

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: P480849

Luminaire Tested: **IFLD-S-SA3C-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480849
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

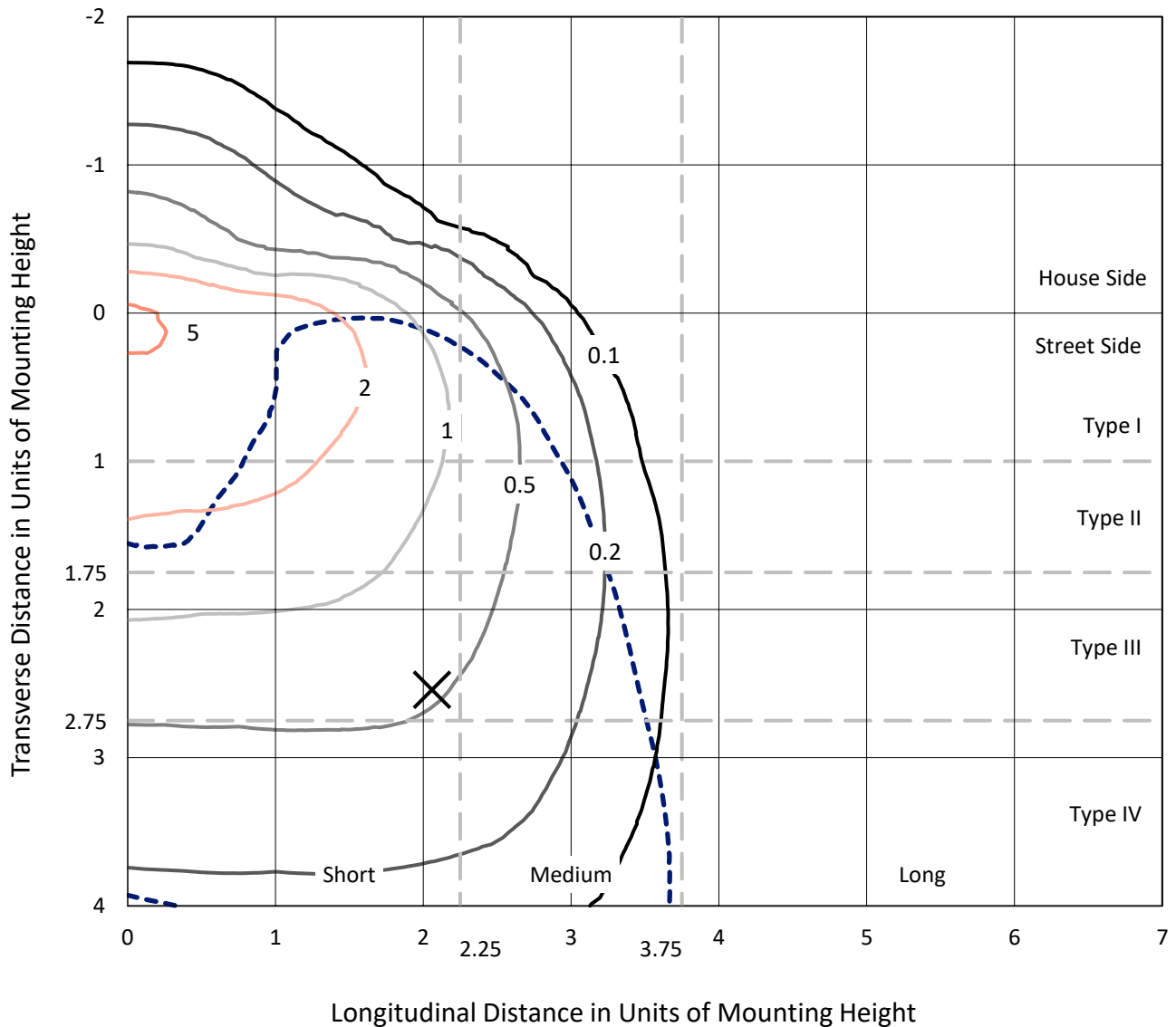
Lumens per Lamp: N/A
Luminaire Lumens: 20208.2 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 160.8
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

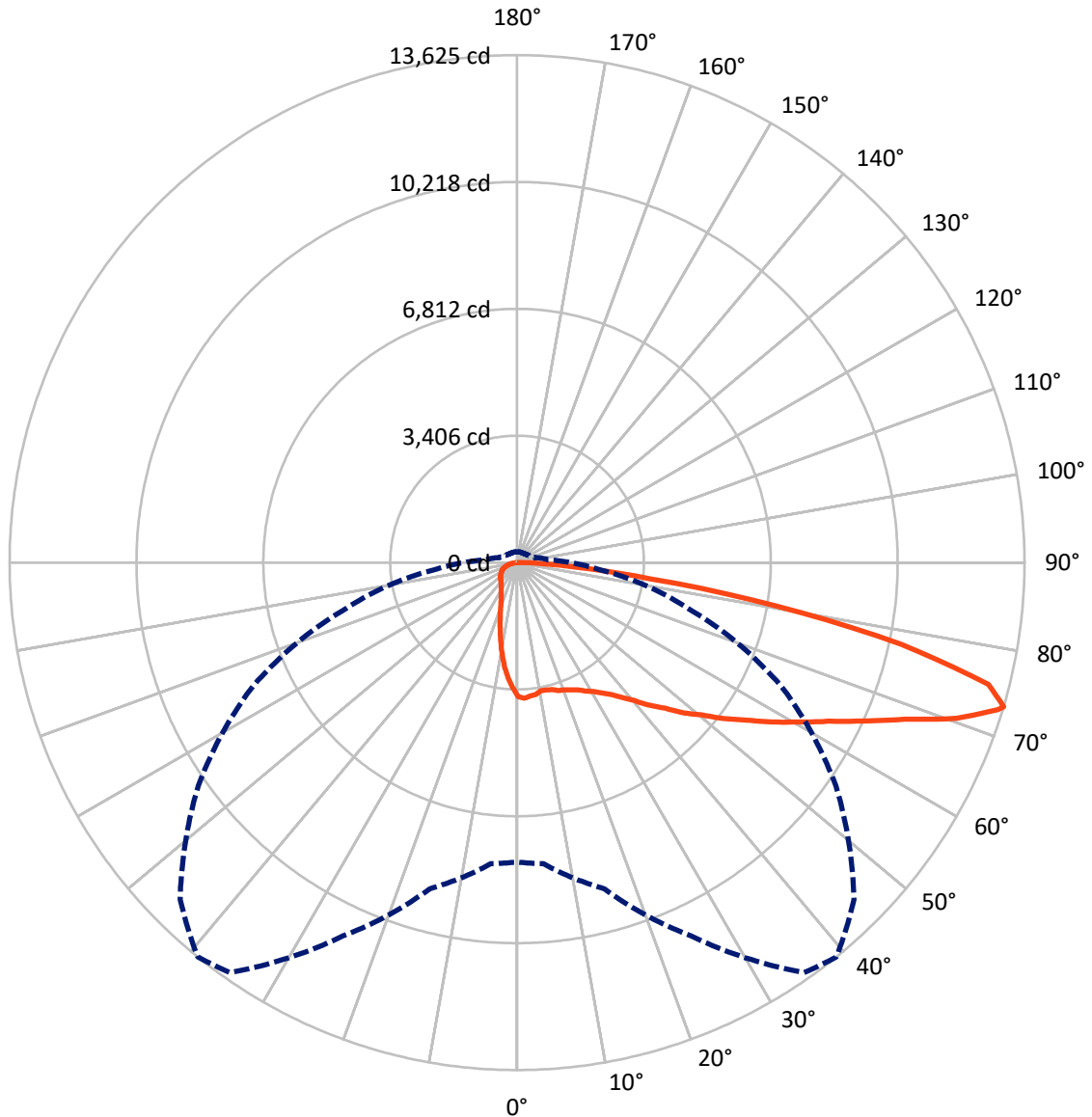
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2840.7	0.0	2840.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17367.5	0.0	17367.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	20208.2	0.0	20208.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	1.5
10°-20°	793.8	3.9
20°-30°	1213.0	6.0
30°-40°	1768.7	8.8
40°-50°	2672.6	13.2
50°-60°	3870.1	19.2
60°-70°	4917.2	24.3
70°-80°	3986.1	19.7
80°-90°	674.4	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°	20208.2	100.0
0°-180°	20208.2	100.0

Coefficient of Utilization

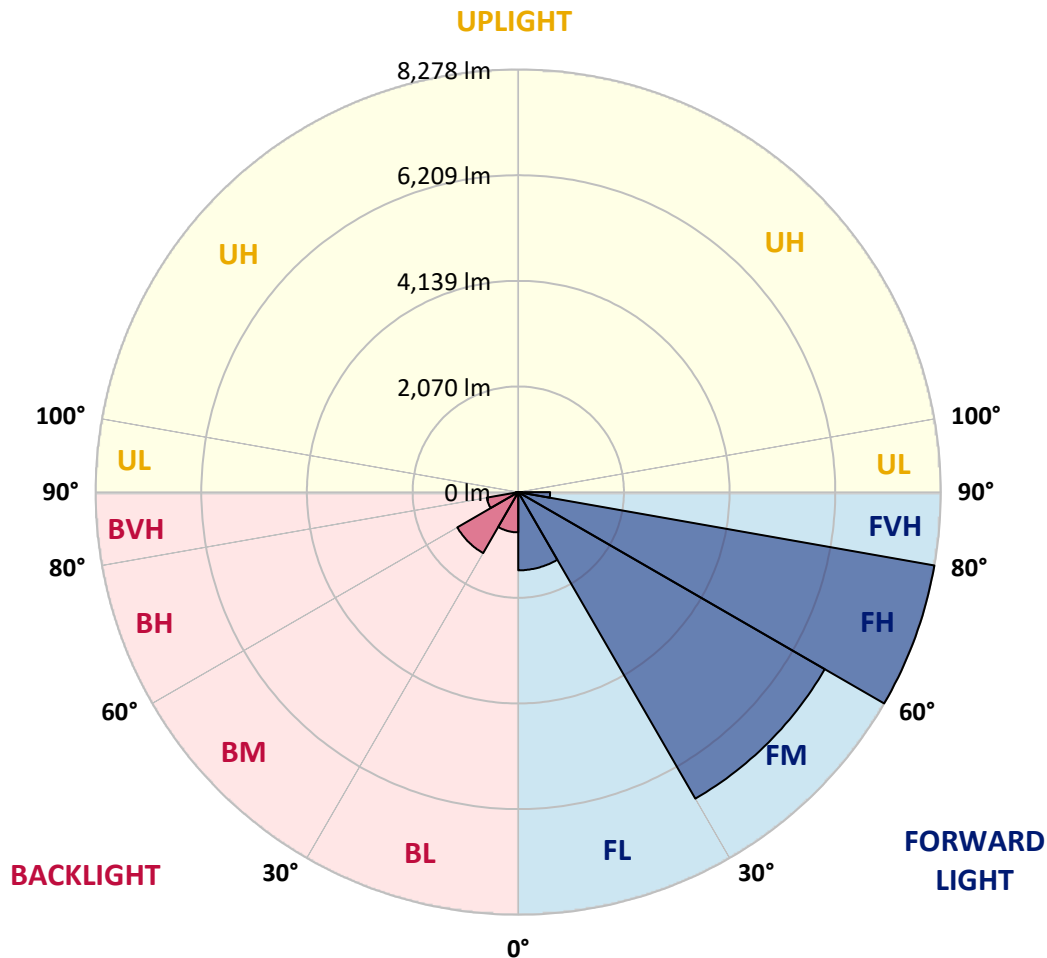


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.3	7.6			
FM (30°-60°)	6932.7	34.3			
FH (60°-80°)	8278.5	41.0			G4/12000
FVH (80°-90°)	624.9	3.1			G4/750
BL (0°-30°)	787.8	3.9	B2/1000		
BM (30°-60°)	1378.7	6.8	B2/2500		
BH (60°-80°)	624.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	49.5	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°	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2
