

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387057

Luminaire Tested: GAW-SA2D-740-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-740-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15863 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

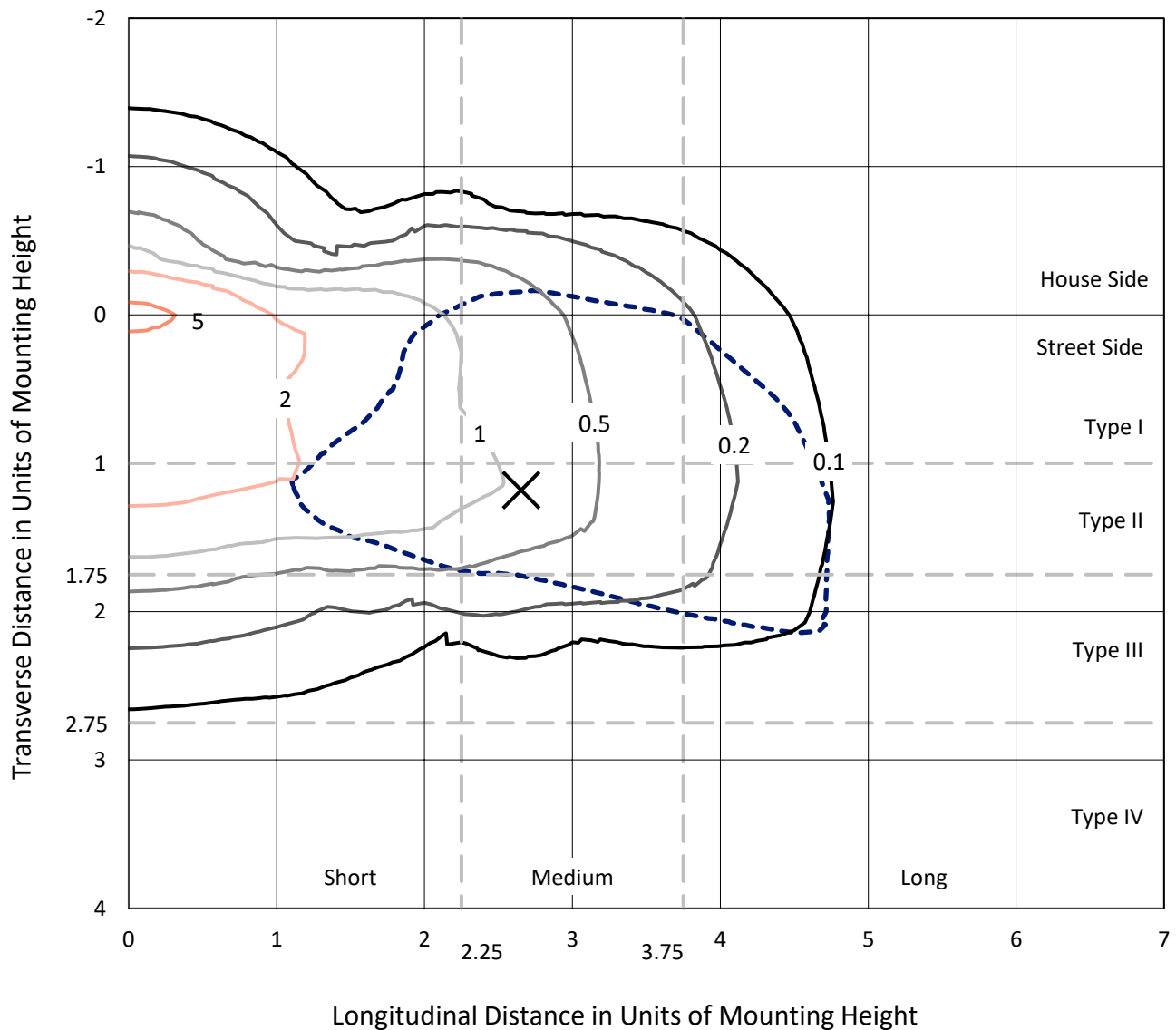
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

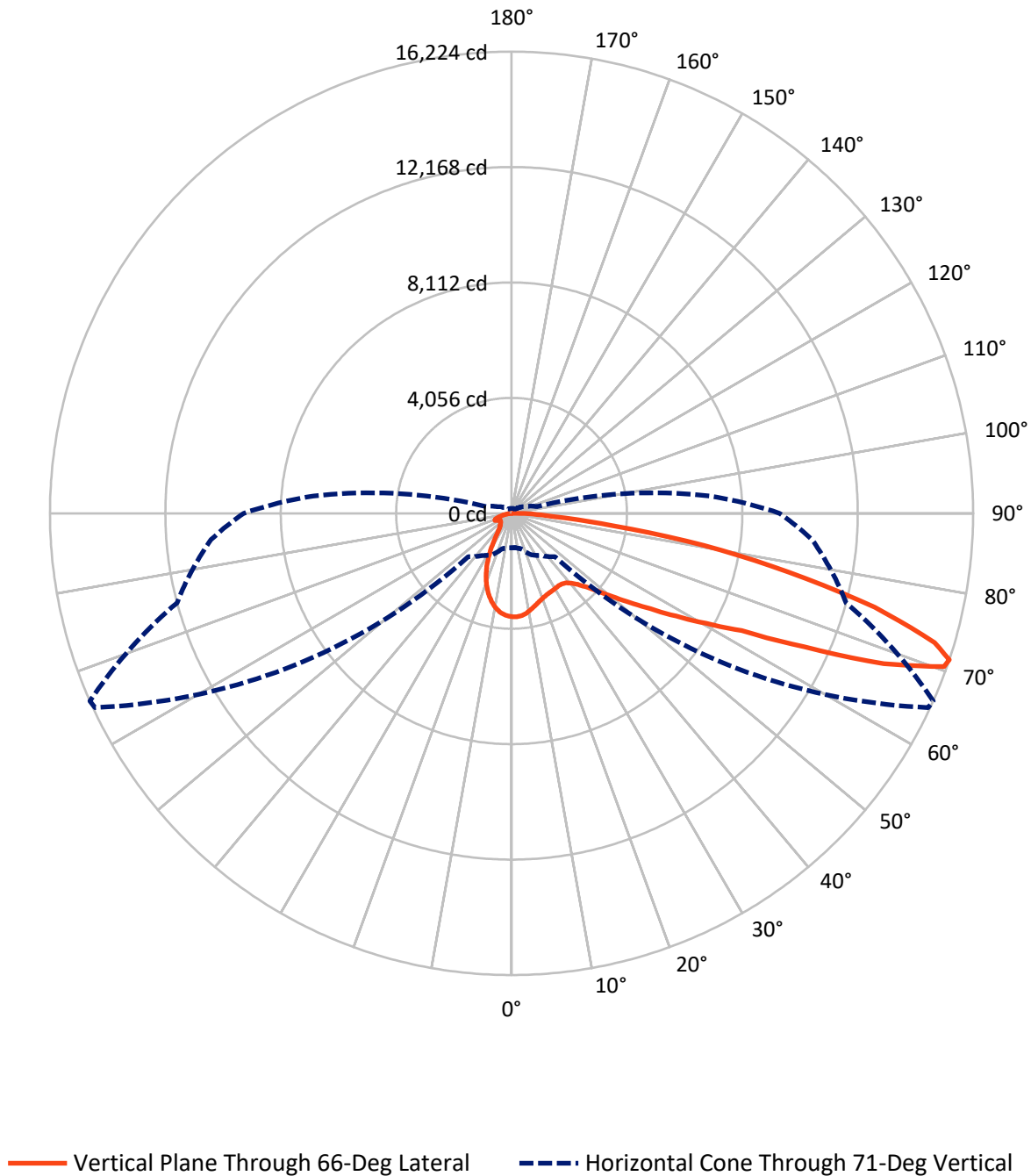
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2939.8	0.0	2939.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	12923.2	0.0	12923.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	15863.0	0.0	15863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.9	2.0
10°-20°	767.2	4.8
20°-30°	1030.5	6.5
30°-40°	1355.6	8.5
40°-50°	1972.1	12.4
50°-60°	3080.6	19.4
60°-70°	3859.0	24.3
70°-80°	2943.5	18.6
80°-90°	534.5	3.4
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°	15863.0	100.0
0°-180°	15863.0	100.0

Coefficient of Utilization



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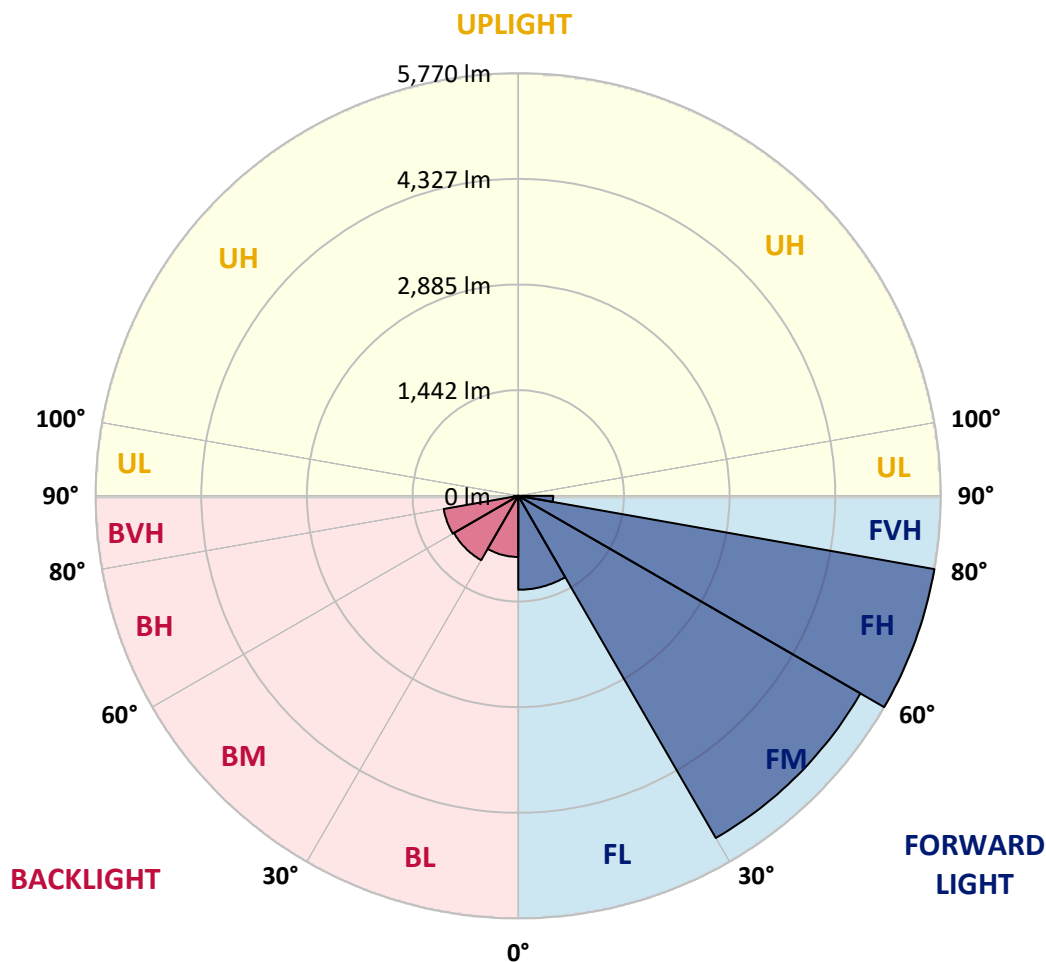
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1282.7	8.1			
FM	(30°-60°)	5394.2	34.0			
FH	(60°-80°)	5769.5	36.4			G3/7500
FVH	(80°-90°)	476.7	3.0			G3/500
BL	(0°-30°)	834.8	5.3	B2/1000		
BM	(30°-60°)	1014.2	6.4	B2/2500		
BH	(60°-80°)	1033.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	57.9	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9
