

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: P317581

Luminaire Tested: **GAN-SA7D-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42031 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 448
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

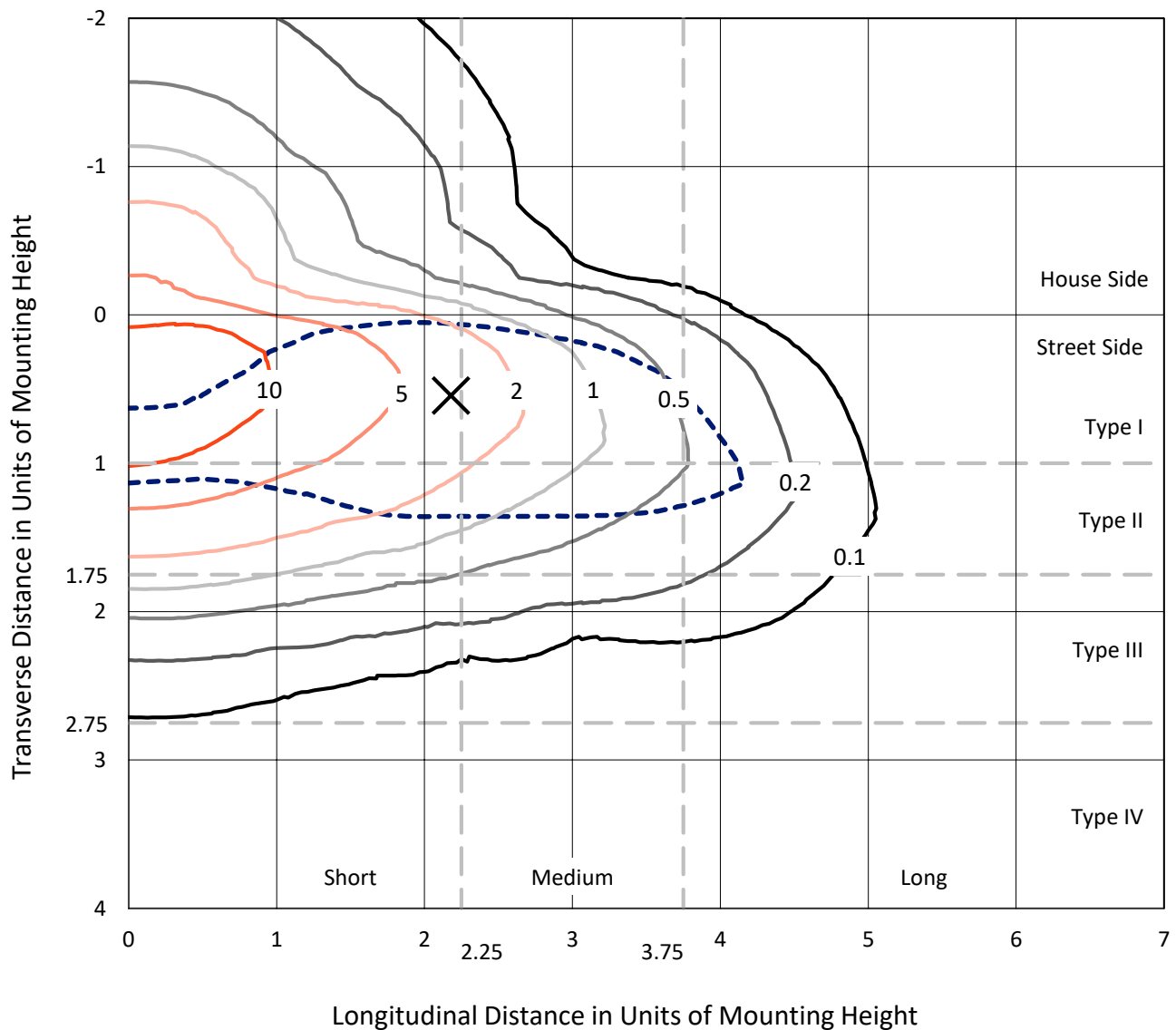


REPORT NUMBER: P317581

CATALOG NUMBER: GAN-SA7D-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

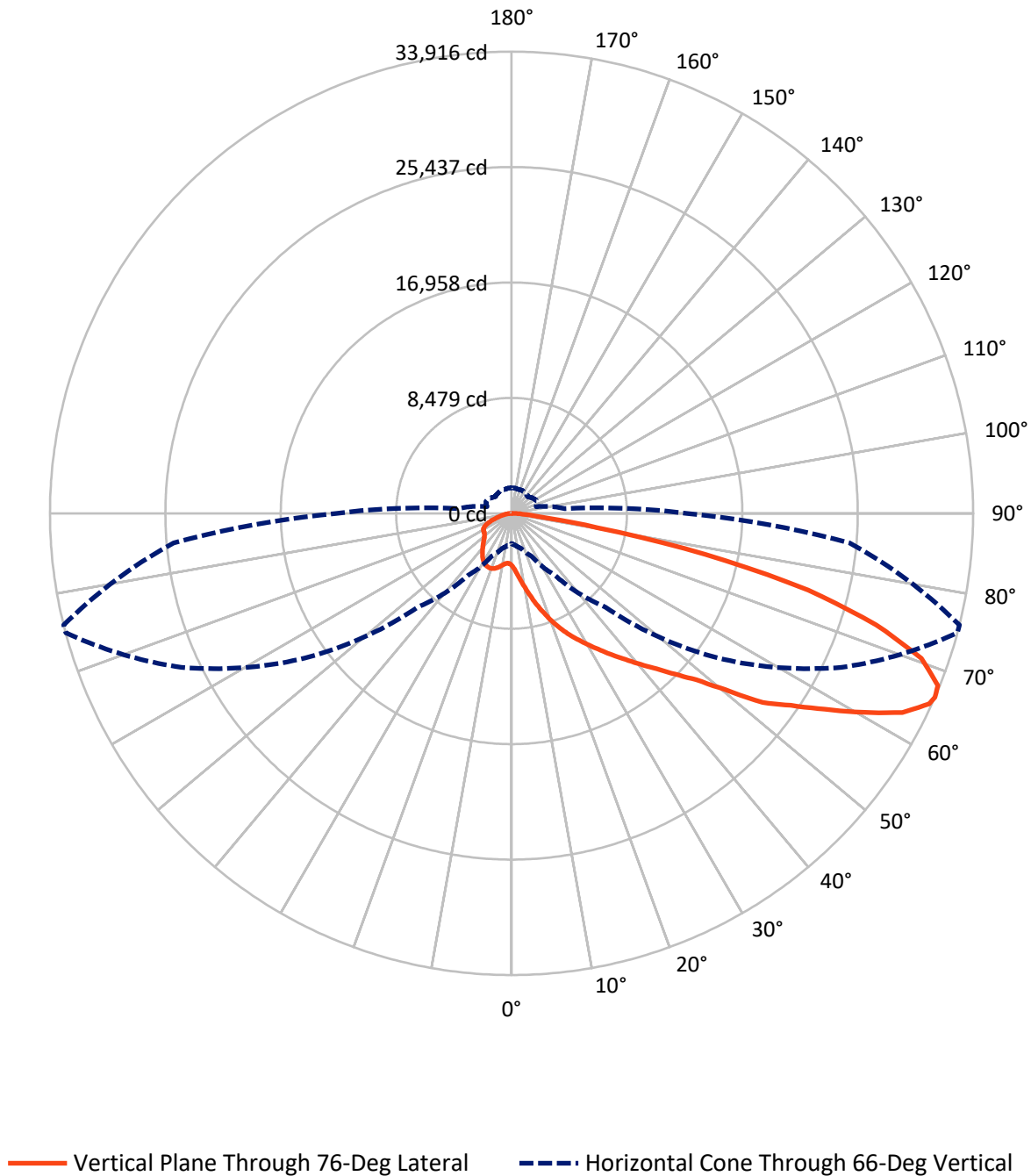
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