2.5°	3683.1	3644.7	3651.4	3637.9	3651.4	3646.9	3640.1	3606.2	3640.1	3606.2	3597.2
5°	3633.4	3633.4	3656.0	3622.1	3626.6	3604.0	3626.6	3601.7	3579.1	3522.6	3506.7
7.5°	3617.5	3615.3	3617.5	3570.1	3592.7	3579.1	3556.5	3529.4	3484.1	3448.0	3396.0
10°	3509.0	3531.6	3506.7	3520.3	3538.4	3497.7	3495.4	3488.7	3468.3	3420.8	3389.2
12.5°	3450.2	3488.7	3502.2	3490.9	3506.7	3511.3	3497.7	3488.7	3463.8	3432.1	3341.7
15°	3475.1	3429.9	3468.3	3542.9	3527.1	3538.4	3540.7	3531.6	3520.3	3461.5	3402.7
17.5°	3481.9	3454.7	3536.1	3552.0	3572.3	3613.0	3585.9	3583.6	3540.7	3500.0	3414.0
20°	3497.7	3486.4	3552.0	3635.6	3637.9	3644.7	3658.2	3624.3	3601.7	3531.6	3400.5
22.5°	3556.5	3594.9	3656.0	3692.1	3712.5	3717.0	3717.0	3649.2	3624.3	3567.8	3463.8
25°	3732.8	3692.1	3778.1	3821.0	3791.6	3784.8	3769.0	3708.0	3680.8	3631.1	3493.2
27.5°	3861.7	3859.5	3909.2	3968.0	3888.8	3904.7	3848.1	3830.1	3769.0	3741.9	3545.2
30°	4038.1	4087.8	4085.6	4103.6	3999.6	4017.7	3945.4	3911.5	3877.5	3893.4	3698.9
32.5°	4264.2	4246.1	4275.5	4261.9	4157.9	4173.7	4087.8	4035.8	4047.1	4094.6	3909.2
35°	4408.9	4390.8	4402.1	4402.1	4370.4	4352.3	4316.2	4248.3	4302.6	4390.8	4144.3
37.5°	4564.9	4587.5	4653.1	4639.5	4598.8	4598.8	4594.3	4546.8	4616.9	4833.9	4519.7
40°	4702.8	4763.8	4804.5	4831.7	4879.1	4879.1	4917.6	4890.5	5017.1	5365.3	4978.6
42.5°	4847.5	4849.8	5071.3	5091.7	5197.9	5243.2	5272.6	5295.2	5532.6	5921.4	5469.3
45°	5032.9	5044.2	5238.6	5394.6	5559.7	5575.5	5686.3	5760.9	6052.6	6529.6	6002.8