2.5°	3566.5	3561.1	3577.5	3594.5	3601.0	3612.0	3628.4	3637.7	3637.2	3638.8	3633.4
5°	3329.9	3322.8	3355.7	3382.5	3434.0	3492.1	3562.7	3613.1	3614.2	3642.7	3650.3
7.5°	3105.9	3101.0	3138.8	3182.1	3241.8	3330.5	3445.0	3553.4	3560.0	3637.2	3664.0
10°	2926.3	2925.2	2961.9	3009.0	3078.6	3177.7	3309.1	3468.0	3477.8	3610.9	3666.2
12.5°	2786.1	2788.3	2820.0	2873.7	2947.1	3050.6	3193.0	3372.1	3388.0	3569.3	3653.6
15°	2682.6	2691.3	2717.1	2771.3	2843.6	2948.7	3095.0	3283.4	3307.5	3522.7	3646.5
17.5°	2623.4	2633.3	2651.4	2696.3	2764.2	2865.5	3004.1	3210.5	3232.5	3487.1	3647.1
20°	2605.9	2614.1	2624.5	2651.9	2709.4	2801.4	2932.3	3144.8	3168.4	3458.6	3652.5
22.5°	2640.4	2646.4	2647.5	2645.3	2680.4	2755.4	2880.3	3096.6	3121.8	3440.0	3656.4
25°	2714.3	2722.6	2716.5	2696.3	2684.8	2730.8	2853.5	3064.9	3090.1	3426.3	3648.7
27.5°	2825.5	2826.6	2821.7	2795.4	2741.2	2733.5	2845.2	3046.2	3070.3	3410.4	3632.8
30°	2976.7	2983.8	2975.0	2939.4	2850.7	2777.3	2855.1	3028.2	3050.1	3390.2	3607.1
32.5°	3153.6	3171.1	3170.6	3133.3	3006.3	2875.4	2895.6	3017.2	3034.2	3368.8	3575.9
35°	3337.1	3361.2	3406.1	3390.2	3233.0	3030.4	2973.4	3034.7	3046.2	3366.1	3553.9
37.5°	3527.7	3551.8	3644.3	3687.0	3503.0	3252.2	3096.1	3096.6	3102.1	3399.5	3552.3
40°	3727.0	3752.8	3891.9	4003.0	3853.0	3533.1	3293.8	3225.9	3219.9	3481.6	3584.6
42.5°	4006.3	4029.3	4196.4	4338.2	4241.3	3893.0	3567.1	3425.2	3412.6	3642.7	3688.1
45°	4359.6	4379.3	4556.8	4708.5	4658.6	4303.7	3910.5	3699.6	3697.4	3911.0	3897.9
