

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: P480745

Luminaire Tested: **IFLD-S-SA6A-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

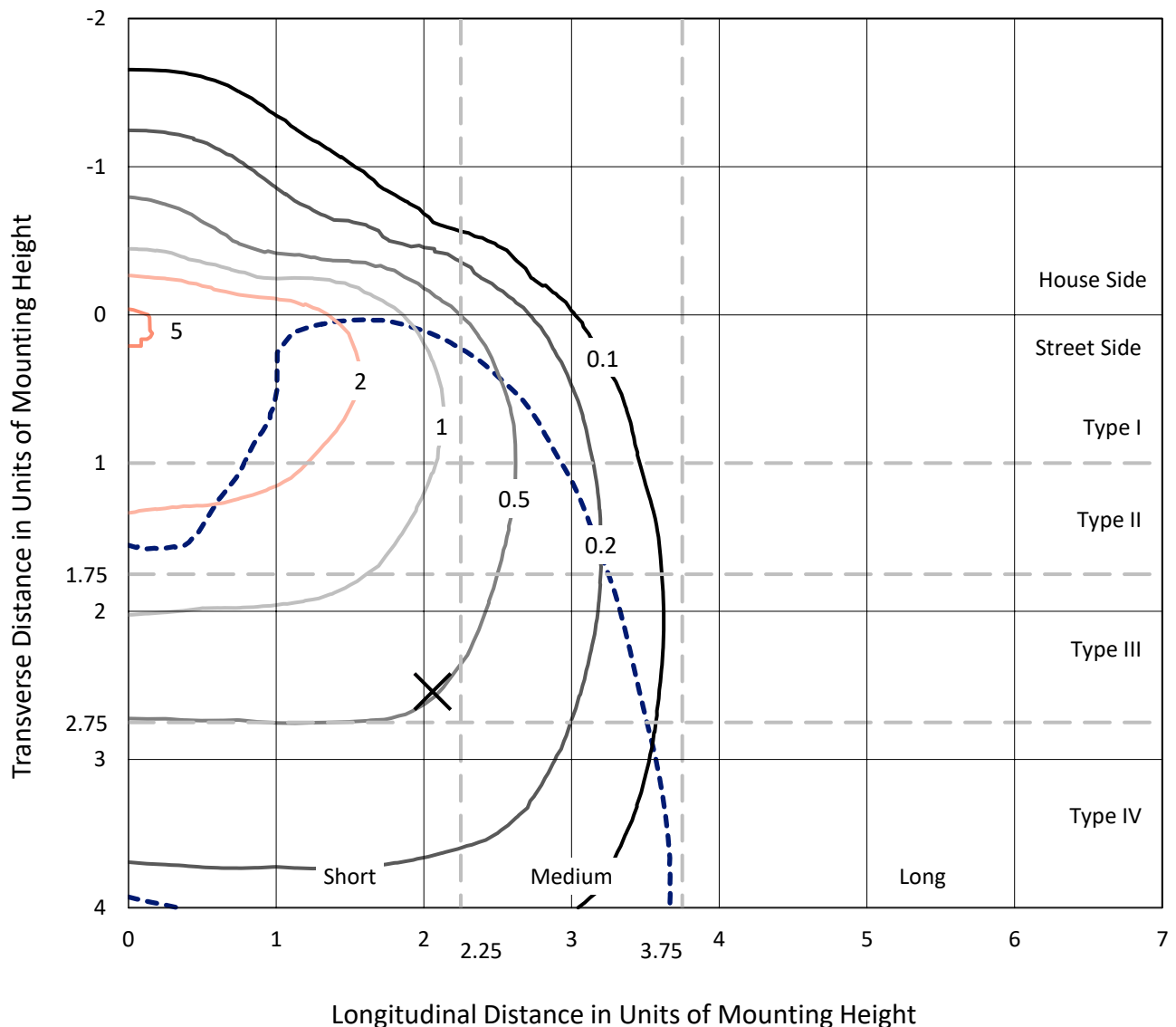
Lumens per Lamp: N/A
Luminaire Lumens: 19230.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

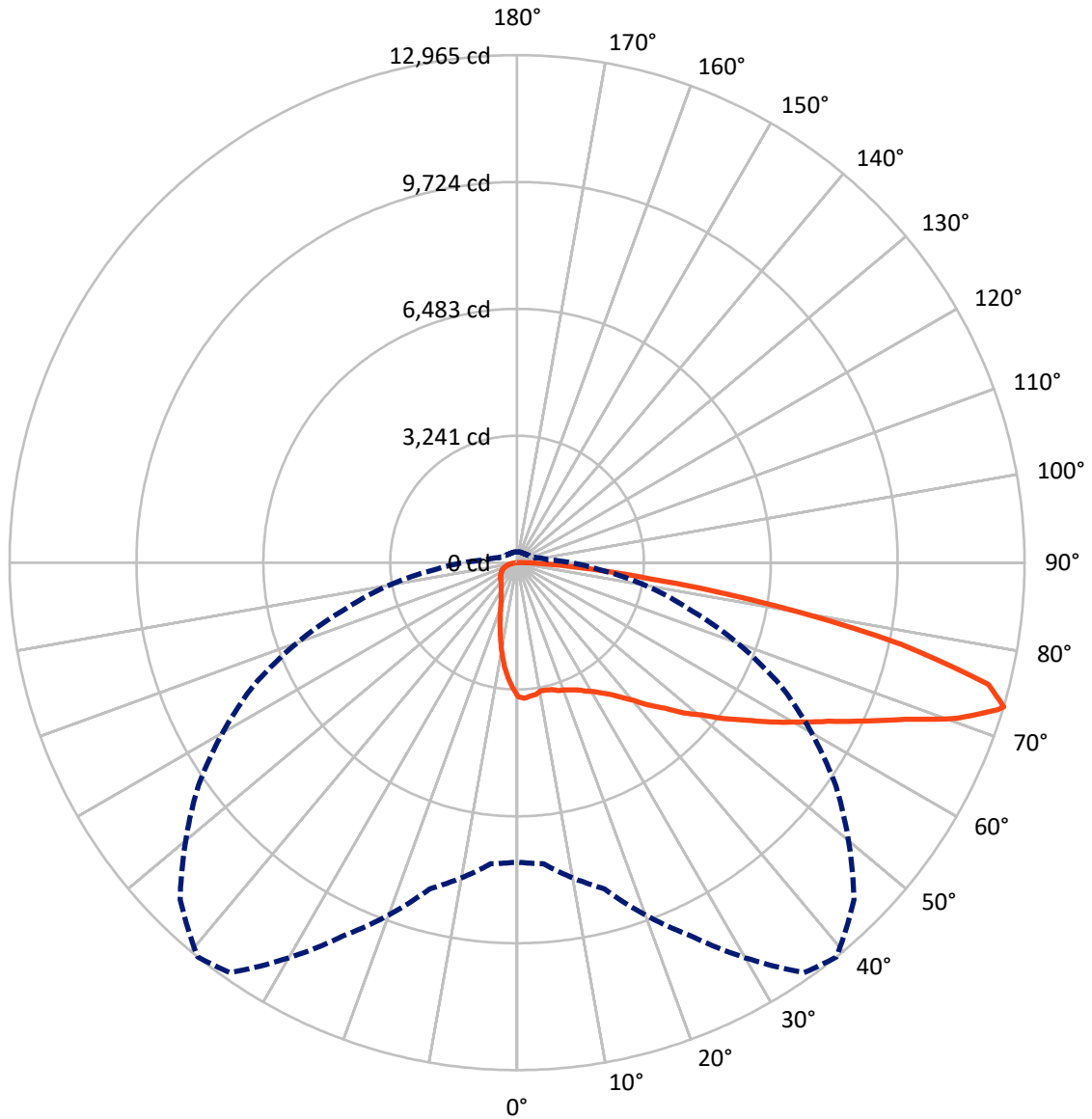
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2703.2	0.0	2703.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16527.1	0.0	16527.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	19230.3	0.0	19230.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.5
10°-20°	755.4	3.9
20°-30°	1154.3	6.0
30°-40°	1683.1	8.8
40°-50°	2543.3	13.2
50°-60°	3682.8	19.2
60°-70°	4679.2	24.3
70°-80°	3793.2	19.7
80°-90°	641.8	3.3
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°	19230.3	100.0
0°-180°	19230.3	100.0

Coefficient of Utilization

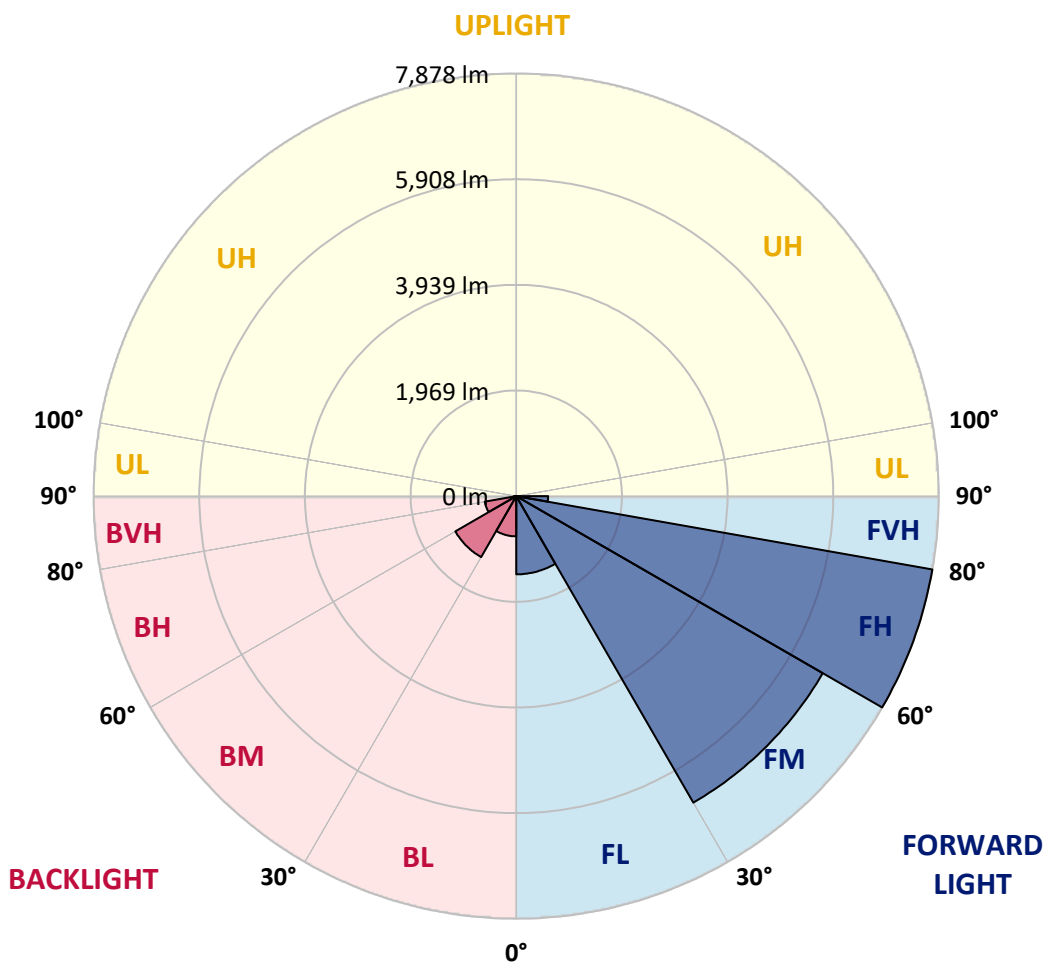


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1457.2	7.6			
FM (30°-60°)	6597.2	34.3			
FH (60°-80°)	7877.9	41.0			G4/12000
FVH (80°-90°)	594.7	3.1			G4/750
BL (0°-30°)	749.7	3.9	B2/1000		
BM (30°-60°)	1311.9	6.8	B2/2500		
BH (60°-80°)	594.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1
2.5°	3504.9	3468.3	3474.7	3461.8	3474.7	3470.4	3464.0	3431.7	3464.0	3431.7	3423.1
5°	3457.5	3457.5	3479.0	3446.8	3451.1	3429.6	3451.1	3427.4	3405.9	3352.1	3337.0
