

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: P322809

Luminaire Tested: **GAN-SA5C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322809
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-SA5C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 21427 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

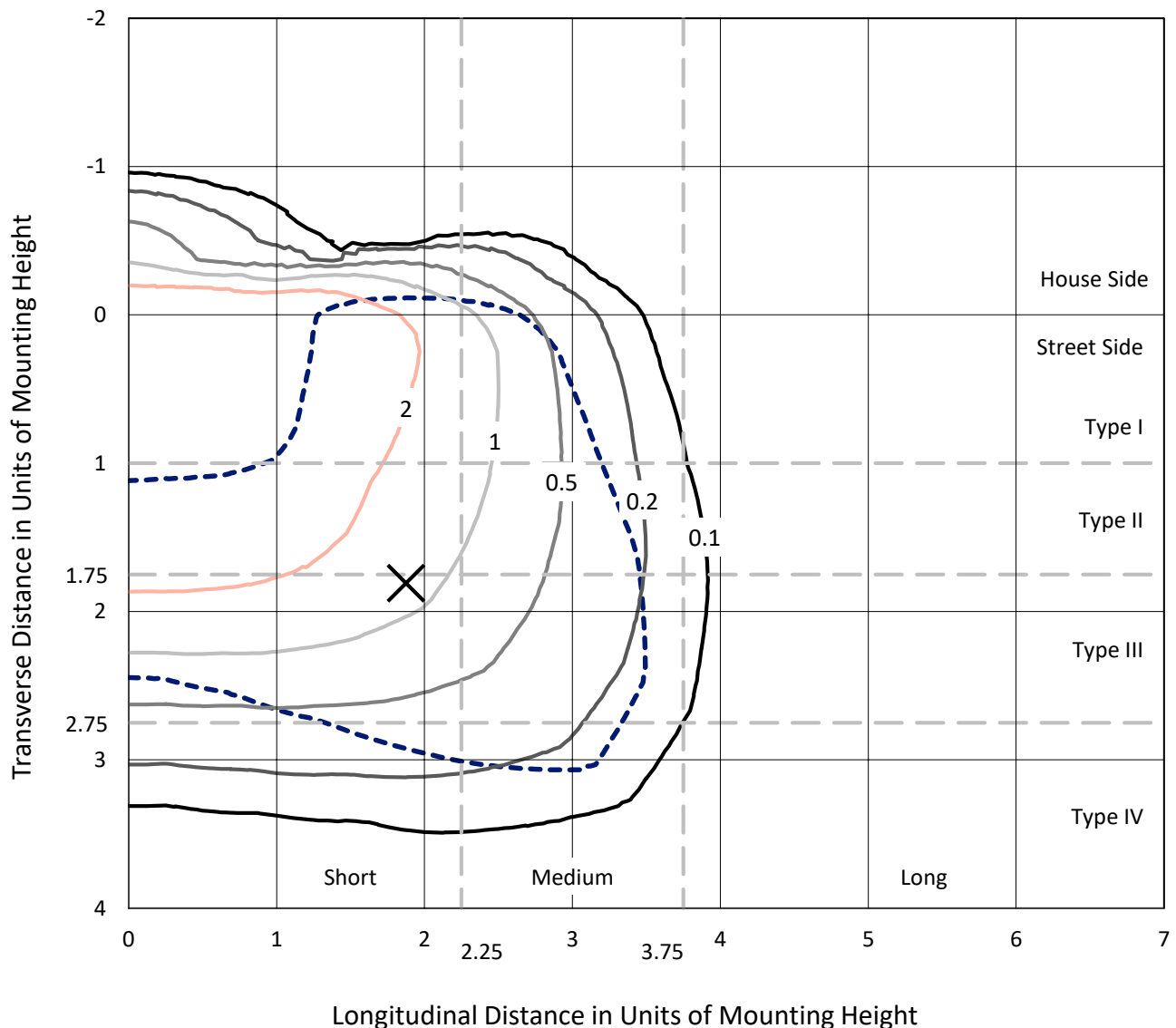
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

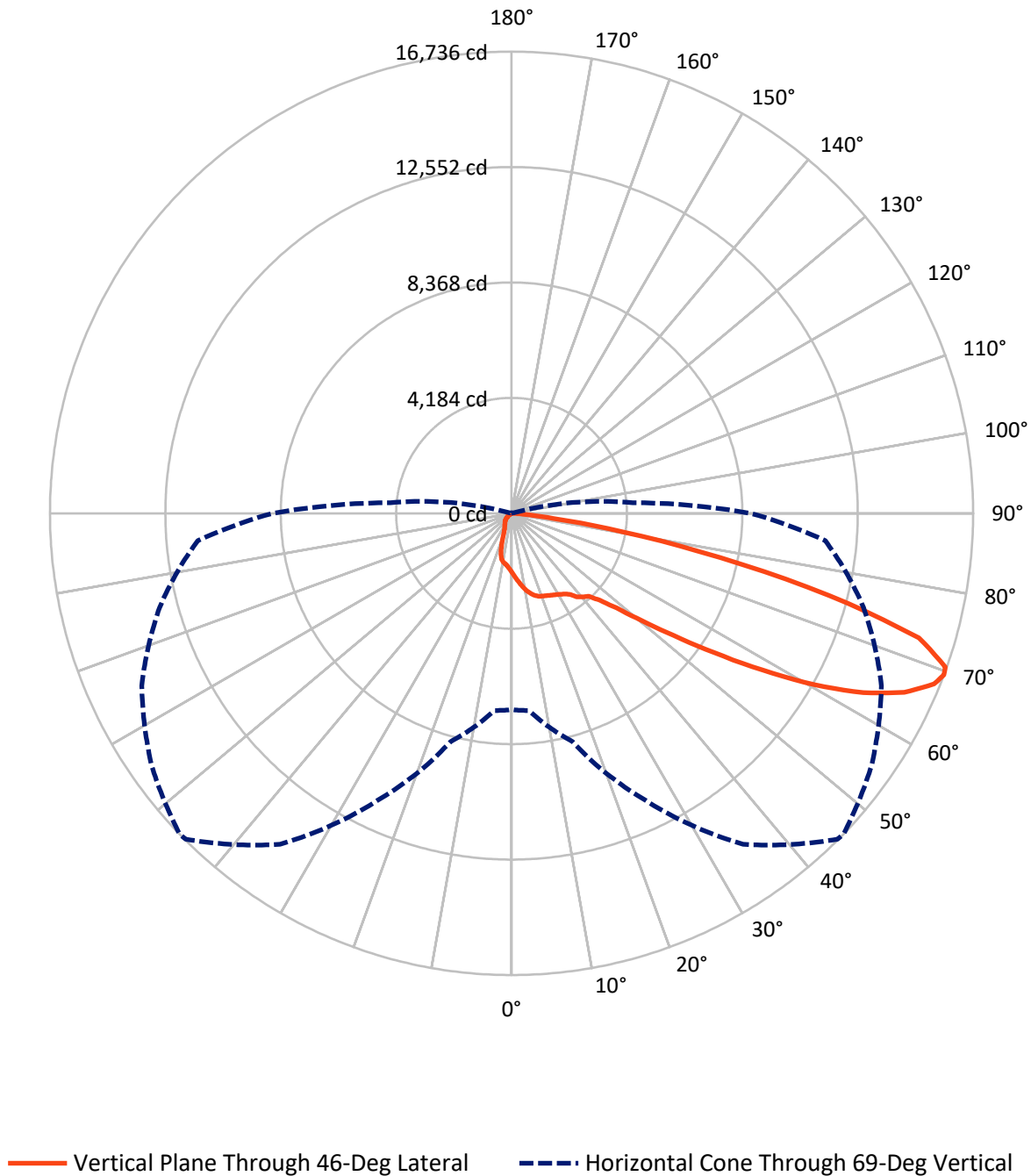
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2199.0	0.0	2199.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19228.0	0.0	19228.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	21427.0	0.0	21427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.0
10°-20°	648.3	3.0
20°-30°	1019.5	4.8
30°-40°	1462.0	6.8
40°-50°	2526.9	11.8
50°-60°	4992.2	23.3
60°-70°	6977.0	32.6
70°-80°	3370.7	15.7
80°-90°	216.6	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°	21427.0	100.0
0°-180°	21427.0	100.0

Coefficient of Utilization



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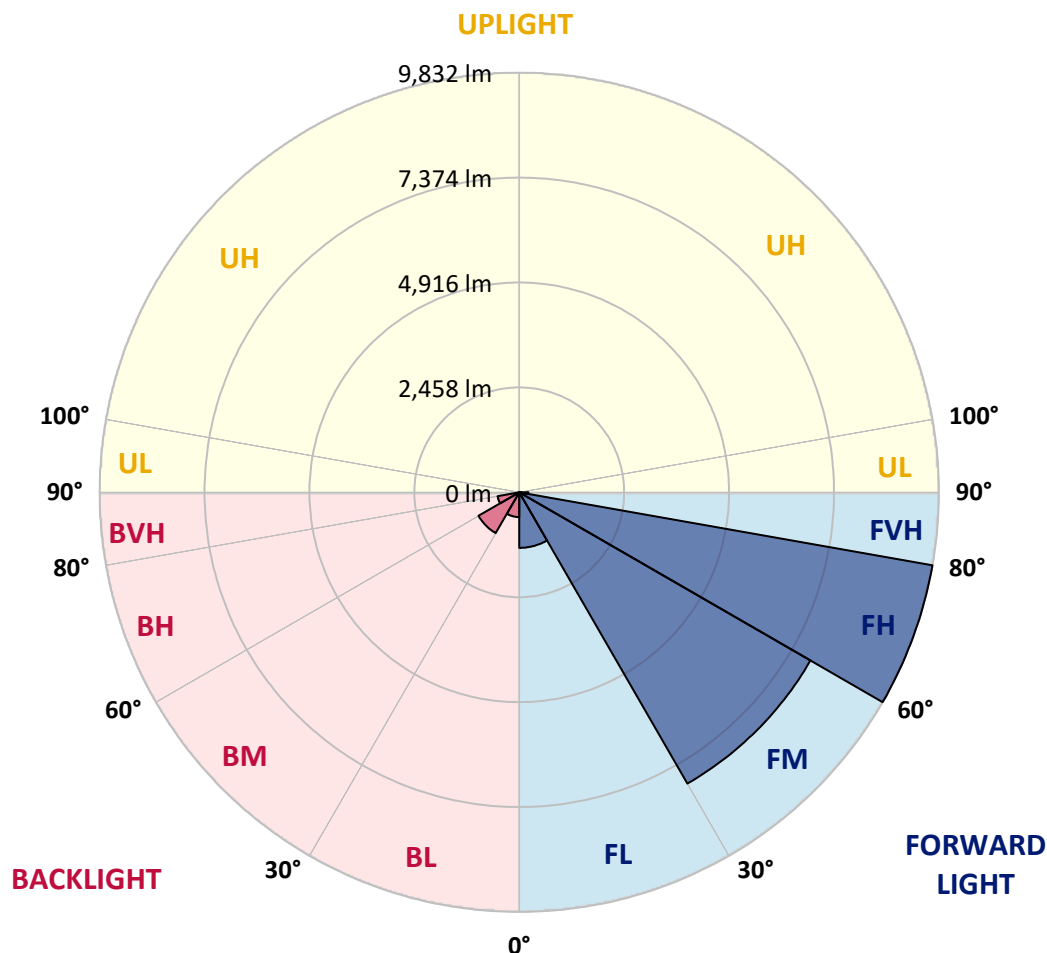
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1301.9	6.1			
FM	(30°-60°)	7879.2	36.8			
FH	(60°-80°)	9832.1	45.9			G4/12000
FVH	(80°-90°)	214.8	1.0			G2/225
BL	(0°-30°)	579.6	2.7	B2/1000		
BM	(30°-60°)	1102.0	5.1	B2/2500		
BH	(60°-80°)	515.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	1.8	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°	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9
