

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: P299181

Luminaire Tested: **GAA-AF-05-LED-U-SL2-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-SL2-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19148.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

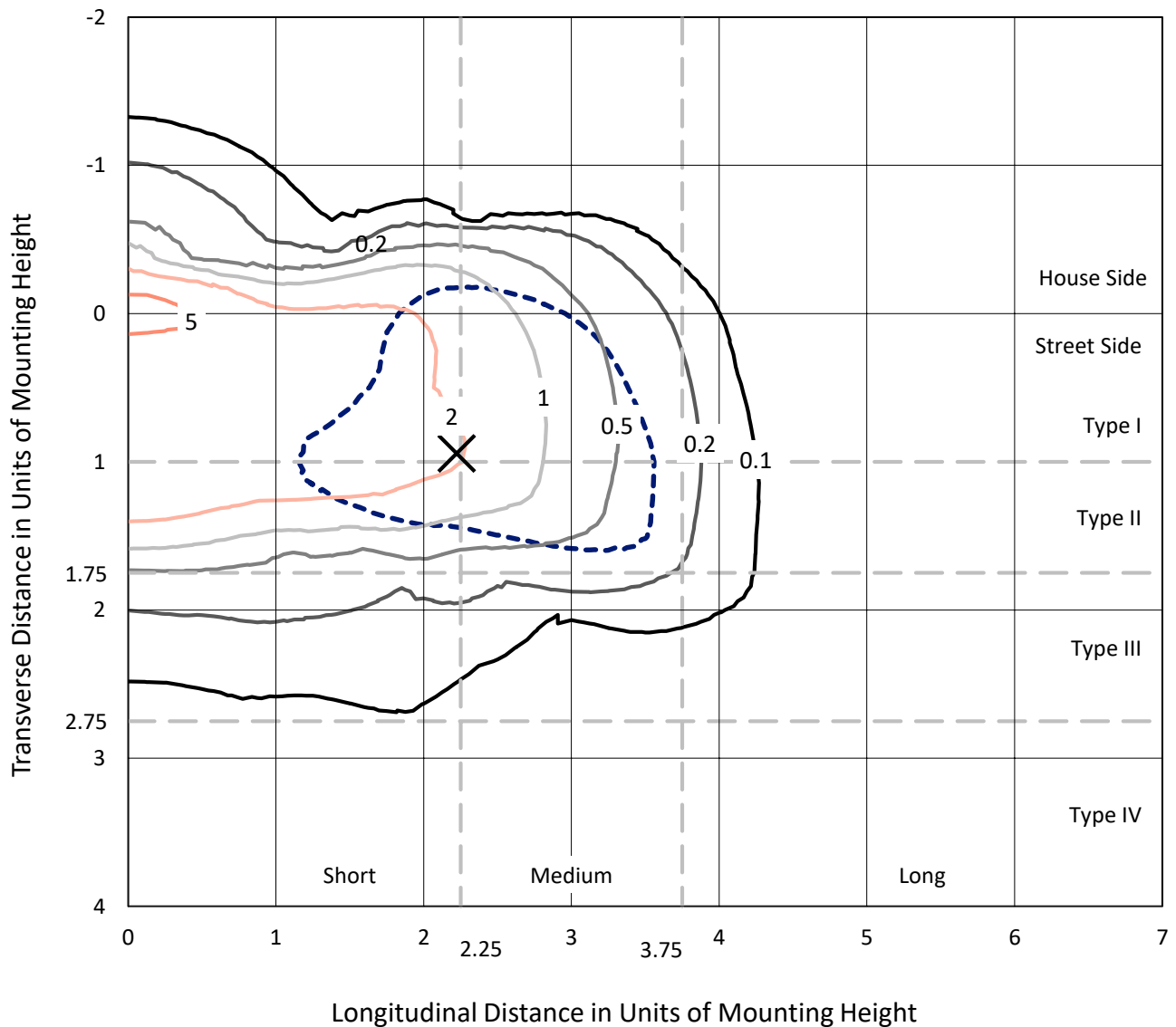
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

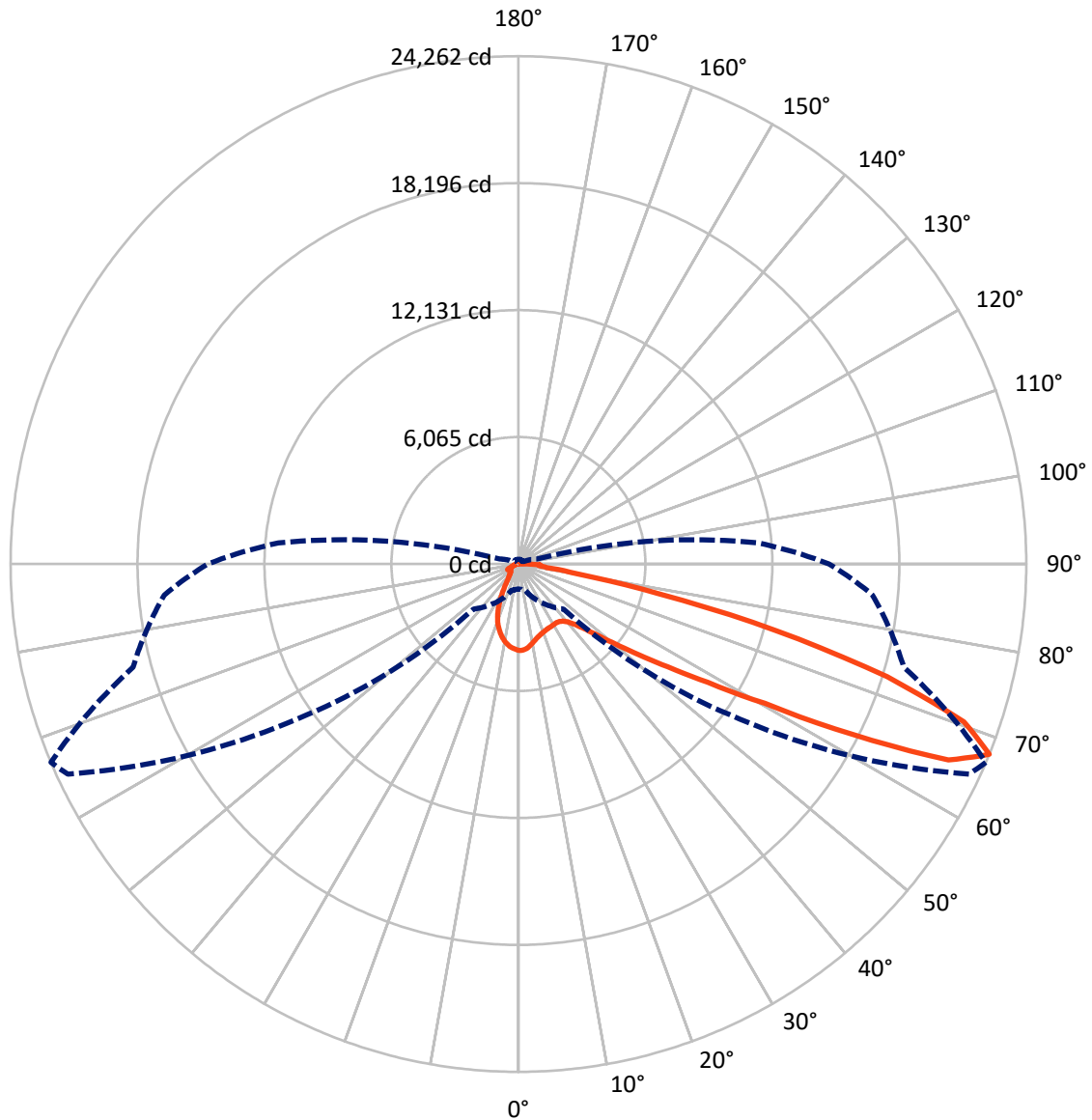
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P299181
CATALOG NUMBER: GAA-AF-05-LED-U-SL2-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3172.6	0.0	3172.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15975.5	0.0	15975.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	19148.1	0.0	19148.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.8
10°-20°	815.3	4.3
20°-30°	1105.2	5.8
30°-40°	1571.1	8.2
40°-50°	2628.6	13.7
50°-60°	4158.4	21.7
60°-70°	5297.4	27.7
70°-80°	2774.8	14.5
80°-90°	445.0	2.3
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°	19148.1	100.0
0°-180°	19148.1	100.0

Coefficient of Utilization



REPORT NUMBER: P299181

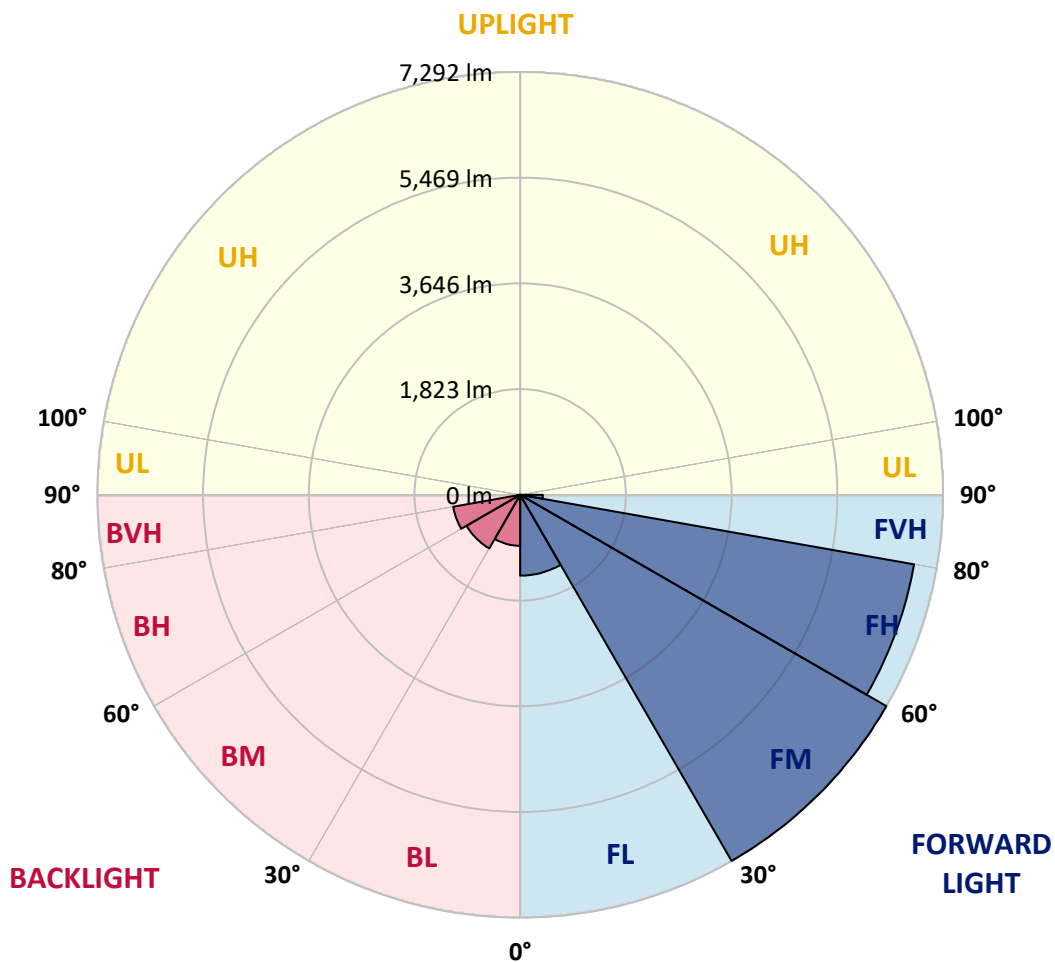
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.5	7.3			
FM (30°-60°)	7292.0	38.1			
FH (60°-80°)	6898.7	36.0			G3/7500
FVH (80°-90°)	391.3	2.0			G3/500
BL (0°-30°)	879.4	4.6	B2/1000		
BM (30°-60°)	1066.1	5.6	B2/2500		