47.5°	5277.1	5263.5	5471.5	5720.2	5926.0	6034.5	6167.9	6249.3	6608.8	7189.8	6586.2
50°	5598.1	5557.4	5677.3	6068.4	6310.3	6430.2	6667.6	6803.2	7223.8	7820.7	6986.4
52.5°	5989.3	5921.4	6016.4	6443.7	6715.0	6957.0	7183.1	7334.5	7773.2	8309.0	7282.5
55°	6403.0	6262.9	6290.0	6841.7	7232.8	7461.2	7770.9	7929.2	8376.8	8747.6	7578.7
57.5°	6812.3	6724.1	6669.8	7223.8	7850.0	8069.4	8354.2	8560.0	8939.8	9136.5	7829.7
60°	7155.9	7133.3	7045.1	7816.1	8503.5	8691.1	8989.6	9116.2	9403.3	9496.0	7834.2
62.5°	7438.6	7361.7	7501.9	8293.2	9168.2	9380.7	9708.6	9719.9	9923.3	9719.9	7603.6
65°	7660.1	7664.6	7888.5	8869.7	9936.9	10251.2	10515.7	10486.3	10355.2	9586.5	7058.7
67.5°	7861.3	7947.3	8275.1	9502.8	10924.9	11221.1	11515.1	11126.2	10472.8	8962.4	5993.8
70°	8019.6	8105.5	8797.4	10273.8	12089.3	12523.4	12589.0	11379.4	9932.4	7592.3	4521.9
72.5°	8001.5	8157.5	9093.6	10888.8	13122.6	13497.9	12968.9	10667.2	8275.1	5292.9	2638.5
73°	8040.0	8116.8	9068.7	11060.6	13436.9	13624.5	12792.5	10443.4	7804.8	4748.0	2231.6
75°	7298.4	7558.4	8618.8	10780.2	13100.0	13066.1	11779.6	8702.4	5548.4	2493.8	1080.7
77.5°	5399.2	5564.2	6791.9	8865.2	10753.1	10536.1	8885.6	5562.0	2634.0	924.7	583.3
80°	2638.5	2767.4	3599.4	5118.8	7031.6	7049.7	5514.5	2894.0	1128.2	522.3	397.9
82.5°	1318.1	1395.0	1729.6	2249.7	3459.3	3624.3	2796.8	1646.0	698.6	296.2	226.1
85°	861.4	915.7	1064.9	1101.1	1467.4	1548.8	1302.3	1284.2	454.5	160.5	183.1