7.5°	3442.5	3440.3	3442.5	3397.3	3418.8	3405.9	3384.4	3358.6	3315.5	3281.1	3231.6
10°	3339.2	3360.7	3337.0	3350.0	3367.2	3328.4	3326.3	3319.8	3300.5	3255.3	3225.2
12.5°	3283.3	3319.8	3332.7	3322.0	3337.0	3341.3	3328.4	3319.8	3296.2	3266.0	3180.0
15°	3306.9	3263.9	3300.5	3371.5	3356.4	3367.2	3369.3	3360.7	3350.0	3294.0	3238.1
17.5°	3313.4	3287.6	3365.0	3380.1	3399.4	3438.2	3412.4	3410.2	3369.3	3330.6	3248.8
20°	3328.4	3317.7	3380.1	3459.7	3461.8	3468.3	3481.2	3448.9	3427.4	3360.7	3235.9
22.5°	3384.4	3421.0	3479.0	3513.5	3532.8	3537.1	3537.1	3472.6	3448.9	3395.1	3296.2
25°	3552.2	3513.5	3595.2	3636.1	3608.1	3601.7	3586.6	3528.5	3502.7	3455.4	3324.1
27.5°	3674.8	3672.7	3720.0	3776.0	3700.7	3715.7	3661.9	3644.7	3586.6	3560.8	3373.6
30°	3842.7	3890.0	3887.8	3905.1	3806.1	3823.3	3754.4	3722.2	3689.9	3705.0	3519.9
32.5°	4057.8	4040.6	4068.6	4055.7	3956.7	3971.8	3890.0	3840.5	3851.3	3896.4	3720.0
35°	4195.5	4178.3	4189.1	4189.1	4158.9	4141.7	4107.3	4042.8	4094.4	4178.3	3943.8
37.5°	4344.0	4365.5	4427.9	4415.0	4376.2	4376.2	4371.9	4326.8	4393.5	4600.0	4300.9
40°	4475.2	4533.3	4572.0	4597.9	4643.0	4643.0	4679.6	4653.8	4774.3	5105.6	4737.7
42.5°	4612.9	4615.1	4825.9	4845.3	4946.4	4989.4	5017.4	5038.9	5264.8	5634.9	5204.6
45°	4789.3	4800.1	4985.1	5133.6	5290.6	5305.7	5411.1	5482.1	5759.7	6213.7	5712.4
47.5°	5021.7	5008.8	5206.7	5443.4	5639.2	5742.5	5869.4	5946.9	6289.0	6841.9	6267.5