BH (60°-80°)	1173.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	53.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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 CATALOG NUMBER: GAA-AF-05-LED-U-SL2-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2
2.5°	3960.2	3966.8	3987.6	4000.8	4060.3	4085.8	4103.8	4121.7	4124.5	4133.0	4124.5
5°	3544.8	3558.9	3597.6	3641.1	3756.3	3846.9	3942.3	4041.4	4059.4	4123.6	4141.5
7.5°	3222.8	3219.0	3251.1	3303.0	3421.1	3546.7	3713.8	3911.1	3949.9	4094.3	4164.2
10°	2987.6	2984.8	3018.8	3072.6	3185.0	3304.0	3492.8	3762.9	3817.7	4048.1	4185.9
12.5°	2813.9	2814.8	2848.8	2908.3	3022.6	3142.5	3334.2	3619.4	3689.2	3994.2	4208.6
15°	2698.7	2706.3	2733.6	2796.9	2908.3	3028.3	3216.2	3511.7	3590.1	3951.7	4234.1
17.5°	2660.0	2672.3	2681.7	2728.0	2823.3	2943.3	3127.4	3432.4	3515.5	3922.5	4256.7
20°	2695.9	2710.0	2692.1	2708.1	2768.6	2874.3	3057.5	3370.1	3455.1	3889.4	4259.6
22.5°	2849.8	2863.0	2810.1	2763.9	2760.1	2824.3	2999.9	3321.0	3408.8	3864.9	4260.5
25°	3120.8	3129.3	3040.5	2932.9	2828.1	2806.3	2959.3	3287.0	3380.5	3843.1	4242.6
27.5°	3453.2	3459.8	3357.8	3199.2	2988.6	2848.8	2945.2	3267.1	3364.4	3824.3	4212.4
30°	3857.3	3888.5	3751.6	3551.4	3244.5	2974.4	2973.5	3256.8	3346.5	3792.2	4152.9
32.5°	4270.9	4284.1	4189.7	3986.7	3589.1	3195.4	3052.8	3264.3	3341.7	3753.4	4077.3
35°	4690.2	4707.2	4645.8	4482.4	4060.3	3519.3	3207.7	3308.7	3371.0	3740.2	4024.4
37.5°	5233.1	5255.8	5170.8	4981.9	4633.5	3958.3	3465.4	3420.1	3460.7	3778.0	4008.4
40°	6091.4	6081.1	5832.7	5551.3	5260.5	4520.2	3833.7	3609.0	3632.6	3899.8	4057.5