REPORT NUMBER: P317581
CATALOG NUMBER: GAN-SA7D-827-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7072.4	0.0	7072.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	34958.6	0.0	34958.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	42031.0	0.0	42031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	1.1
10°-20°	1833.0	4.4
20°-30°	3561.9	8.5
30°-40°	5813.8	13.8
40°-50°	7943.0	18.9
50°-60°	9252.0	22.0
60°-70°	8294.6	19.7
70°-80°	4191.7	10.0
80°-90°	676.9	1.6
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°	42031.0	100.0
0°-180°	42031.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317581

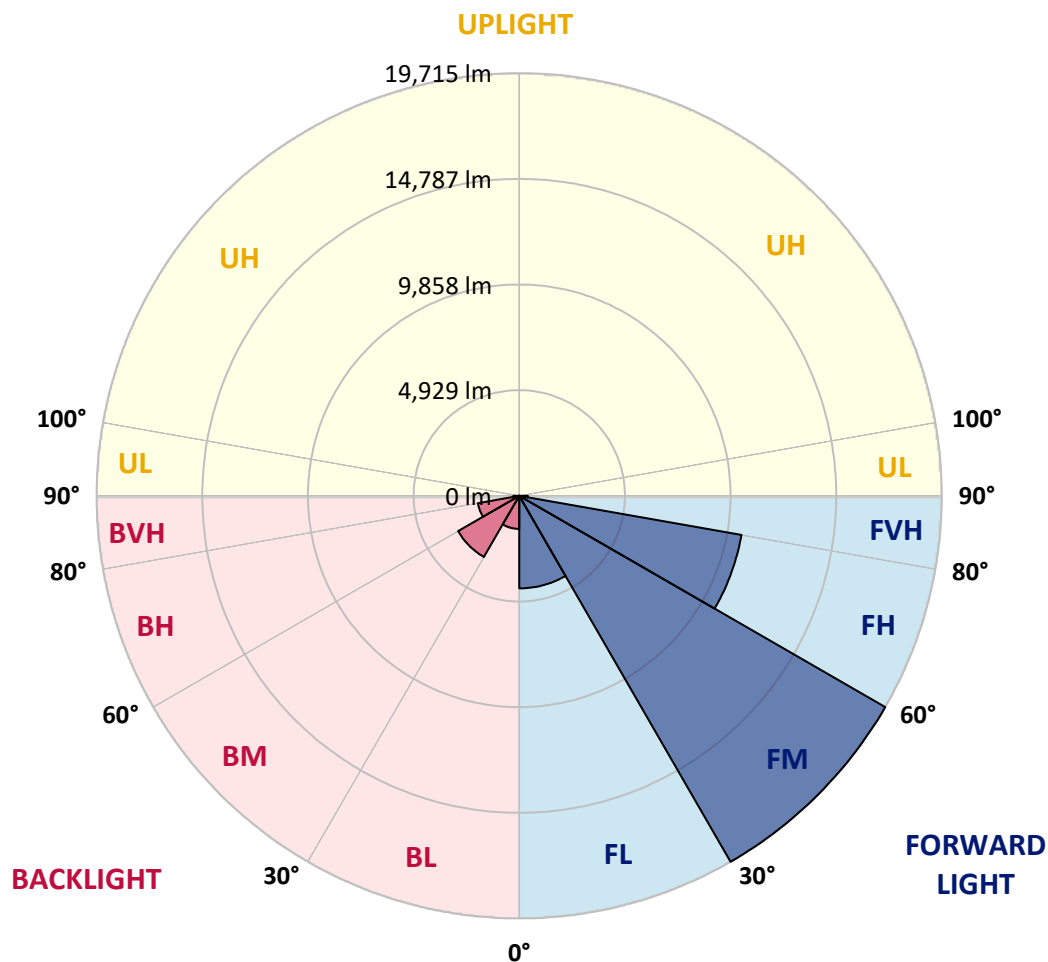
CATALOG NUMBER: GAN-SA7D-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4316.5	10.3			
FM	(30°-60°)	19715.5	46.9			
FH	(60°-80°)	10527.0	25.0			G4/12000
FVH	(80°-90°)	399.7	1.0			G3/500
BL	(0°-30°)	1542.5	3.7	B3/2500		
BM	(30°-60°)	3293.3	7.8	B3/5000		
BH	(60°-80°)	1959.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	277.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P317581

