

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: P323020

Luminaire Tested: **GAN-SA6D-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24726 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

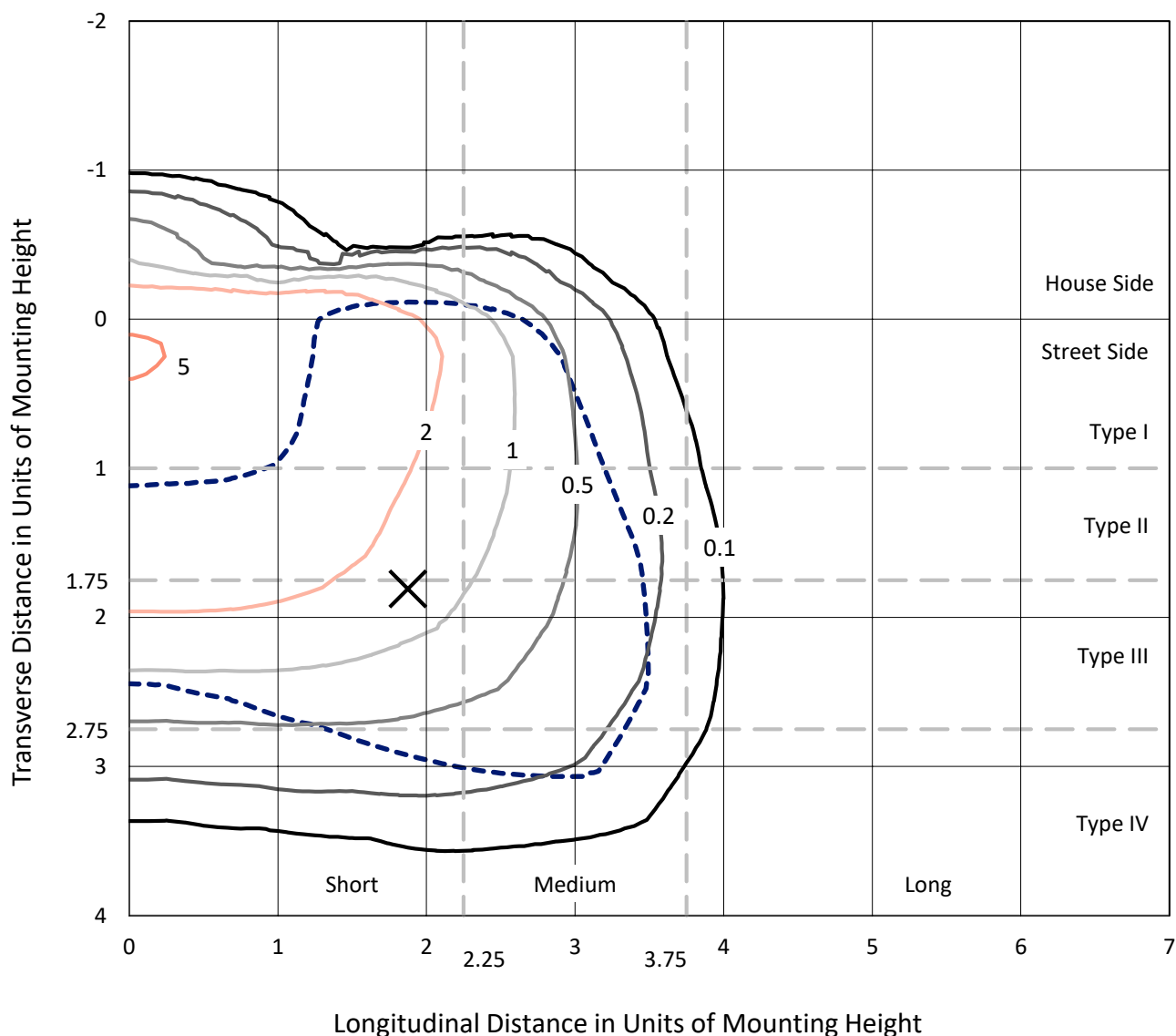
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

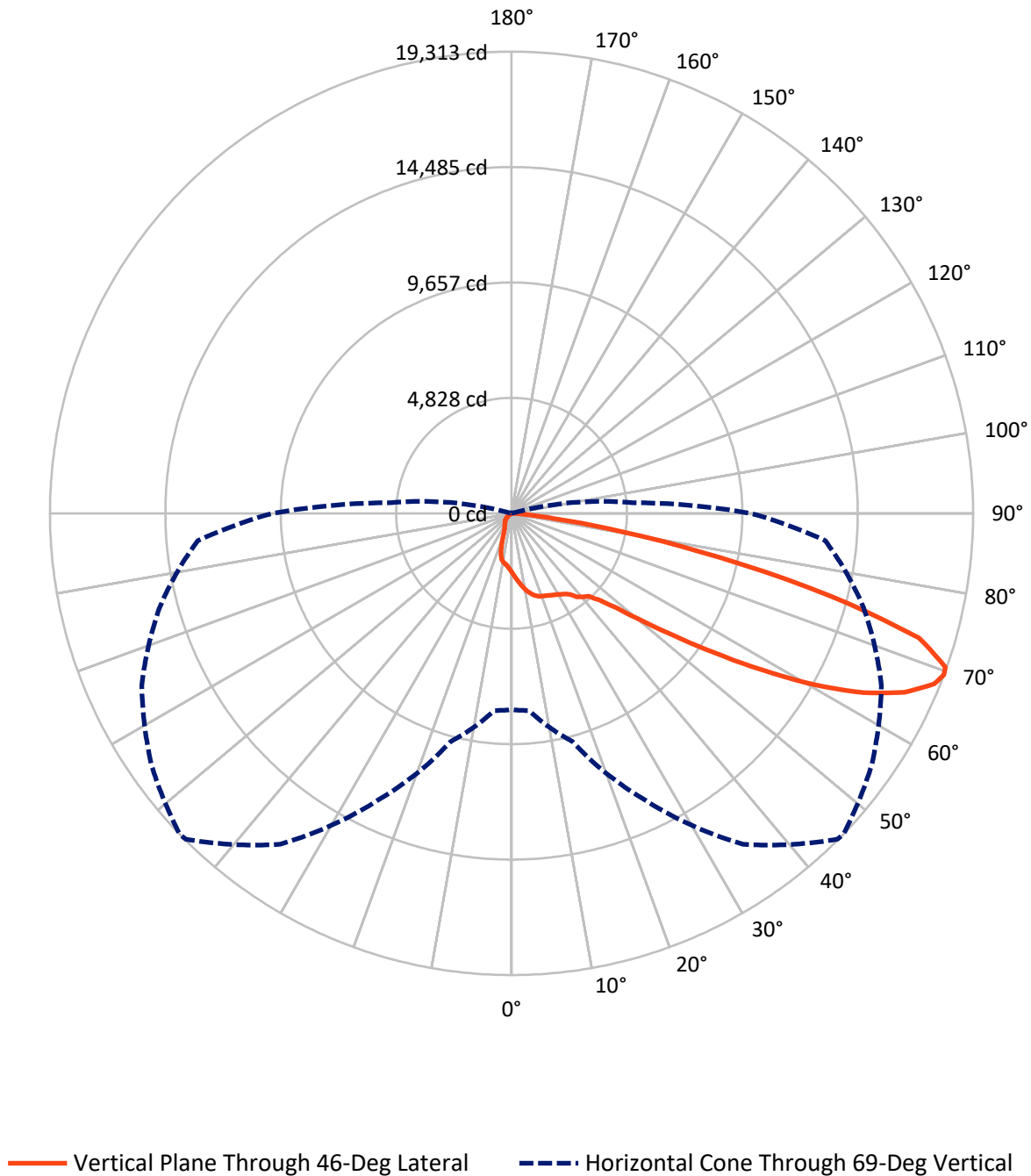
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2537.6	0.0	2537.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22188.4	0.0	22188.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	24726.0	0.0	24726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	1.0
10°-20°	748.1	3.0
20°-30°	1176.5	4.8
30°-40°	1687.1	6.8
40°-50°	2916.0	11.8
50°-60°	5760.8	23.3
60°-70°	8051.2	32.6
70°-80°	3889.6	15.7
80°-90°	250.0	1.0
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°	24726.0	100.0
0°-180°	24726.0	100.0

Coefficient of Utilization



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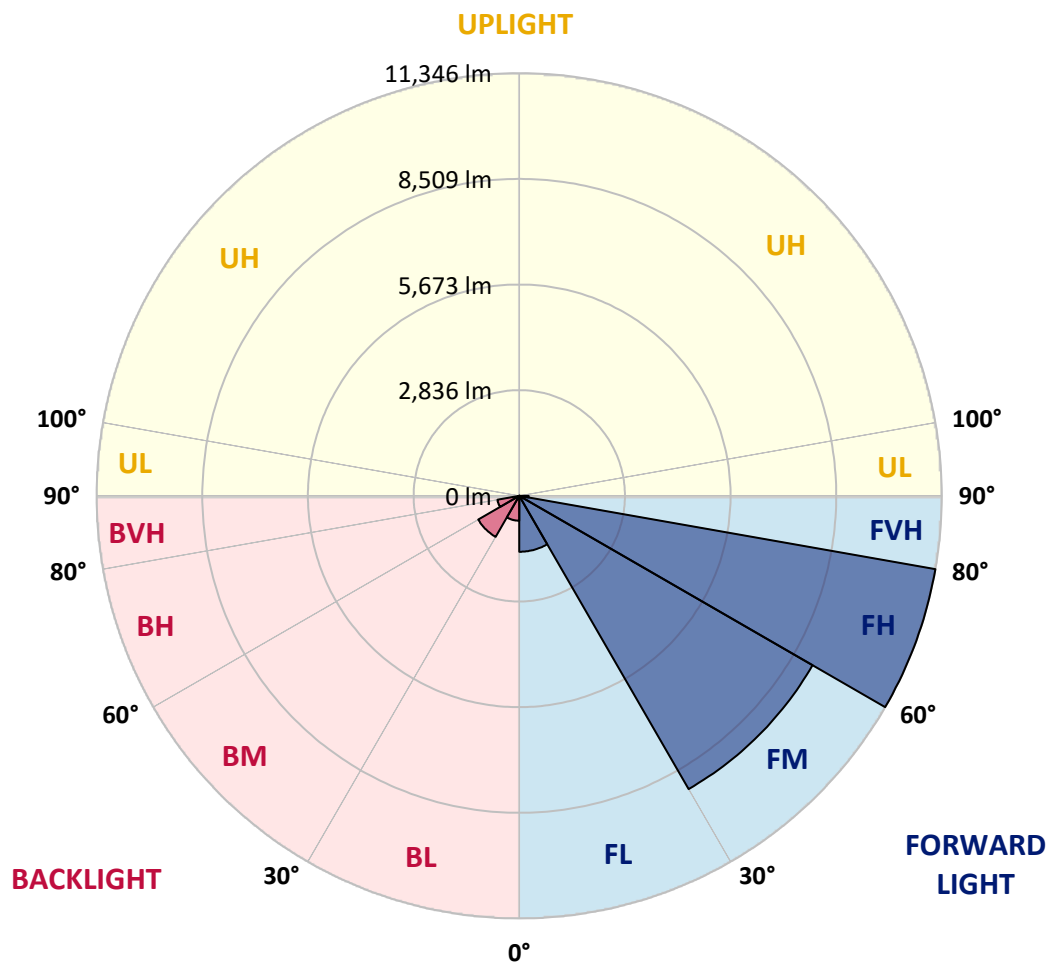
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.4	6.1			
FM	(30°-60°)	9092.3	36.8			
FH	(60°-80°)	11345.8	45.9			G4/12000
FVH	(80°-90°)	247.9	1.0			G3/500
BL	(0°-30°)	668.8	2.7	B2/1000		
BM	(30°-60°)	1271.6	5.1	B2/2500		
BH	(60°-80°)	595.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.1	0.0			G0/10
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°	45°	46°	55°	65°	75°	85°
