

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: P387031

Luminaire Tested: GAW-SA2D-730-U-SL3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-730-U-SL3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14748 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

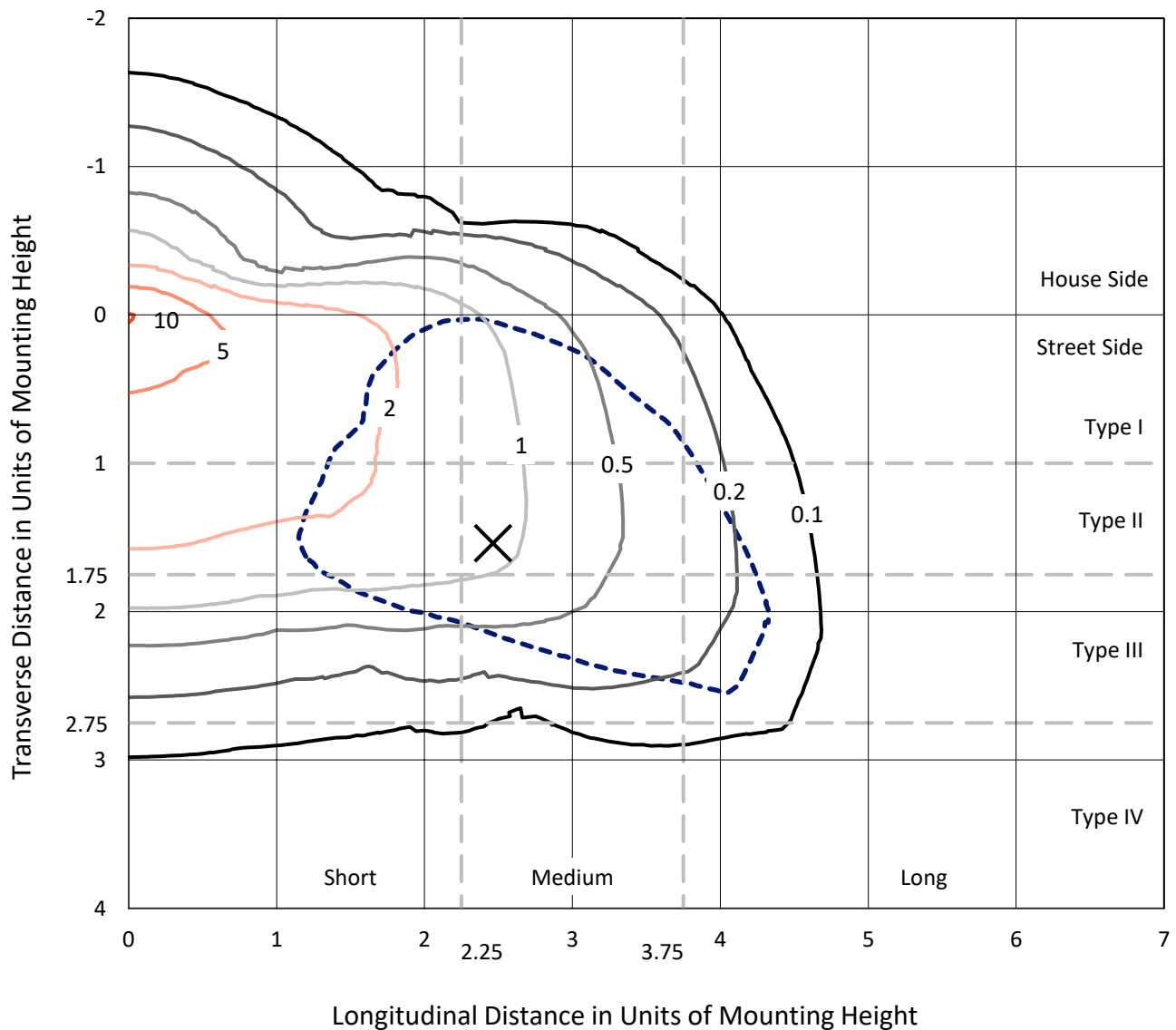
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

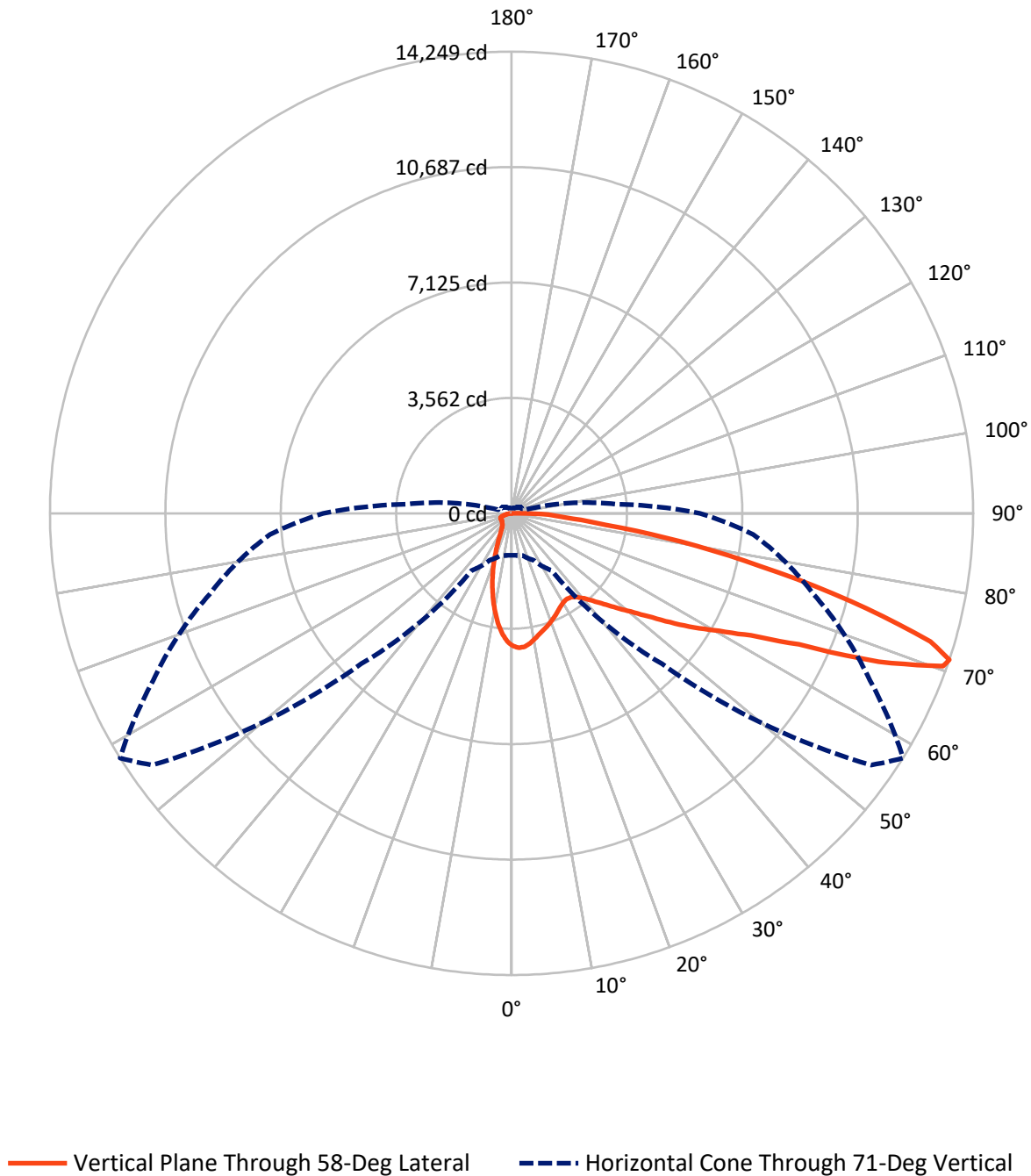
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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	2204.9	0.0	2204.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12543.1	0.0	12543.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	14748.0	0.0	14748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	2.4
10°-20°	783.9	5.3
20°-30°	996.2	6.8
30°-40°	1269.0	8.6
40°-50°	1799.5	12.2
50°-60°	2784.7	18.9
60°-70°	3791.0	25.7
70°-80°	2529.1	17.1
80°-90°	442.2	3.0
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°	14748.0	100.0
0°-180°	14748.0	100.0

Coefficient of Utilization



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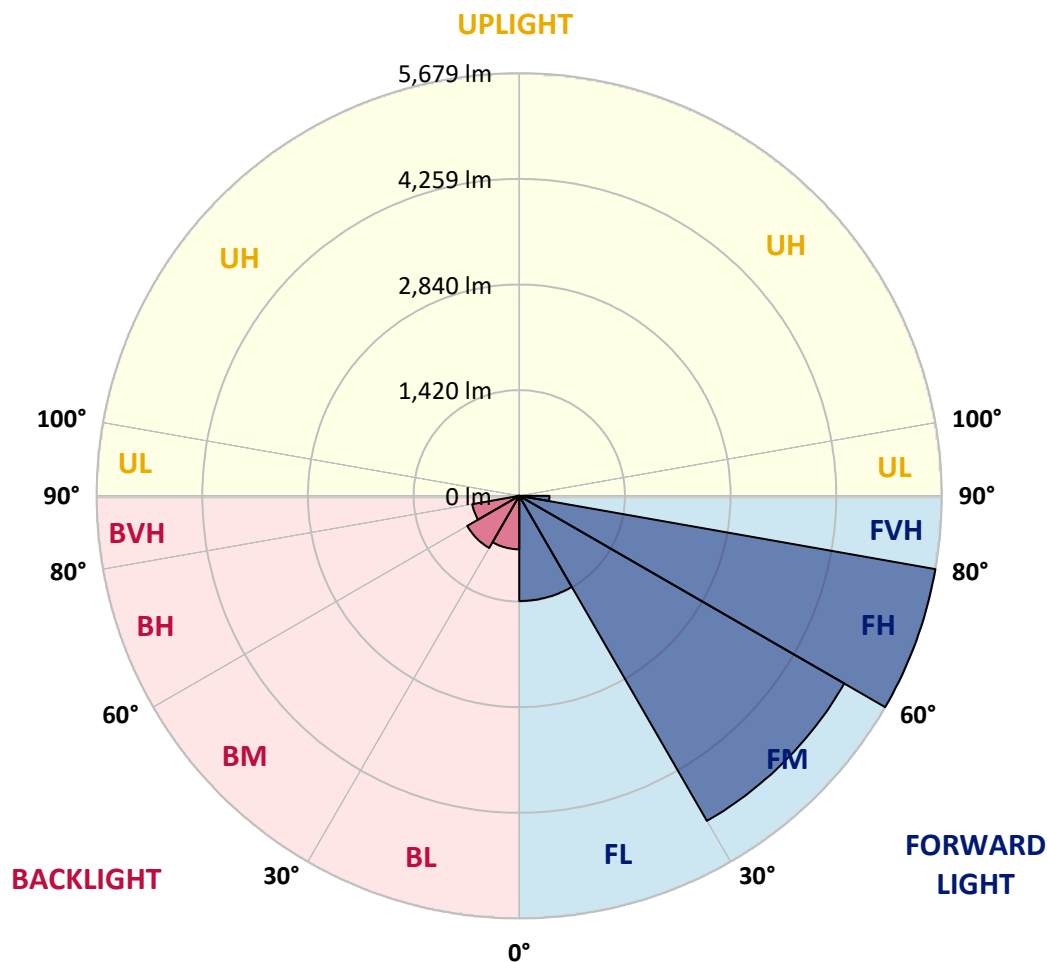
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.8	9.6			
FM	(30°-60°)	5044.5	34.2			
FH	(60°-80°)	5679.3	38.5			G3/7500
FVH	(80°-90°)	405.4	2.7			G3/500
BL	(0°-30°)	718.7	4.9	B2/1000		
BM	(30°-60°)	808.6	5.5	B1/1000		
BH	(60°-80°)	640.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.7	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2