42.5°	7090.5	7065.0	6637.2	6195.3	5949.8	5200.1	4320.9	3936.6	3931.9	4139.6	4230.3
45°	7887.4	7866.7	7481.4	6936.6	6740.1	5974.4	4950.8	4424.8	4389.9	4520.2	4549.5
47.5°	8319.0	8319.9	8098.0	7653.3	7648.5	6958.3	5760.0	5131.1	5070.7	5132.1	5100.9
50°	8167.9	8187.7	8164.1	8022.5	8477.6	8248.1	6816.6	6116.0	5994.2	6054.6	5934.7
52.5°	7437.0	7462.5	7602.3	7819.4	8826.0	9807.1	8369.0	7339.8	7198.1	7176.4	7043.3
55°	6141.5	6172.6	6457.8	7048.0	8536.1	10854.3	10818.4	8899.7	8674.0	8469.1	8412.4
57.5°	4233.1	4285.1	4744.0	5620.3	7598.5	11170.6	13735.2	11123.4	10664.5	9948.8	9962.0
60°	2386.2	2446.6	2987.6	3783.7	5706.2	10826.9	15954.3	14491.6	13522.8	11681.5	11779.7
62.5°	1517.4	1582.6	1993.3	2628.8	3423.9	8976.2	16863.6	19174.2	17943.8	13817.4	13913.7
65°	1228.5	1256.8	1450.4	2169.9	2486.2	5407.8	16173.3	23031.5	22572.6	16528.4	16078.9
67.5°	1199.2	1208.7	1308.7	1821.5	2384.3	3039.6	12900.5	23752.9	24261.9	19059.9	16980.7
70°	1185.0	1218.1	1474.9	1738.4	2283.2	2563.7	7752.4	21775.6	22579.2	19721.9	15780.5
72.5°	575.1	573.2	742.2	1572.2	2572.2	2659.0	3982.9	17619.0	18425.4	17086.4	12967.6
75°	463.6	424.0	405.1	576.0	2473.0	2745.9	2538.2	12123.4	12706.9	11455.8	7971.5
77.5°	440.0	392.8	359.8	360.7	1045.3	2912.1	2150.1	6709.9	6879.9	5174.6	2184.1
80°	364.5	321.0	297.4	335.2	506.1	2773.3	2324.8	3036.7	2786.5	1271.0	727.1
82.5°	253.1	230.4	223.8	281.4	405.1	1976.3	2703.4	1631.7	1368.2	636.4	448.5