0°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2752.2	2748.7	2732.5	2725.5	2686.1	2662.9	2653.7	2624.7	2583.0	2541.2	2494.8
5°	3065.2	3064.1	3033.9	3004.9	2930.7	2861.2	2848.4	2781.2	2687.3	2599.2	2511.1
7.5°	3385.2	3370.1	3340.0	3284.3	3176.5	3065.2	3054.8	2959.7	2826.4	2698.9	2572.5
10°	3656.5	3647.2	3607.8	3523.2	3396.8	3270.4	3257.7	3140.6	2989.9	2833.4	2672.2
12.5°	3867.5	3860.5	3808.3	3702.8	3568.4	3437.4	3420.0	3315.6	3154.5	2979.4	2789.3
15°	3996.2	3992.7	3928.9	3816.5	3684.3	3570.7	3555.6	3464.0	3314.5	3131.3	2916.8
17.5°	4026.3	4027.5	3961.4	3847.8	3738.8	3657.6	3646.0	3576.5	3451.3	3269.3	3044.4
20°	3959.1	3973.0	3913.8	3815.3	3748.1	3705.2	3695.9	3654.2	3548.7	3377.1	3146.4
22.5°	3864.0	3870.9	3830.4	3764.3	3736.5	3744.6	3739.9	3716.8	3627.5	3469.8	3247.2
25°	3806.0	3806.0	3781.7	3726.0	3744.6	3794.4	3795.6	3791.0	3720.2	3583.4	3370.1
27.5°	3803.7	3796.8	3768.9	3727.2	3778.2	3854.7	3859.4	3890.7	3846.6	3721.4	3523.2
30°	3896.5	3888.3	3829.2	3774.7	3839.6	3922.0	3933.6	4001.9	3979.9	3870.9	3693.6
32.5°	4113.2	4084.3	3953.3	3864.0	3912.7	4011.2	4026.3	4135.3	4170.1	4055.3	3858.2
35°	4410.0	4318.4	4129.5	4033.3	4037.9	4141.1	4155.0	4315.0	4418.1	4224.5	3985.7
37.5°	4819.3	4774.1	4466.8	4209.5	4230.3	4386.8	4427.4	4601.3	4572.3	4317.3	4130.6
40°	5716.6	5645.9	5318.9	4703.3	4414.7	4586.2	4599.0	4691.7	4694.1	4527.1	4432.1
42.5°	6938.5	6909.5	6565.2	5599.5	4777.5	4719.6	4742.8	4899.3	5074.3	4970.0	4965.3
