

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: P322791

Luminaire Tested: **GAN-SA7A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322791
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-SA7A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 19980 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

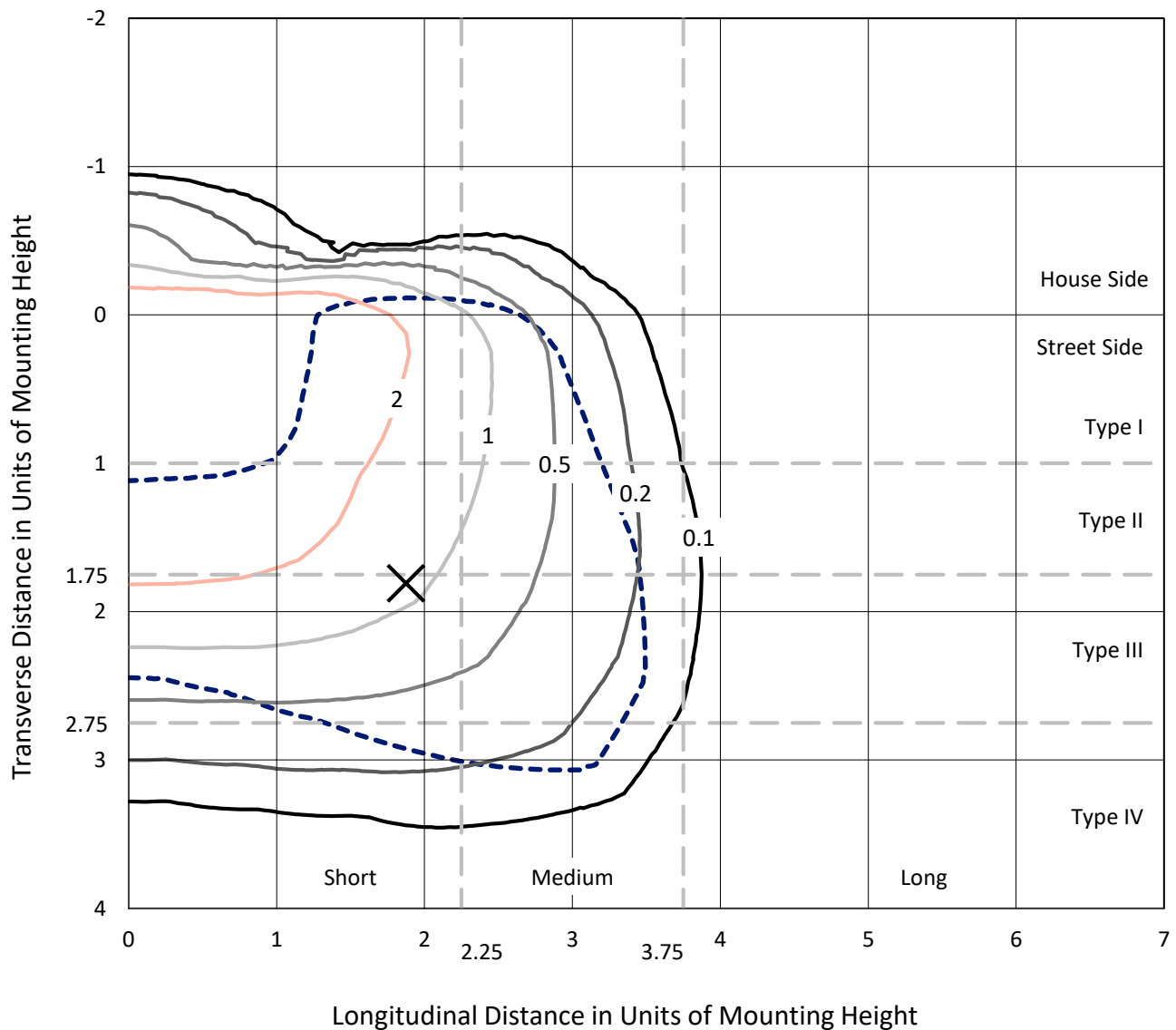
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

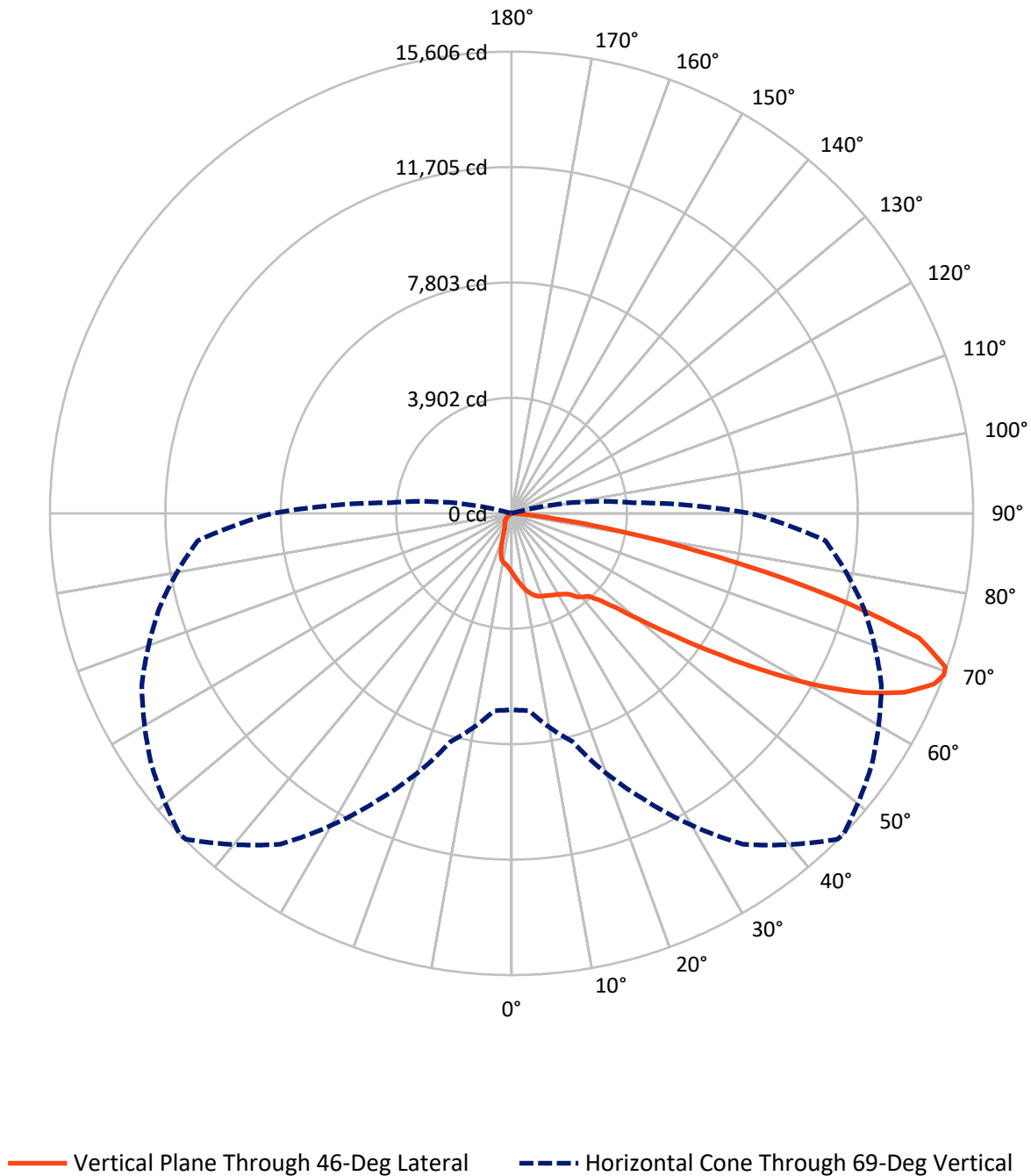
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2050.5	0.0	2050.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17929.5	0.0	17929.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	19980.0	0.0	19980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	1.0
10°-20°	604.5	3.0
20°-30°	950.7	4.8
30°-40°	1363.3	6.8
40°-50°	2356.3	11.8
50°-60°	4655.1	23.3
60°-70°	6505.9	32.6
70°-80°	3143.0	15.7
80°-90°	202.0	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°	19980.0	100.0
0°-180°	19980.0	100.0

Coefficient of Utilization



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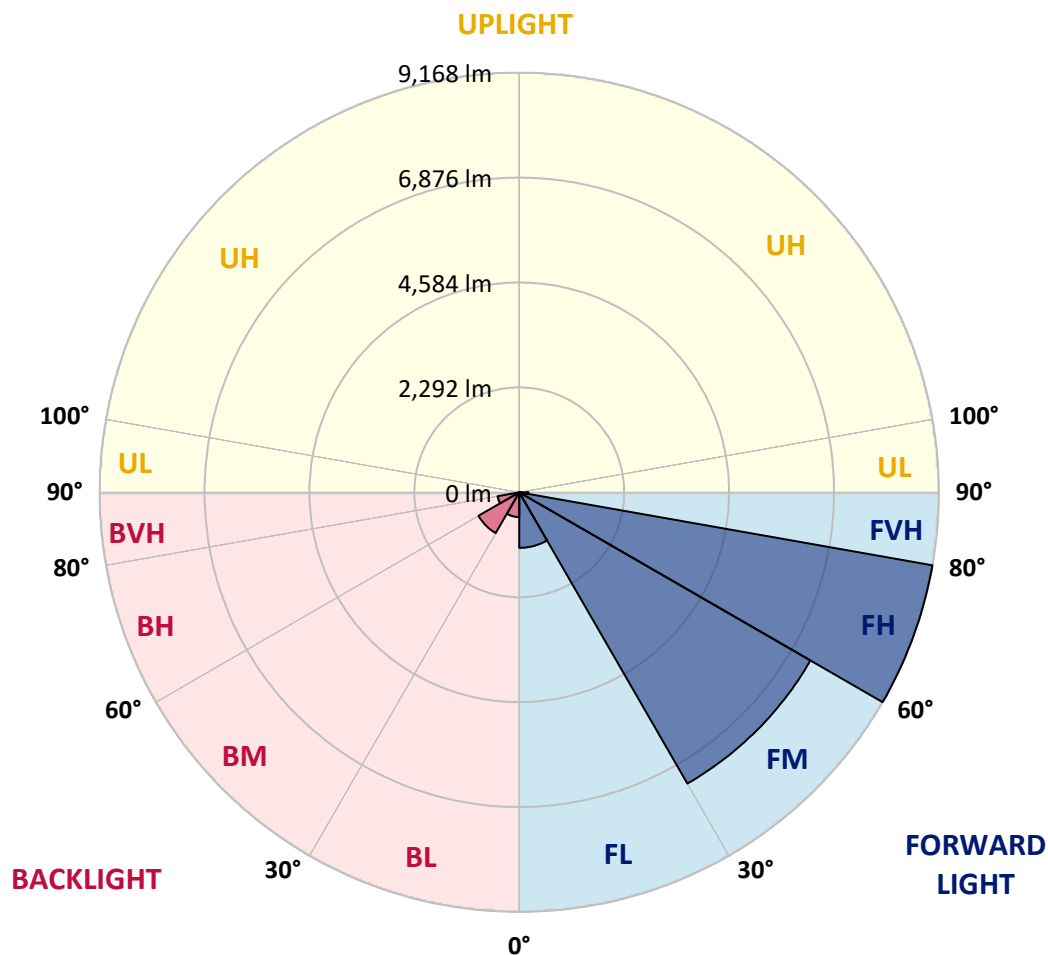
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.0	6.1			
FM	(30°-60°)	7347.1	36.8			
FH	(60°-80°)	9168.1	45.9			G4/12000
FVH	(80°-90°)	200.3	1.0			G2/225
BL	(0°-30°)	540.4	2.7	B2/1000		
BM	(30°-60°)	1027.5	5.1	B2/2500		
BH	(60°-80°)	480.8	2.4	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9