85°	161.5	137.9	153.0	204.9	315.4	912.2	2784.6	1271.9	1011.3	404.1	253.1
87.5°	74.6	60.4	75.5	113.3	205.8	314.4	2649.6	1428.7	1041.5	213.4	159.6
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°	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2	4130.2
2.5°	4132.1	4114.2	4100.0	4073.6	4044.3	4015.9	3990.5	3958.3	3948.9	3940.4	3953.6
5°	4145.3	4127.4	4075.4	3994.2	3904.5	3820.5	3736.4	3664.7	3620.3	3595.8	3609.9
7.5°	4165.1	4139.6	4032.0	3882.8	3721.3	3574.0	3422.0	3300.2	3210.5	3168.0	3180.3
10°	4183.1	4134.0	3958.3	3734.6	3498.5	3279.4	3039.6	2841.3	2694.0	2616.6	2635.4
12.5°	4190.6	4112.3	3855.4	3549.5	3225.6	2904.6	2551.4	2254.9	2043.4	1966.0	1949.9
15°	4198.2	4087.7	3742.1	3338.9	2896.1	2441.9	1947.1	1592.0	1416.4	1377.7	1369.2
17.5°	4200.1	4045.2	3613.7	3110.4	2509.9	1891.4	1331.4	1105.7	1106.7	1169.0	1176.6
20°	4180.3	3982.0	3457.9	2826.2	2047.2	1307.8	914.0	875.3	1017.9	1173.7	1192.6
22.5°	4134.9	3897.9	3281.3	2494.7	1517.4	861.2	707.3	749.7	933.9	1124.6	1146.3
25°	4077.3	3795.9	3072.6	2110.4	1004.7	615.7	593.0	644.9	769.6	897.0	909.3
27.5°	3999.0	3675.1	2838.5	1670.4	652.5	507.1	522.2	557.1	608.1	664.8	670.4
30°	3897.9	3530.6	2588.2	1218.1	492.9	456.1	477.8	496.7	518.4	550.5	553.3
32.5°	3781.8	3391.8	2331.4	841.3	437.2	429.6	446.6	456.1	473.1	492.9	494.8
35°	3684.5	3259.6	2065.1	594.9	413.6	409.8	421.1	424.9	441.0	462.7	464.6
37.5°	3628.8	3151.9	1790.3	479.7	397.5	391.9	398.5	398.5	421.1	453.2	458.0
40°	3632.6	3092.5	1515.5	433.4	384.3	376.8	377.7	377.7	407.0	441.9	444.7