47.5°	4779.7	4795.0	4954.4	5101.2	5119.2	4776.4	4342.1	4123.0	4087.4	4279.1	4222.7
50°	5217.3	5234.2	5342.7	5500.4	5634.6	5409.0	4897.4	4641.7	4594.0	4764.9	4682.7
52.5°	5507.0	5529.5	5623.7	5823.6	6214.1	6102.3	5554.1	5270.4	5198.1	5353.6	5290.7
55°	5377.7	5428.1	5572.2	5892.6	6677.4	7161.6	6364.1	6003.7	5922.1	6051.4	6014.2
57.5°	4790.1	4859.1	5055.7	5550.3	6742.6	8094.8	7588.8	6867.5	6809.9	6772.7	6789.7
60°	3716.1	3782.3	4026.1	4670.7	6288.5	8776.1	9431.7	7932.2	7848.9	7496.7	7512.1
62.5°	2630.0	2596.6	2763.6	3235.2	5109.9	8856.1	11528.8	9356.1	9082.3	8261.3	8194.0
65°	2005.6	1998.0	2073.0	2223.1	3095.0	7899.3	12778.1	11749.5	11321.8	9160.6	9001.8
67.5°	1648.0	1634.3	1708.2	1926.8	1993.0	5096.2	12805.5	14526.3	14106.2	10280.1	9936.1
70°	1355.0	1339.6	1408.7	1690.7	1841.9	2584.5	10777.4	16152.4	16129.9	11697.5	10641.6
71°	1214.8	1203.8	1286.5	1599.8	1809.6	2154.1	9305.2	16156.8	16224.1	12177.3	10599.9
72.5°	989.1	993.0	1080.6	1424.0	1785.5	1902.1	6839.0	15403.7	15546.1	12634.6	10221.5
75°	657.2	660.5	775.5	1095.4	1731.2	1861.0	3758.8	12925.4	13187.2	12360.8	9327.1
77.5°	441.4	440.3	518.7	751.4	1508.3	1861.0	2203.9	9667.2	9954.8	9835.4	7190.6
80°	304.0	301.8	357.1	518.7	1141.9	1883.5	1703.9	6774.9	6862.0	5311.5	2922.5
82.5°	186.2	187.9	233.3	366.4	777.2	1695.1	1608.6	3694.2	3599.4	1489.7	730.1
85°	106.8	106.3	149.0	248.1	498.9	1430.6	1568.6	1589.9	1458.5	448.6	264.0
87.5°	38.3	41.1	80.0	137.5	285.9	996.2	1330.9	827.0	745.4	202.6	119.4