CATALOG NUMBER: GAN-SA7D-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4
2.5°	5095.5	5018.4	5011.3	4898.6	4872.9	4657.4	4499.0	4333.5	4145.2	4108.1	3959.7
5°	6545.2	6538.1	6439.6	6255.6	6111.4	5743.3	5379.4	4994.2	4571.8	4503.3	4169.4
7.5°	7849.4	7838.0	7762.4	7564.0	7355.7	6903.4	6384.0	5793.2	5108.3	5007.0	4453.4
10°	8839.7	8835.4	8809.7	8664.2	8487.2	8053.5	7479.8	6673.6	5731.9	5593.5	4808.7
12.5°	9604.5	9613.1	9630.2	9578.8	9494.6	9125.1	8537.2	7606.8	6396.8	6259.8	5203.9
15°	10122.5	10148.2	10236.6	10309.4	10353.6	10126.8	9557.4	8561.4	7141.7	6977.6	5642.0
17.5°	10383.6	10412.1	10564.8	10784.6	10987.2	10964.3	10512.0	9471.8	7856.5	7698.2	6112.9
20°	10609.0	10630.5	10801.7	11065.7	11423.8	11582.2	11328.2	10347.9	8639.9	8451.6	6612.3
22.5°	11262.6	11289.7	11341.1	11490.9	11807.7	12098.7	11976.0	11177.0	9357.7	9182.1	7086.0
25°	12524.0	12556.8	12445.5	12318.5	12378.4	12581.0	12603.9	11933.2	10085.4	9887.0	7595.4
27.5°	14043.6	14090.7	13900.9	13574.2	13288.8	13210.3	13183.2	12552.5	10780.3	10550.5	8099.1
30°	15531.9	15613.2	15366.4	14942.6	14418.9	14050.7	13778.2	13158.9	11465.2	11245.4	8574.3
32.5°	16985.9	16953.1	16594.9	16181.1	15567.5	15106.7	14447.4	13809.6	12235.7	11983.2	9046.6
35°	17981.9	17993.3	17660.8	17170.0	16584.9	16231.1	15343.5	14511.6	13021.9	12789.4	9583.1
37.5°	18829.5	18776.7	18400.0	17941.9	17438.2	17287.0	16392.3	15285.0	13873.8	13619.8	10153.9
40°	19112.0	19050.6	18803.8	18474.2	18070.3	18057.5	17549.5	16161.1	14837.0	14585.8	10797.4
42.5°	18940.8	18862.3	18761.0	18671.1	18546.9	18604.0	18636.8	17188.5	15895.7	15614.6	11542.2
45°	18308.6	18190.2	18261.5	18457.0	18726.7	19049.2	19618.5	18325.8	17081.5	16846.1	12416.9
47.5°	17336.9	17229.9	17452.5	17870.6	18604.0	19420.2	20547.5	19581.4	18497.0	18263.0	13662.6
50°	15969.9	16001.3	16319.5	17080.1	18188.8	19591.4	21691.8	21243.8	20554.6	20336.3	15362.1
52.5°	13726.8	13732.5	14628.6	15877.2	17452.5	19503.0	22326.8	23368.4	23364.2	23100.2	16980.2
55°	11643.6	11770.6	12479.7	14139.2	16259.6	19149.1	22770.6	24401.5	25209.2	24899.5	18488.4
57.5°	9608.8	9683.0	10355.1	12021.7	14557.3	18205.9	23225.8	25641.5	27335.2	27139.8	20363.4
60°	7294.3	7408.5	8103.4	9643.0	12379.8	16532.1	23268.6	26935.7	29876.6	29679.7	22456.7
62.5°	4734.5	4931.4	5582.1	7024.7	9745.8	14124.9	22275.4	27781.9	32285.2	32215.3	24314.5
65°	2721.1	2869.5	3321.8	4434.8	6723.6	11102.8	19913.9	27456.5	33767.7	33727.8	25009.4
66°	2223.1	2315.9	2662.6	3466.0	5547.8	9750.1	18541.2	26770.2	33914.7	33916.1	24929.5
67.5°	1777.9	1819.3	1974.8	2481.4	4093.8	7728.1	16088.4	25256.2	33732.1	33782.0	24414.4
70°	1471.1	1492.5	1541.1	1663.8	2234.5	4660.3	11419.5	21322.3	31898.5	31937.0	22403.9
72.5°	1319.9	1332.7	1351.3	1368.4	1576.7	2604.1	6974.7	17057.2	27967.4	28017.3	19340.3
75°	1195.7	1202.9	1200.0	1201.5	1322.7	1659.5	3604.4	12735.1	22613.6	22513.7	14815.6
77.5°	1050.2	1057.3	1043.1	1045.9	1170.1	1275.7	1793.6	8915.3	15260.8	14555.9	8347.4
80°	887.5	893.2	887.5	897.5	1018.8	963.2	1043.1	5015.6	6747.8	6382.6	2968.0
82.5°	670.6	694.9	712.0	752.0	839.0	684.9	697.8	1953.4	2054.7	1956.3	910.4
85°	293.9	358.2	536.5	575.0	630.7	410.9	458.0	796.2	836.2	810.5	331.0
87.5°	77.1	84.2	265.4	333.9	349.6	185.5	238.3	362.4	382.4	362.4	109.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317581