42.5°	3735.5	3107.6	1271.9	415.5	373.9	365.4	360.7	363.5	388.1	410.8	412.6
45°	3977.2	3214.3	1043.4	404.1	363.5	360.7	350.3	349.4	358.8	369.2	369.2
47.5°	4373.8	3424.8	888.6	396.6	355.0	354.1	341.8	329.5	328.6	332.4	332.4
50°	5018.8	3787.4	784.7	388.1	349.4	341.8	327.7	308.8	302.2	305.0	305.0
52.5°	5985.7	4434.3	745.0	376.8	337.1	324.8	308.8	289.9	284.2	285.2	285.2
55°	7253.8	5427.6	739.4	363.5	323.9	304.1	290.8	276.7	270.1	271.9	271.9
57.5°	8803.4	6801.5	840.4	342.8	305.9	283.3	275.7	266.3	261.6	264.4	263.4
60°	10687.2	8599.4	1246.4	321.0	288.0	264.4	264.4	256.8	253.1	255.9	255.0
62.5°	12857.1	10664.5	1752.6	305.0	269.1	249.3	253.1	249.3	245.5	247.4	246.5
65°	14781.5	12010.1	1641.1	292.7	250.2	235.1	241.7	239.8	237.0	238.9	238.0
67.5°	14837.2	11511.5	921.6	279.5	232.3	221.0	230.4	229.5	227.6	229.5	228.5
70°	13241.4	9720.2	519.3	255.0	213.4	204.0	217.2	216.2	214.3	218.1	217.2
72.5°	10608.8	7053.6	379.6	224.7	194.5	186.0	201.1	200.2	200.2	205.8	203.0
75°	6104.7	3629.7	303.1	192.6	174.7	168.1	181.3	182.2	184.1	191.7	186.0
77.5°	1740.3	1131.2	247.4	163.4	150.1	147.3	160.5	162.4	163.4	171.9	164.3
80°	646.8	521.2	204.0	136.9	122.8	123.7	136.0	138.8	139.8	148.2	138.8
82.5°	412.6	343.7	165.2	105.8	96.3	95.4	110.5	114.3	114.3	115.2	109.5
85°	240.8	205.8	124.6	76.5	68.0	65.2	82.2	88.8	85.9	84.0	80.3
87.5°	161.5	141.6	76.5	42.5	36.8	34.9	48.2	52.9	51.0	48.2	45.3
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)