2.5°	2385.0	2382.0	2367.9	2361.9	2327.7	2307.6	2299.6	2274.5	2238.3	2202.2	2162.0
5°	2656.3	2655.3	2629.1	2604.0	2539.7	2479.4	2468.4	2410.1	2328.7	2252.4	2176.0
7.5°	2933.5	2920.5	2894.4	2846.1	2752.7	2656.3	2647.2	2564.8	2449.3	2338.8	2229.3
10°	3168.6	3160.6	3126.4	3053.1	2943.6	2834.1	2823.0	2721.6	2591.0	2455.3	2315.7
12.5°	3351.5	3345.4	3300.2	3208.8	3092.3	2978.7	2963.7	2873.3	2733.6	2581.9	2417.2
15°	3463.0	3460.0	3404.7	3307.3	3192.7	3094.3	3081.2	3001.8	2872.3	2713.5	2527.7
17.5°	3489.1	3490.1	3432.8	3334.4	3239.9	3169.6	3159.6	3099.3	2990.8	2833.1	2638.2
20°	3430.8	3442.9	3391.6	3306.3	3248.0	3210.8	3202.8	3166.6	3075.2	2926.5	2726.6
22.5°	3348.4	3354.5	3319.3	3262.1	3237.9	3245.0	3241.0	3220.9	3143.5	3006.9	2814.0
25°	3298.2	3298.2	3277.1	3228.9	3245.0	3288.2	3289.2	3285.2	3223.9	3105.3	2920.5
27.5°	3296.2	3290.2	3266.1	3229.9	3274.1	3340.4	3344.4	3371.6	3333.4	3224.9	3053.1
30°	3376.6	3369.5	3318.3	3271.1	3327.4	3398.7	3408.7	3468.0	3448.9	3354.5	3200.8
32.5°	3564.4	3539.3	3425.8	3348.4	3390.6	3476.0	3489.1	3583.5	3613.7	3514.2	3343.4
35°	3821.6	3742.3	3578.5	3495.1	3499.1	3588.6	3600.6	3739.3	3828.7	3660.9	3453.9
37.5°	4176.3	4137.1	3870.9	3647.8	3665.9	3801.5	3836.7	3987.4	3962.3	3741.3	3579.5
40°	4953.9	4892.6	4609.3	4075.8	3825.7	3974.3	3985.4	4065.8	4067.8	3923.1	3840.7
