546.7	3608.1	3790.1	4128.5	4463.5	4863.3	5419.7	5620.2	5932.0	6016.6	4659.3
55°	2939.3	2906.9	3175.8	3667.2	4225.9	4906.2	5672.3	5992.2	6451.2	6512.7	5143.8
57.5°	2286.8	2347.1	2559.2	3030.9	3734.4	4694.1	5857.8	6359.7	7037.7	7085.2	5706.0
60°	1706.1	1714.2	1947.2	2327.4	3080.7	4215.4	5918.1	6736.3	7709.9	7845.6	6294.8
62.5°	1073.3	1122.0	1299.3	1673.7	2319.2	3545.5	5648.0	6964.7	8414.6	8450.6	6888.2
65°	578.4	609.7	742.9	978.2	1620.3	2682.0	4931.7	6827.9	8746.1	8959.4	7152.4
67°	427.7	433.5	494.9	624.7	1083.7	2019.1	4112.3	6333.0	8896.8	9052.1	7162.9
67.5°	401.0	409.1	457.8	561.0	960.8	1859.1	3897.9	6156.8	8829.6	8996.5	7081.7
70°	343.1	345.4	357.0	386.0	539.0	1118.5	2654.2	5045.3	8184.0	8343.9	6512.7
72.5°	304.8	307.1	311.8	317.6	365.1	646.7	1614.5	3882.8	7113.0	7368.0	5619.0
75°	267.7	275.9	278.2	273.5	310.6	420.7	858.8	2853.6	5802.2	5926.2	4369.6
77.5°	227.2	230.6	235.3	239.9	277.0	314.1	412.6	1926.3	3982.5	3907.1	2363.3
80°	191.2	192.4	195.9	199.4	239.9	239.9	234.1	1040.8	1739.7	1663.2	798.6
82.5°	136.8	144.9	153.0	162.3	199.4	161.1	153.0	463.6	550.5	523.9	270.1
85°	53.3	64.9	100.8	111.3	126.3	86.9	102.0	200.5	229.5	227.2	100.8
87.5°	9.3	10.4	27.8	42.9	46.4	30.1	48.7	71.9	85.8	92.7	37.1
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°	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8
2.5°	1050.1	1014.2	971.3	928.4	900.6	856.5	853.1	826.4	822.9	813.6	818.3
5°	1058.2	1015.3	928.4	860.0	828.7	803.2	809.0	797.4	793.9	788.1	778.9
7.5°	1122.0	1037.3	907.5	848.4	825.2	813.6	813.6	799.7	789.3	796.3	803.2
10°	1163.7	1047.8	923.8	864.6	846.1	820.6	829.9	812.5	818.3	804.4	804.4
12.5°	1230.9	1106.9	957.4	889.0	858.8	835.7	844.9	825.2	820.6	821.8	818.3
15°	1321.3	1146.3	972.4	902.9	882.0	853.1	846.1	828.7	811.3	805.5	812.5
17.5°	1405.9	1195.0	982.9	911.0	877.4	844.9	836.8	814.8	809.0	791.6	777.7
20°	1506.8	1252.9	996.8	918.0	860.0	827.6	806.7	784.7	765.0	754.5	759.2
22.5°	1574.0	1283.1	1003.7	904.1	834.5	804.4	760.3	745.3	717.4	705.9	696.6
25°	1684.1	1320.1	986.3	865.8	789.3	740.6	701.2	680.4	660.7	645.6	640.9
27.5°	1711.9	1348.0	945.8	800.9	717.4	666.4	632.8	607.3	594.6	571.4	566.8
30°	1793.0	1320.1	885.5	722.1	649.1	596.9	563.3	544.7	514.6	508.8	496.1
32.5°	1845.2	1328.3	809.0	645.6	570.2	523.9	501.9	483.3	475.2	447.4	440.4
35°	1932.1	1300.4	731.4	574.9	505.3	469.4	450.9	445.1	418.4	405.7	394.1
37.5°	1987.8	1284.2	653.7	494.9	434.6	419.6	425.4	401.0	368.6	344.2	336.1
40°	2085.1	1278.4	565.6	428.8	386.0	382.5	401.0	354.7	295.6	274.7	263.1
42.5°	2225.4	1239.0	497.2	369.7	347.7	362.8	366.3	295.6	261.9	244.6	236.4
45°	2359.8	1247.1	430.0	306.0	302.5	324.5	316.4	250.4	230.6	217.9	224.9
47.5°	2618.3	1287.7	363.9	255.0	272.4	293.2	245.7	223.7	205.2	195.9	197.0
50°	3018.1	1327.1	306.0	233.0	257.3	265.4	210.9	202.8	201.7	183.1	182.0
52.5°	3258.1	1312.0	295.6	260.8	275.9	265.4	229.5	223.7	214.4	206.3	197.0
55°	3639.4	1356.1	317.6	304.8	312.9	255.0	257.3	255.0	248.0	227.2	233.0
57.5°	3943.1	1385.1	346.6	340.8	336.1	265.4	268.9	270.1	265.4	256.1	264.3
60°	4360.3	1443.0	376.7	377.8	379.0	288.6	294.4	301.4	300.2	296.7	299.0
62.5°	4616.5	1416.3	410.3	428.8	423.1	336.1	335.0	339.6	339.6	345.4	348.9
65°	4578.2	1317.8	427.7	474.0	443.9	370.9	370.9	373.2	374.4	386.0	387.1
67°	4348.7	1141.7	418.4	481.0	443.9	384.8	384.8	387.1	379.0	409.1	399.9
67.5°	4242.1	1089.5	410.3	475.2	440.4	383.6	383.6	384.8	377.8	406.8	397.6
70°	3689.2	809.0	353.5	420.7	408.0	373.2	373.2	366.3	360.5	398.7	390.6
72.5°	3149.1	587.6	284.0	358.1	368.6	359.3	361.6	344.2	328.0	354.7	347.7
75°	2412.0	432.3	221.4	275.9	311.8	336.1	351.2	307.1	286.3	293.2	280.5
77.5°	1345.6	281.6	175.0	204.0	237.6	312.9	337.3	277.0	234.1	226.0	226.0
80°	456.7	164.6	128.7	151.8	163.4	277.0	315.3	224.9	184.3	176.2	170.4
82.5°	172.7	100.8	88.1	104.3	104.3	219.1	257.3	172.7	139.1	179.7	183.1
85°	78.8	60.3	58.0	60.3	60.3	134.4	182.0	112.4	125.2	107.8	95.0
87.5°	31.3	29.0	26.7	25.5	20.9	23.2	62.6	30.1	56.8	15.1	13.9
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)