50°	5327.2	5288.5	5402.5	5774.7	6005.0	6119.0	6344.9	6474.0	6874.2	7442.2	6648.3
52.5°	5699.4	5634.9	5725.3	6131.9	6390.1	6620.3	6835.5	6979.6	7397.0	7906.9	6930.1
55°	6093.2	5959.8	5985.6	6510.6	6882.8	7100.1	7394.9	7545.5	7971.5	8324.3	7212.0
57.5°	6482.6	6398.7	6347.1	6874.2	7470.2	7678.9	7950.0	8145.8	8507.2	8694.4	7450.8
60°	6809.6	6788.1	6704.2	7437.9	8092.0	8270.5	8554.5	8675.0	8948.3	9036.5	7455.1
62.5°	7078.6	7005.4	7138.8	7891.9	8724.5	8926.8	9238.7	9249.5	9443.1	9249.5	7235.6
65°	7289.4	7293.7	7506.7	8440.5	9456.0	9755.1	10006.8	9978.9	9854.1	9122.6	6717.1
67.5°	7480.9	7562.7	7874.7	9042.9	10396.3	10678.1	10957.8	10587.8	9966.0	8528.7	5703.7
70°	7631.5	7713.3	8371.7	9776.6	11504.3	11917.4	11979.8	10828.7	9451.7	7224.9	4303.1
72.5°	7614.3	7762.8	8653.5	10361.8	12487.6	12844.7	12341.3	10151.0	7874.7	5036.8	2510.9
73°	7650.9	7724.0	8629.8	10525.4	12786.6	12965.2	12173.4	9938.0	7427.1	4518.2	2123.6
75°	6945.2	7192.6	8201.7	10258.6	12466.1	12433.8	11209.6	8281.3	5279.9	2373.2	1028.4
77.5°	5137.9	5295.0	6463.2	8436.2	10232.7	10026.2	8455.6	5292.8	2506.6	880.0	555.1
80°	2510.9	2633.5	3425.3	4871.1	6691.3	6708.5	5247.6	2754.0	1073.6	497.0	378.7
82.5°	1254.4	1327.5	1645.9	2140.8	3291.9	3448.9	2661.5	1566.3	664.8	281.9	215.2
85°	819.7	871.4	1013.4	1047.8	1396.4	1473.8	1239.3	1222.1	432.5	152.8	174.3
87.5°	544.3	552.9	621.8	529.3	559.4	537.9	598.1	770.3	126.9	64.5	47.3