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°	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9	3633.9
2.5°	3629.5	3632.8	3629.0	3607.1	3588.4	3558.3	3541.3	3517.8	3510.7	3507.4	3516.2
5°	3643.2	3644.3	3612.0	3554.5	3489.9	3413.7	3359.0	3291.6	3259.8	3246.1	3254.9
7.5°	3655.8	3650.9	3580.2	3470.1	3350.8	3218.2	3100.5	2992.6	2929.6	2903.8	2906.0
10°	3657.5	3636.6	3523.3	3352.9	3167.8	2973.4	2792.7	2626.2	2521.0	2452.5	2473.4
12.5°	3640.5	3605.4	3439.5	3201.2	2944.4	2679.3	2435.0	2185.3	2035.2	1965.7	1967.8
15°	3627.3	3563.8	3336.5	3022.7	2677.6	2326.6	1993.0	1699.5	1539.5	1468.4	1434.9
17.5°	3616.4	3518.9	3217.1	2821.7	2362.7	1917.5	1516.5	1254.8	1167.1	1146.3	1137.5
20°	3601.0	3471.2	3084.0	2588.9	2004.0	1459.6	1107.4	978.2	978.7	1002.8	1006.1
22.5°	3579.7	3417.0	2942.2	2327.7	1619.0	1063.1	868.1	830.8	868.6	914.6	922.9
25°	3547.9	3352.9	2784.4	2039.0	1234.5	817.1	741.6	739.9	785.9	834.1	841.2
27.5°	3503.0	3269.1	2609.2	1729.0	909.7	694.5	664.3	675.8	709.8	744.9	747.6
30°	3442.8	3171.7	2415.8	1402.1	713.1	618.3	615.1	625.5	646.3	670.9	673.1
32.5°	3376.5	3072.5	2209.4	1085.5	610.7	577.3	580.5	585.5	595.3	605.2	607.4
35°	3316.2	2971.2	1998.0	824.8	561.9	550.4	548.2	547.1	548.2	544.9	545.5
37.5°	3277.4	2887.4	1777.8	656.7	534.0	526.9	520.3	512.1	502.8	497.3	498.4
40°	3263.1	2825.0	1554.9	567.4	511.0	506.1	493.5	475.9	465.0	461.7	461.7
42.5°	3301.5	2792.7	1339.6	522.5	491.8	483.6	462.8	442.5	434.3	433.8	433.2