2.5°	2223.9	2221.1	2208.0	2202.4	2170.5	2151.8	2144.3	2120.9	2087.2	2053.4	2016.0
5°	2476.9	2475.9	2451.6	2428.2	2368.2	2312.0	2301.7	2247.4	2171.5	2100.3	2029.1
7.5°	2735.4	2723.3	2698.9	2653.9	2566.8	2476.9	2468.4	2391.6	2283.9	2180.8	2078.7
10°	2954.6	2947.1	2915.3	2846.9	2744.8	2642.7	2632.4	2537.8	2416.0	2289.5	2159.3
12.5°	3125.1	3119.5	3077.4	2992.1	2883.4	2777.6	2763.5	2679.2	2549.0	2407.6	2253.9
15°	3229.1	3226.3	3174.8	3083.9	2977.1	2885.3	2873.1	2799.1	2678.3	2530.3	2357.0
17.5°	3253.5	3254.4	3201.0	3109.2	3021.1	2955.6	2946.2	2890.0	2788.8	2641.7	2460.0
20°	3199.1	3210.4	3162.6	3083.0	3028.6	2994.0	2986.5	2952.8	2867.5	2728.9	2542.4
22.5°	3122.3	3127.9	3095.2	3041.8	3019.3	3025.8	3022.1	3003.4	2931.2	2803.8	2624.0
25°	3075.5	3075.5	3055.8	3010.8	3025.8	3066.1	3067.1	3063.3	3006.2	2895.6	2723.3
27.5°	3073.6	3068.0	3045.5	3011.8	3053.0	3114.8	3118.6	3143.9	3108.3	3007.1	2846.9
30°	3148.6	3142.0	3094.2	3050.2	3102.7	3169.2	3178.5	3233.8	3216.0	3127.9	2984.6
32.5°	3323.7	3300.3	3194.5	3122.3	3161.7	3241.3	3253.5	3341.5	3369.6	3276.9	3117.6
35°	3563.6	3489.5	3336.8	3259.1	3262.8	3346.2	3357.5	3486.7	3570.1	3413.7	3220.7
37.5°	3894.2	3857.7	3609.5	3401.5	3418.3	3544.8	3577.6	3718.1	3694.7	3488.6	3337.8
40°	4619.3	4562.2	4298.0	3800.6	3567.3	3705.9	3716.2	3791.2	3793.1	3658.2	3581.4
42.5°	5606.7	5583.3	5305.0	4524.7	3860.5	3813.7	3832.4	3958.9	4100.3	4016.0	4012.3