87.5°	572.0	581.1	653.4	556.2	587.8	565.2	628.5	809.4	133.4	67.8	49.7
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°	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2	3597.2
2.5°	3585.9	3554.2	3520.3	3472.8	3438.9	3386.9	3339.4	3319.1	3314.6	3316.8	3294.2
5°	3493.2	3448.0	3380.1	3282.9	3226.4	3140.5	3068.1	3029.7	2989.0	2995.8	2977.7
7.5°	3364.3	3314.6	3210.6	3097.5	2957.3	2835.2	2767.4	2672.5	2618.2	2577.5	2600.1
10°	3323.6	3237.7	3081.7	2925.7	2708.6	2548.1	2392.1	2283.6	2209.0	2136.6	2168.3
12.5°	3303.3	3217.3	3000.3	2769.7	2489.3	2245.1	2025.8	1892.4	1786.2	1722.8	1747.7
15°	3285.2	3178.9	2923.4	2597.8	2283.6	1962.5	1716.1	1539.7	1438.0	1376.9	1383.7
17.5°	3310.0	3158.6	2810.4	2430.5	2057.5	1713.8	1440.2	1257.1	1153.1	1114.7	1105.6
20°	3285.2	3135.9	2699.6	2263.2	1831.4	1476.4	1214.1	1062.7	990.3	958.6	951.9
22.5°	3294.2	3081.7	2584.3	2077.8	1621.1	1277.4	1062.7	947.3	890.8	875.0	879.5
25°	3337.2	3050.0	2469.0	1874.3	1413.1	1130.5	965.4	877.3	836.6	820.7	825.2
27.5°	3368.8	3077.2	2365.0	1682.2	1236.7	999.3	884.0	825.2	798.1	786.8	784.6
30°	3448.0	3093.0	2263.2	1510.3	1092.0	913.4	827.5	780.0	761.9	755.2	752.9
32.5°	3565.5	3122.4	2145.6	1352.1	985.8	832.0	782.3	741.6	737.1	730.3	732.6
35°	3757.7	3224.1	2014.5	1216.4	884.0	777.8	734.8	707.7	707.7	707.7	714.5
37.5°	4033.5	3366.6	1896.9	1087.5	818.5	730.3	694.1	685.1	680.5	687.3	691.9
40°	4388.5	3538.4	1802.0	985.8	761.9	698.6	667.0	662.5	660.2	657.9	662.5