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°	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1
2.5°	3412.4	3382.2	3350.0	3304.8	3272.5	3223.0	3177.8	3158.5	3154.2	3156.3	3134.8
5°	3324.1	3281.1	3216.6	3124.0	3070.3	2988.5	2919.6	2883.1	2844.3	2850.8	2833.6
7.5°	3201.5	3154.2	3055.2	2947.6	2814.2	2698.0	2633.5	2543.1	2491.5	2452.8	2474.3
10°	3162.8	3081.0	2932.6	2784.1	2577.6	2424.8	2276.3	2173.1	2102.1	2033.2	2063.3
12.5°	3143.4	3061.6	2855.1	2635.6	2368.9	2136.5	1927.8	1800.8	1699.7	1639.5	1663.1
15°	3126.2	3025.1	2781.9	2472.1	2173.1	1867.5	1633.0	1465.2	1368.4	1310.3	1316.7
17.5°	3149.9	3005.7	2674.4	2312.9	1957.9	1630.9	1370.5	1196.3	1097.3	1060.7	1052.1
20°	3126.2	2984.2	2568.9	2153.7	1742.8	1405.0	1155.4	1011.2	942.4	912.3	905.8
22.5°	3134.8	2932.6	2459.2	1977.3	1542.7	1215.6	1011.2	901.5	847.7	832.6	837.0
25°	3175.7	2902.4	2349.5	1783.6	1344.7	1075.8	918.7	834.8	796.1	781.0	785.3
27.5°	3205.8	2928.3	2250.5	1600.7	1176.9	951.0	841.3	785.3	759.5	748.7	746.6
30°	3281.1	2943.3	2153.7	1437.2	1039.2	869.2	787.5	742.3	725.1	718.6	716.5
32.5°	3393.0	2971.3	2041.8	1286.6	938.1	791.8	744.4	705.7	701.4	694.9	697.1
35°	3575.9	3068.1	1917.0	1157.5	841.3	740.1	699.3	673.4	673.4	673.4	679.9
37.5°	3838.4	3203.7	1805.1	1034.9	778.9	694.9	660.5	651.9	647.6	654.1	658.4
40°	4176.1	3367.2	1714.8	938.1	725.1	664.8	634.7	630.4	628.3	626.1	630.4
42.5°	4546.2	3575.9	1637.3	862.8	686.3	632.6	611.0	606.7	598.1	602.4	608.9