45°	6699.9	6687.7	6392.7	5485.8	4453.5	4166.8	4190.3	4359.8	4630.6	4649.3	4768.3
47.5°	7579.6	7574.0	7404.4	6558.5	5361.3	4765.5	4772.9	4952.8	5428.7	5663.8	5854.0
50°	8381.5	8408.6	8274.7	7719.2	6597.8	5703.2	5685.4	5805.3	6569.7	6954.7	7190.8
52.5°	9496.2	9534.7	9159.0	8802.1	7895.3	6866.7	6852.6	6978.2	7941.2	8229.7	8271.9
55°	10480.8	10415.2	10118.3	10015.2	9477.5	8303.7	8300.0	8410.5	9267.7	9390.4	9468.1
57.5°	10915.5	10890.2	11033.5	11269.6	11134.7	10002.1	9993.7	9909.4	10454.6	10467.7	10706.6
60°	11190.0	11220.9	11660.2	12388.1	12724.4	11829.8	11775.5	11261.2	11588.1	11559.1	11814.8
62.5°	10983.9	11044.8	11835.4	13048.6	13914.1	13425.1	13348.3	12499.6	12556.7	12456.5	12694.4
65°	9889.7	9984.3	11279.9	12924.0	14504.3	14672.0	14594.3	13592.8	13325.8	13161.0	13028.9
67.5°	8030.2	8086.4	9439.1	11840.1	14238.3	15415.8	15399.9	14551.2	13906.7	13042.0	12017.1
69°	6636.2	6691.5	7993.6	10699.1	13652.8	15575.1	15606.0	14858.4	13796.1	12318.8	10647.6
70°	5620.7	5679.8	6892.9	9721.1	12973.6	15501.1	15556.3	14829.4	13479.5	11481.3	9445.7
72.5°	2948.1	2998.7	4243.7	6697.1	10576.4	14233.6	14401.3	13576.0	11426.0	8338.4	5585.1
75°	926.5	955.5	1657.2	3500.8	7241.4	11067.2	11105.7	10649.4	8113.5	4586.5	2326.1
77.5°	353.2	344.7	551.8	1290.0	3661.0	6968.8	7203.9	6655.0	4257.7	1621.6	536.8
80°	190.2	191.1	286.7	534.0	1566.3	3581.4	3779.9	3225.4	1512.9	505.9	123.7