42.5°	6012.7	5987.6	5689.2	4852.4	4140.1	4089.9	4110.0	4245.6	4397.3	4306.9	4302.9
45°	7185.2	7172.1	6855.6	5883.1	4776.0	4468.6	4493.7	4675.6	4965.9	4986.0	5113.6
47.5°	8128.5	8122.5	7940.6	7033.5	5749.5	5110.6	5118.6	5311.5	5821.9	6074.0	6278.0
50°	8988.5	9017.6	8873.9	8278.2	7075.6	6116.2	6097.1	6225.7	7045.5	7458.4	7711.6
52.5°	10184.0	10225.2	9822.3	9439.6	8467.1	7364.0	7348.9	7483.5	8516.3	8825.7	8870.9
55°	11239.9	11169.5	10851.1	10740.6	10163.9	8905.1	8901.1	9019.6	9938.9	10070.5	10153.8
57.5°	11706.0	11678.9	11832.6	12085.8	11941.1	10726.5	10717.4	10627.0	11211.7	11225.8	11482.0
60°	12000.4	12033.5	12504.7	13285.3	13646.0	12686.5	12628.3	12076.7	12427.3	12396.2	12670.5
62.5°	11779.3	11844.6	12692.6	13993.6	14921.8	14397.4	14315.0	13404.8	13466.1	13358.6	13613.8
65°	10605.9	10707.4	12096.8	13859.9	15554.8	15734.6	15651.2	14577.3	14290.9	14114.1	13972.5
67.5°	8611.7	8672.0	10122.7	12697.6	15269.4	16532.3	16515.2	15605.0	14913.8	13986.5	12887.5
69°	7116.8	7176.1	8572.6	11473.9	14641.6	16703.1	16736.2	15934.5	14795.3	13211.0	11418.7
70°	6027.8	6091.1	7392.1	10425.1	13913.2	16623.7	16683.0	15903.4	14455.7	12312.8	10129.7
72.5°	3161.6	3215.8	4551.0	7182.1	11342.3	15264.4	15444.3	14559.2	12253.5	8942.3	5989.6
75°	993.6	1024.7	1777.2	3754.3	7765.8	11868.8	11909.9	11420.7	8701.1	4918.7	2494.5
77.5°	378.7	369.7	591.7	1383.4	3926.1	7473.5	7725.6	7136.9	4566.1	1739.0	575.7
80°	203.9	204.9	307.4	572.6	1679.7	3840.7	4053.7	3459.0	1622.5	542.5	132.6