45°	4914.1	3834.1	1568.5	802.5	660.5	615.3	585.2	583.1	578.8	576.6	587.4
47.5°	5322.9	4087.9	1547.0	766.0	641.2	589.5	568.0	565.9	552.9	550.8	559.4
50°	5641.4	4275.1	1570.6	748.7	613.2	570.2	555.1	544.3	533.6	522.8	522.8
52.5°	5860.8	4404.2	1587.8	735.8	598.1	544.3	525.0	520.7	509.9	499.2	494.9
55°	6058.8	4481.7	1592.1	738.0	583.1	514.2	501.3	499.2	492.7	475.5	471.2
57.5°	6125.4	4449.4	1506.1	718.6	574.5	494.9	477.6	481.9	473.3	458.3	456.1
60°	6119.0	4225.6	1310.3	692.8	555.1	473.3	451.8	464.7	464.7	447.5	445.4
62.5°	5746.8	3709.3	1071.5	643.3	533.6	451.8	428.2	447.5	454.0	443.2	441.1
65°	4974.4	3020.8	895.0	593.8	501.3	428.2	404.5	426.0	436.8	432.5	430.3
67.5°	4115.9	2310.8	744.4	529.3	460.4	395.9	376.5	391.6	398.0	400.2	402.3
70°	2908.9	1538.4	621.8	458.3	404.5	361.5	339.9	342.1	339.9	346.4	346.4
72.5°	1581.4	886.4	505.6	389.4	348.6	314.1	299.1	288.3	288.3	286.2	286.2
73°	1353.3	796.1	481.9	378.7	333.5	305.5	288.3	279.7	279.7	277.5	275.4
75°	759.5	583.1	413.1	324.9	288.3	266.8	253.9	241.0	238.8	238.8	238.8
77.5°	499.2	454.0	329.2	260.3	232.4	213.0	208.7	195.8	195.8	195.8	193.6
80°	374.4	357.2	253.9	197.9	178.6	163.5	159.2	150.6	148.5	139.9	142.0
82.5°	249.6	281.9	185.0	139.9	120.5	111.9	111.9	109.7	103.3	92.5	92.5
85°	197.9	230.2	133.4	86.1	71.0	60.2	62.4	60.2	58.1	47.3	45.2
87.5°	36.6	92.5	38.7	23.7	17.2	10.8	10.8	6.5	4.3	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)