2.5°	4194.6	4188.9	4191.0	4186.9	4177.1	4167.4	4153.0	4155.5	4135.5	4105.7	4068.7
5°	4115.5	4113.4	4128.8	4137.6	4144.7	4139.1	4135.0	4140.1	4110.8	4069.7	4005.5
7.5°	3949.5	3926.9	3946.4	3975.7	4003.5	4024.5	4052.3	4055.9	4037.4	3994.2	3910.0
10°	3713.7	3692.2	3720.9	3766.6	3822.1	3872.5	3928.5	3938.7	3942.3	3903.3	3801.1
12.5°	3469.2	3452.8	3481.5	3545.7	3637.7	3715.3	3804.7	3820.1	3851.9	3825.7	3700.4
15°	3250.3	3244.2	3279.1	3342.3	3448.1	3566.8	3695.7	3724.0	3777.9	3769.2	3621.8
17.5°	3061.3	3059.8	3086.5	3152.7	3269.9	3419.9	3587.4	3635.1	3715.3	3725.5	3557.0
20°	2920.5	2917.5	2935.9	2984.8	3105.5	3275.5	3470.2	3536.0	3651.6	3687.5	3490.3
22.5°	2845.0	2844.5	2845.0	2868.1	2966.8	3125.0	3356.2	3436.3	3589.4	3657.2	3416.3
25°	2832.2	2830.6	2819.3	2816.8	2872.8	2999.1	3243.2	3331.5	3530.3	3636.2	3345.9
27.5°	2865.6	2867.6	2852.7	2828.6	2839.9	2916.4	3145.0	3239.6	3483.1	3632.0	3297.1
30°	2934.9	2933.9	2921.0	2895.9	2873.8	2885.6	3075.2	3169.7	3451.2	3650.0	3263.7
32.5°	3011.5	3017.1	3014.5	3000.7	2967.8	2920.5	3054.1	3146.6	3442.0	3693.2	3249.3
35°	3103.4	3109.6	3128.1	3138.9	3100.3	3024.3	3099.3	3179.5	3468.7	3774.3	3272.4
37.5°	3190.8	3206.7	3258.6	3304.3	3271.4	3186.6	3219.5	3276.5	3551.4	3902.3	3334.6
40°	3291.4	3305.3	3390.1	3487.2	3482.0	3394.2	3413.2	3451.2	3697.3	4085.7	3447.1
42.5°	3390.6	3418.3	3541.1	3678.8	3718.4	3640.8	3671.1	3691.1	3902.8	4328.7	3643.3