82.5°	82.4	86.2	161.1	282.9	719.5	1320.9	1420.2	1182.2	578.0	340.1	45.9
85°	17.8	19.7	77.8	153.6	293.2	371.0	388.8	383.1	368.2	264.2	17.8
87.5°	0.0	0.0	34.7	55.3	74.0	84.3	74.0	96.5	203.3	178.0	9.4
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°	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9	2001.9
2.5°	2003.8	1986.9	1957.9	1926.0	1903.6	1880.1	1861.4	1853.0	1843.6	1837.0	1845.5
5°	2000.0	1967.3	1911.1	1856.7	1817.4	1785.5	1759.3	1749.0	1738.7	1731.2	1730.3
7.5°	2032.8	1986.9	1900.7	1821.1	1760.2	1717.1	1681.5	1666.6	1654.4	1648.8	1644.1
10°	2095.6	2036.6	1921.4	1817.4	1738.7	1665.6	1588.8	1529.8	1491.4	1473.6	1467.0
12.5°	2177.1	2103.1	1960.7	1837.0	1722.8	1582.2	1419.2	1278.7	1187.9	1157.9	1140.1
15°	2272.7	2180.8	2012.2	1862.3	1664.7	1408.0	1131.6	948.0	863.7	846.9	828.1
17.5°	2364.5	2263.3	2074.1	1867.0	1537.3	1125.1	829.1	704.5	671.7	682.9	685.7
20°	2445.0	2344.8	2134.9	1825.8	1305.9	844.0	641.7	610.8	623.0	644.5	648.3
22.5°	2526.5	2423.5	2191.2	1717.1	1009.9	640.8	578.0	585.5	597.7	619.2	623.0
25°	2625.8	2519.0	2243.6	1517.6	757.9	545.2	549.0	560.2	572.4	592.1	593.9
27.5°	2740.1	2639.9	2278.3	1258.1	562.1	501.2	513.4	530.2	542.4	561.1	564.9
30°	2891.9	2799.1	2289.5	989.3	471.2	461.8	467.5	488.1	505.9	522.7	525.5
32.5°	3034.3	2956.5	2252.0	746.6	436.5	425.3	425.3	437.5	458.1	474.0	477.8
35°	3165.4	3114.8	2132.1	546.1	410.3	391.6	382.2	382.2	395.3	408.4	412.2