42.5°	4777.4	3757.7	1720.6	906.6	721.2	664.7	642.1	637.6	628.5	633.1	639.9
45°	5164.0	4029.0	1648.2	843.3	694.1	646.6	615.0	612.7	608.2	605.9	617.2
47.5°	5593.6	4295.8	1625.6	804.9	673.8	619.5	596.9	594.6	581.1	578.8	587.8
50°	5928.2	4492.5	1650.5	786.8	644.4	599.2	583.3	572.0	560.7	549.4	549.4
52.5°	6158.8	4628.2	1668.6	773.2	628.5	572.0	551.7	547.2	535.8	524.5	520.0
55°	6366.9	4709.6	1673.1	775.5	612.7	540.4	526.8	524.5	517.8	499.7	495.1
57.5°	6436.9	4675.7	1582.7	755.2	603.7	520.0	501.9	506.5	497.4	481.6	479.3
60°	6430.2	4440.5	1376.9	728.0	583.3	497.4	474.8	488.4	488.4	470.3	468.0
62.5°	6039.0	3897.9	1126.0	676.0	560.7	474.8	449.9	470.3	477.1	465.8	463.5
65°	5227.3	3174.4	940.6	624.0	526.8	449.9	425.1	447.7	459.0	454.5	452.2
67.5°	4325.2	2428.3	782.3	556.2	483.8	416.0	395.7	411.5	418.3	420.5	422.8
70°	3056.8	1616.6	653.4	481.6	425.1	379.8	357.2	359.5	357.2	364.0	364.0
72.5°	1661.8	931.5	531.3	409.2	366.3	330.1	314.3	303.0	303.0	300.7	300.7
73°	1422.1	836.6	506.5	397.9	350.4	321.1	303.0	293.9	293.9	291.7	289.4
75°	798.1	612.7	434.1	341.4	303.0	280.4	266.8	253.2	251.0	251.0	251.0
77.5°	524.5	477.1	345.9	273.6	244.2	223.8	219.3	205.7	205.7	205.7	203.5
80°	393.4	375.3	266.8	208.0	187.7	171.8	167.3	158.3	156.0	147.0	149.2
82.5°	262.3	296.2	194.4	147.0	126.6	117.6	117.6	115.3	108.5	97.2	97.2
85°	208.0	241.9	140.2	90.4	74.6	63.3	65.6	63.3	61.0	49.7	47.5
87.5°	38.4	97.2	40.7	24.9	18.1	11.3	11.3	6.8	4.5	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)