45°	3418.7	2805.8	1134.8	497.8	474.3	458.4	431.0	414.1	408.6	409.7	409.1
47.5°	3629.0	2888.5	959.5	481.4	456.8	436.0	405.3	391.6	385.0	385.0	385.6
50°	3986.6	3081.8	819.9	467.7	442.0	415.1	386.7	369.7	360.9	360.4	360.4
52.5°	4507.5	3428.0	732.8	456.2	425.6	396.5	368.0	346.7	336.3	334.1	333.0
55°	5160.3	3924.2	708.7	448.6	403.6	376.3	345.6	324.2	312.7	307.8	307.3
57.5°	5890.4	4527.7	756.4	439.2	381.2	352.2	320.9	300.7	288.6	282.6	282.1
60°	6629.2	5186.6	950.8	426.1	362.6	325.9	295.8	277.1	265.1	258.5	257.4
62.5°	7369.1	5881.1	1347.9	425.0	349.4	300.7	270.0	254.1	242.6	235.5	233.9
65°	8203.8	6641.3	1799.2	454.0	345.0	277.7	243.7	231.1	221.3	214.7	214.1
67.5°	9162.3	7499.5	1755.9	513.7	359.8	256.9	219.1	209.2	202.1	196.6	196.1
70°	9611.9	7365.3	1091.5	555.9	380.6	236.6	195.5	188.4	182.9	179.1	177.5
71°	9423.5	6993.4	915.2	551.0	378.5	227.8	186.2	180.7	175.3	172.0	170.3
72.5°	8909.8	6377.8	763.5	512.6	353.8	212.0	174.2	168.7	163.8	159.9	158.8
75°	7995.1	5695.9	611.2	409.7	282.1	179.1	152.8	146.8	142.9	140.8	138.6
77.5°	5877.2	4064.9	472.7	323.7	207.6	146.2	130.3	126.0	122.1	118.8	117.2
80°	2251.5	1574.6	318.2	241.5	152.3	115.6	105.2	103.0	99.1	96.9	96.9
82.5°	606.3	470.5	169.8	146.2	101.9	84.3	80.5	79.4	76.1	71.7	72.3
85°	245.4	207.6	95.3	80.5	62.4	49.8	54.2	54.8	50.9	45.5	46.0
87.5°	107.9	88.2	53.1	35.6	27.4	19.2	24.6	24.6	22.5	18.6	17.0
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)