37.5°	3338.7	3336.8	1938.2	435.6	385.0	363.5	343.8	328.8	324.1	326.9	328.8
40°	3635.7	3638.5	1685.3	390.6	363.5	334.4	304.5	277.3	252.0	243.6	242.6
42.5°	4099.4	4057.2	1420.2	369.1	344.7	304.5	259.5	223.0	183.6	171.4	170.5
45°	4835.7	4585.6	1139.1	349.4	325.1	270.7	214.5	164.9	133.0	123.7	123.7
47.5°	5908.3	5279.8	882.5	327.9	298.8	232.3	162.1	119.0	97.4	92.7	93.7
50°	7017.5	5959.9	676.4	300.7	267.0	192.0	119.9	86.2	74.0	74.0	74.9
52.5°	8001.1	6458.2	527.4	271.7	227.6	150.8	90.9	67.4	61.8	60.9	61.8
55°	8922.0	6779.6	403.8	237.9	180.8	112.4	69.3	55.3	51.5	49.6	48.7
57.5°	9810.1	6938.8	302.6	192.0	131.2	81.5	55.3	46.8	43.1	40.3	39.3
60°	10401.2	6809.5	208.0	141.5	90.9	59.0	45.9	40.3	35.6	32.8	31.9
62.5°	10734.7	6456.4	134.0	102.1	64.6	44.0	36.5	33.7	27.2	24.4	24.4
65°	10599.8	5873.7	93.7	73.1	46.8	32.8	27.2	27.2	19.7	15.9	15.0
67.5°	9393.2	4962.2	71.2	54.3	33.7	24.4	20.6	23.4	12.2	7.5	7.5
69°	8081.7	4112.5	60.9	45.0	28.1	19.7	17.8	21.5	8.4	5.6	4.7
70°	7024.1	3547.6	55.3	39.3	23.4	16.9	15.9	20.6	8.4	4.7	3.7
72.5°	4202.4	1978.5	42.2	28.1	15.0	13.1	13.1	23.4	8.4	4.7	3.7
75°	1698.4	697.0	30.9	19.7	11.2	11.2	15.9	30.0	7.5	3.7	2.8
77.5°	385.0	152.7	17.8	12.2	7.5	11.2	18.7	23.4	4.7	1.9	0.0
80°	93.7	37.5	11.2	7.5	4.7	8.4	14.1	13.1	0.9	0.0	0.0
82.5°	30.9	13.1	4.7	3.7	0.9	2.8	6.6	3.7	0.0	0.0	0.0
85°	13.1	7.5	1.9	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.4	2.8	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)