45°	3522.6	3552.4	3723.0	3888.9	3981.4	3937.7	3986.0	3993.7	4161.2	4659.5	3928.5
47.5°	3722.5	3756.4	3955.2	4129.3	4270.6	4275.2	4354.9	4351.8	4483.8	5038.1	4287.6
50°	4033.8	4082.6	4245.4	4408.3	4579.9	4675.4	4781.8	4766.9	4870.6	5441.4	4701.1
52.5°	4441.7	4464.3	4585.0	4705.2	4918.4	5132.6	5285.2	5271.9	5309.4	5856.0	5170.7
55°	4864.5	4881.4	4931.3	4997.0	5283.7	5633.0	5955.6	5934.6	5839.5	6286.5	5634.6
57.5°	5244.6	5279.1	5313.5	5340.7	5651.5	6156.0	6641.5	6643.0	6414.9	6750.9	6113.9
60°	5303.7	5334.0	5561.6	5776.3	6280.8	6853.6	7375.6	7360.2	7010.3	7254.8	6648.1
62.5°	4688.3	4756.6	5136.8	5708.0	6887.0	8129.7	8312.1	8293.1	7722.3	7875.9	7270.3
65°	3359.8	3437.3	3896.1	4754.5	6593.2	9535.8	10002.3	9746.4	8693.3	8639.9	7998.7
67.5°	1938.3	1956.8	2155.6	2845.0	5020.1	9609.3	12580.7	12222.6	10201.1	9506.5	8355.3
70°	1433.3	1432.8	1480.0	1750.8	2716.6	7842.6	13806.9	14128.0	11788.5	9791.6	7851.3
71°	1296.1	1297.7	1350.6	1593.6	2151.5	6564.4	13546.5	14249.2	12206.7	9650.9	7486.5
72.5°	1108.6	1113.8	1187.2	1429.2	1809.9	4527.0	12424.5	13521.8	12405.0	9303.6	6915.8
75°	841.0	852.8	954.5	1204.7	1654.2	2295.8	9118.6	10797.5	11020.0	8209.4	5138.8
77.5°	600.0	613.4	728.5	1013.1	1572.5	1730.2	6106.7	7875.9	8109.7	5261.1	2317.9
80°	379.1	395.1	481.9	806.0	1477.5	1642.9	3837.5	5294.0	4422.2	1683.5	589.8
82.5°	222.4	234.8	299.0	526.6	1206.7	1582.3	2257.8	2934.4	1721.0	508.6	268.2
85°	128.9	134.6	186.5	335.5	876.4	1493.4	1658.8	1640.3	747.0	248.6	126.9