45°	8291.4	8276.3	7911.2	6788.9	5511.4	5156.6	5185.6	5395.4	5730.5	5753.7	5900.9
47.5°	9380.0	9373.0	9163.2	8116.4	6634.8	5897.4	5906.7	6129.3	6718.2	7009.2	7244.5
50°	10372.4	10406.0	10240.2	9552.7	8165.0	7057.9	7035.9	7184.3	8130.3	8606.7	8898.9
52.5°	11752.0	11799.5	11334.6	10892.9	9770.7	8497.8	8480.4	8635.7	9827.5	10184.6	10236.7
55°	12970.4	12889.2	12521.7	12394.2	11728.8	10276.2	10271.5	10408.3	11469.1	11621.0	11717.2
57.5°	13508.3	13477.0	13654.4	13946.5	13779.6	12378.0	12367.6	12263.2	12937.9	12954.2	13249.8
60°	13848.0	13886.3	14430.0	15330.8	15747.0	14639.8	14572.6	13936.1	14340.7	14304.8	14621.3
62.5°	13592.9	13668.3	14646.8	16148.1	17219.3	16614.1	16519.1	15468.7	15539.4	15415.4	15709.9
65°	12238.9	12356.0	13959.3	15993.9	17949.6	18157.2	18060.9	16821.6	16491.2	16287.2	16123.7
67.5°	9937.6	10007.2	11681.2	14652.6	17620.4	19077.7	19058.0	18007.6	17210.0	16140.0	14871.7
69°	8212.6	8281.0	9892.4	13240.5	16895.8	19274.7	19313.0	18387.9	17073.2	15245.0	13176.8
70°	6955.9	7028.9	8530.2	12030.2	16055.3	19183.2	19251.6	18351.9	16681.4	14208.5	11689.4
72.5°	3648.4	3711.0	5251.7	8287.9	13088.6	17614.6	17822.1	16800.8	14140.1	10319.0	6911.8
75°	1146.6	1182.5	2050.8	4332.4	8961.5	13696.1	13743.7	13179.1	10040.8	5676.0	2878.6
77.5°	437.1	426.6	682.8	1596.4	4530.6	8624.1	8915.1	8235.8	5269.1	2006.8	664.3
80°	235.3	236.5	354.7	660.8	1938.4	4432.1	4677.8	3991.5	1872.3	626.0	153.0