82.5°	88.4	92.4	172.8	303.4	771.6	1416.5	1523.0	1267.8	619.9	364.7	49.2
85°	19.1	21.1	83.4	164.8	314.5	397.8	416.9	410.9	394.8	283.3	19.1
87.5°	0.0	0.0	37.2	59.3	79.4	90.4	79.4	103.5	218.0	190.9	10.0
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°	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9	2146.9
2.5°	2148.9	2130.8	2099.7	2065.5	2041.4	2016.3	1996.2	1987.2	1977.1	1970.1	1979.1
5°	2144.9	2109.7	2049.5	1991.2	1949.0	1914.8	1886.7	1875.7	1864.6	1856.6	1855.6
7.5°	2180.1	2130.8	2038.4	1953.0	1887.7	1841.5	1803.3	1787.2	1774.2	1768.2	1763.1
10°	2247.4	2184.1	2060.5	1949.0	1864.6	1786.2	1703.9	1640.6	1599.4	1580.3	1573.3
12.5°	2334.8	2255.4	2102.7	1970.1	1847.5	1696.8	1522.0	1371.3	1273.9	1241.7	1222.6
15°	2437.2	2338.8	2158.0	1997.2	1785.2	1510.0	1213.6	1016.7	926.3	908.2	888.1
17.5°	2535.7	2427.2	2224.3	2002.2	1648.6	1206.6	889.1	755.5	720.3	732.4	735.4
20°	2622.1	2514.6	2289.6	1958.0	1400.5	905.2	688.2	655.0	668.1	691.2	695.2
22.5°	2709.5	2599.0	2349.8	1841.5	1083.0	687.2	619.9	627.9	641.0	664.1	668.1
25°	2816.0	2701.5	2406.1	1627.5	812.7	584.7	588.7	600.8	613.8	634.9	636.9
27.5°	2938.6	2831.1	2443.3	1349.2	602.8	537.5	550.5	568.6	581.7	601.8	605.8
30°	3101.3	3001.8	2455.3	1060.9	505.3	495.3	501.3	523.4	542.5	560.6	563.6
32.5°	3254.0	3170.6	2415.1	800.7	468.2	456.1	456.1	469.2	491.3	508.3	512.4
35°	3394.7	3340.4	2286.5	585.7	440.0	419.9	409.9	409.9	424.0	438.0	442.0