87.5°	60.1	66.8	110.5	175.2	486.5	1082.4	1311.0	1132.8	464.4	116.6	59.6
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°	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2	4086.2
2.5°	4050.7	4042.0	4005.5	3973.2	3939.3	3895.1	3846.3	3840.1	3810.3	3816.0	3805.7
5°	3970.6	3948.5	3860.7	3781.0	3687.0	3602.8	3511.3	3469.2	3408.6	3404.5	3389.1
7.5°	3856.0	3814.9	3678.8	3527.8	3376.7	3232.9	3090.6	2997.1	2901.5	2860.9	2857.3
10°	3727.1	3657.2	3456.9	3233.4	3015.6	2805.5	2602.0	2451.5	2315.9	2251.7	2249.1
12.5°	3604.8	3501.6	3226.7	2922.6	2624.6	2352.4	2073.4	1875.6	1705.6	1648.5	1624.4
15°	3501.0	3355.7	3002.7	2613.8	2252.2	1874.1	1556.6	1348.5	1191.3	1136.9	1126.6
17.5°	3400.4	3213.4	2773.1	2302.0	1864.8	1449.2	1131.2	976.6	892.9	870.8	870.3
20°	3300.2	3066.9	2533.2	1983.0	1490.3	1084.0	869.7	800.4	772.1	769.6	765.5
22.5°	3186.6	2911.8	2280.9	1662.9	1163.1	852.3	739.3	711.5	707.9	717.2	717.2
25°	3080.3	2757.7	2025.1	1349.6	904.7	711.0	660.1	654.5	664.2	680.7	682.2
27.5°	2981.2	2609.2	1775.4	1071.1	724.9	626.2	605.2	611.8	629.3	648.3	648.8
30°	2899.5	2469.0	1533.0	844.1	612.4	563.0	559.4	572.8	591.8	606.7	610.3
32.5°	2836.3	2349.3	1298.7	678.6	538.9	515.8	518.9	530.2	542.0	550.2	555.9
35°	2807.0	2246.5	1082.4	572.3	492.2	479.3	483.4	489.6	494.7	500.9	505.5
37.5°	2812.1	2166.9	889.3	506.0	460.8	454.1	454.1	454.1	454.1	457.2	457.7
40°	2859.9	2121.2	732.1	463.9	439.8	432.6	426.9	421.8	417.7	419.7	418.7