82.5°	102.0	106.7	199.4	350.1	890.4	1634.6	1757.5	1463.1	715.3	420.8	56.8
85°	22.0	24.3	96.2	190.1	362.9	459.1	481.1	474.2	455.6	326.9	22.0
87.5°	0.0	0.0	42.9	68.4	91.6	104.3	91.6	119.4	251.6	220.3	11.6
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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2479.8	2458.9	2423.0	2383.5	2355.7	2326.7	2303.6	2293.1	2281.5	2273.4	2283.8
5°	2475.1	2434.6	2365.0	2297.8	2249.1	2209.7	2177.2	2164.4	2151.7	2142.4	2141.3
7.5°	2515.7	2458.9	2352.2	2253.7	2178.3	2125.0	2081.0	2062.4	2047.3	2040.4	2034.6
10°	2593.4	2520.3	2377.8	2249.1	2151.7	2061.3	1966.2	1893.2	1845.6	1823.6	1815.5
12.5°	2694.2	2602.7	2426.4	2273.4	2132.0	1958.1	1756.4	1582.5	1470.0	1432.9	1410.9
15°	2812.5	2698.9	2490.2	2304.7	2060.1	1742.4	1400.5	1173.2	1068.9	1048.0	1024.8
17.5°	2926.1	2800.9	2566.7	2310.5	1902.4	1392.3	1026.0	871.8	831.2	845.1	848.6
20°	3025.8	2901.8	2642.1	2259.5	1616.1	1044.5	794.1	755.9	770.9	797.6	802.2
22.5°	3126.7	2999.1	2711.6	2125.0	1249.7	793.0	715.3	724.6	739.6	766.3	770.9
25°	3249.6	3117.4	2776.6	1878.1	937.9	674.7	679.4	693.3	708.3	732.7	735.0
27.5°	3391.0	3266.9	2819.5	1557.0	695.6	620.2	635.3	656.2	671.2	694.4	699.1
30°	3578.8	3464.0	2833.4	1224.2	583.1	571.5	578.5	604.0	626.0	646.9	650.4
32.5°	3755.0	3658.8	2787.0	924.0	540.2	526.3	526.3	541.4	566.9	586.6	591.2
35°	3917.3	3854.7	2638.6	675.9	507.8	484.6	473.0	473.0	489.2	505.5	510.1