37.5°	3580.5	3578.5	2078.6	467.2	412.9	389.8	368.7	352.6	347.6	350.6	352.6
40°	3899.0	3902.0	1807.3	418.9	389.8	358.7	326.5	297.4	270.2	261.2	260.2
42.5°	4396.3	4351.1	1523.0	395.8	369.7	326.5	278.3	239.1	196.9	183.8	182.8
45°	5185.9	4917.7	1221.6	374.7	348.6	290.3	230.1	176.8	142.7	132.6	132.6
47.5°	6336.2	5662.1	946.4	351.6	320.5	249.1	173.8	127.6	104.5	99.5	100.5
50°	7525.7	6391.5	725.3	322.5	286.3	206.0	128.6	92.4	79.4	79.4	80.4
52.5°	8580.6	6926.0	565.6	291.3	244.1	161.7	97.4	72.3	66.3	65.3	66.3
55°	9568.1	7270.5	433.0	255.2	193.9	120.6	74.3	59.3	55.3	53.2	52.2
57.5°	10520.5	7441.3	324.5	206.0	140.6	87.4	59.3	50.2	46.2	43.2	42.2
60°	11154.5	7302.7	223.0	151.7	97.4	63.3	49.2	43.2	38.2	35.2	34.2
62.5°	11512.1	6923.9	143.7	109.5	69.3	47.2	39.2	36.2	29.1	26.1	26.1
65°	11367.4	6299.1	100.5	78.4	50.2	35.2	29.1	29.1	21.1	17.1	16.1
67.5°	10073.5	5321.6	76.4	58.3	36.2	26.1	22.1	25.1	13.1	8.0	8.0
69°	8667.0	4410.3	65.3	48.2	30.1	21.1	19.1	23.1	9.0	6.0	5.0
70°	7532.8	3804.6	59.3	42.2	25.1	18.1	17.1	22.1	9.0	5.0	4.0
72.5°	4506.8	2121.8	45.2	30.1	16.1	14.1	14.1	25.1	9.0	5.0	4.0
75°	1821.4	747.4	33.2	21.1	12.1	12.1	17.1	32.1	8.0	4.0	3.0
77.5°	412.9	163.8	19.1	13.1	8.0	12.1	20.1	25.1	5.0	2.0	0.0
80°	100.5	40.2	12.1	8.0	5.0	9.0	15.1	14.1	1.0	0.0	0.0
82.5°	33.2	14.1	5.0	4.0	1.0	3.0	7.0	4.0	0.0	0.0	0.0
85°	14.1	8.0	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.0	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)