42.5°	2982.2	2117.1	617.0	437.2	422.8	411.0	399.7	392.5	387.3	389.4	390.4
45°	3189.7	2168.4	539.4	418.2	406.9	388.9	374.5	366.8	363.2	369.9	370.9
47.5°	3458.4	2280.4	492.2	404.3	392.0	368.3	352.9	345.7	346.8	356.5	359.1
50°	3804.7	2462.3	469.5	395.6	381.7	350.9	334.9	328.8	331.9	345.7	348.8
52.5°	4184.8	2724.3	472.1	393.0	375.0	338.0	321.1	313.9	319.0	331.9	334.4
55°	4623.5	3039.2	514.8	396.6	365.3	329.8	309.8	297.4	301.6	313.4	315.4
57.5°	5111.1	3399.8	600.5	395.6	352.9	322.1	298.0	279.5	282.5	289.7	291.8
60°	5618.6	3835.5	733.6	398.7	347.3	312.9	282.0	258.9	257.9	264.1	265.1
62.5°	6227.9	4339.4	885.7	400.7	350.9	301.0	261.0	238.4	235.3	236.8	237.9
65°	6855.7	4704.2	828.6	392.5	362.2	291.3	242.5	218.3	212.7	211.7	212.2
67.5°	6875.2	4313.2	581.0	376.0	366.8	286.1	228.6	201.4	192.1	188.5	188.0
70°	6165.7	3504.1	452.6	358.6	348.3	277.9	215.8	187.5	173.6	168.0	167.5
71°	5819.5	3225.7	429.0	349.8	334.4	269.7	210.1	181.3	167.0	160.8	159.8
72.5°	5276.5	2891.8	400.2	336.0	307.7	248.6	199.3	172.6	157.7	150.5	149.0
75°	3786.7	1891.0	343.7	299.5	254.8	198.3	174.7	155.1	142.3	133.6	132.5
77.5°	1459.0	752.6	259.9	249.2	195.2	155.1	143.8	134.1	124.8	116.1	115.6
80°	451.1	336.5	189.6	187.5	141.3	115.6	112.0	109.4	105.8	96.6	94.5
82.5°	240.9	193.2	130.5	121.2	92.5	77.1	81.2	82.2	82.7	72.9	71.9
85°	115.1	102.2	73.5	68.8	53.9	43.2	49.8	53.9	54.5	44.7	41.6
87.5°	55.0	53.4	34.4	26.2	20.0	14.4	17.5	21.6	23.6	17.0	14.9
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)