37.5°	4131.8	4129.5	2398.6	539.1	476.5	449.8	425.5	406.9	401.1	404.6	406.9
40°	4499.3	4502.8	2085.6	483.4	449.8	413.9	376.8	343.2	311.9	301.4	300.3
42.5°	5073.2	5021.0	1757.5	456.8	426.6	376.8	321.1	275.9	227.2	212.2	211.0
45°	5984.4	5674.8	1409.7	432.4	402.3	335.0	265.5	204.0	164.6	153.0	153.0
47.5°	7311.8	6533.9	1092.1	405.8	369.8	287.5	200.6	147.2	120.6	114.8	115.9
50°	8684.4	7375.6	837.0	372.1	330.4	237.7	148.4	106.7	91.6	91.6	92.7
52.5°	9901.7	7992.3	652.7	336.2	281.7	186.6	112.5	83.5	76.5	75.4	76.5
55°	11041.3	8390.0	499.7	294.5	223.7	139.1	85.8	68.4	63.8	61.4	60.3
57.5°	12140.3	8587.0	374.5	237.7	162.3	100.9	68.4	58.0	53.3	49.9	48.7
60°	12871.9	8427.0	257.4	175.1	112.5	73.0	56.8	49.9	44.1	40.6	39.4
62.5°	13284.6	7990.0	165.8	126.4	80.0	54.5	45.2	41.7	33.6	30.1	30.1
65°	13117.6	7268.9	115.9	90.4	58.0	40.6	33.6	33.6	24.3	19.7	18.5
67.5°	11624.4	6140.9	88.1	67.2	41.7	30.1	25.5	29.0	15.1	9.3	9.3
69°	10001.4	5089.4	75.4	55.6	34.8	24.3	22.0	26.7	10.4	7.0	5.8
70°	8692.5	4390.3	68.4	48.7	29.0	20.9	19.7	25.5	10.4	5.8	4.6
72.5°	5200.7	2448.5	52.2	34.8	18.5	16.2	16.2	29.0	10.4	5.8	4.6
75°	2101.8	862.5	38.3	24.3	13.9	13.9	19.7	37.1	9.3	4.6	3.5
77.5°	476.5	189.0	22.0	15.1	9.3	13.9	23.2	29.0	5.8	2.3	0.0
80°	115.9	46.4	13.9	9.3	5.8	10.4	17.4	16.2	1.2	0.0	0.0
82.5°	38.3	16.2	5.8	4.6	1.2	3.5	8.1	4.6	0.0	0.0	0.0
85°	16.2	9.3	2.3	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)