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4	3838.4
2.5°	3881.2	3811.3	3685.7	3574.4	3490.2	3433.1	3376.1	3347.5	3330.4	3313.3	3316.1
5°	4005.3	3864.1	3648.6	3495.9	3410.3	3356.1	3327.5	3316.1	3309.0	3291.9	3291.9
7.5°	4192.3	3992.5	3695.7	3538.7	3471.7	3430.3	3413.2	3407.5	3398.9	3378.9	3381.8
10°	4427.7	4148.0	3794.1	3641.5	3580.1	3534.4	3510.2	3501.6	3485.9	3463.1	3466.0
12.5°	4704.5	4340.6	3924.0	3764.2	3690.0	3628.6	3588.7	3564.4	3537.3	3507.3	3508.8
15°	5007.0	4550.4	4063.8	3874.1	3772.7	3687.1	3622.9	3581.5	3538.7	3501.6	3500.2
17.5°	5313.8	4753.0	4170.8	3934.0	3797.0	3684.3	3597.2	3533.0	3480.2	3434.6	3430.3
20°	5644.8	4935.7	4230.8	3928.3	3751.3	3617.2	3501.6	3421.7	3363.2	3317.6	3310.4
22.5°	5981.6	5106.9	4240.8	3869.8	3650.0	3485.9	3364.6	3276.2	3216.2	3169.2	3152.0
25°	6289.8	5239.6	4199.4	3757.0	3508.8	3331.8	3213.4	3123.5	3075.0	3019.3	3002.2
27.5°	6570.9	5332.3	4116.6	3612.9	3350.4	3176.3	3065.0	2987.9	2935.1	2892.3	2878.1
30°	6823.5	5382.3	3981.1	3441.7	3187.7	3029.3	2935.1	2882.4	2836.7	2782.5	2772.5
32.5°	7063.2	5382.3	3807.0	3254.8	3026.5	2899.5	2843.8	2811.0	2759.6	2706.8	2692.6
35°	7302.9	5349.5	3601.5	3059.3	2878.1	2806.7	2803.9	2765.3	2686.9	2615.5	2597.0
37.5°	7555.5	5282.4	3370.4	2876.6	2756.8	2765.3	2789.6	2704.0	2592.7	2491.4	2464.3
40°	7840.9	5189.7	3130.6	2718.3	2655.5	2746.8	2751.1	2615.5	2398.6	2305.9	2281.6
42.5°	8176.2	5096.9	2908.0	2578.4	2575.6	2691.1	2678.3	2424.3	2294.5	2247.4	2234.5
45°	8617.1	5044.1	2696.9	2445.7	2512.8	2601.3	2554.2	2318.7	2264.5	2237.4	2226.0
47.5°	9312.0	5071.2	2502.8	2340.1	2450.0	2511.4	2323.0	2275.9	2237.4	2204.6	2193.2
50°	10182.4	5055.5	2345.8	2267.4	2378.7	2417.2	2218.8	2220.3	2200.3	2163.2	2146.1
52.5°	10837.4	4932.8	2244.5	2226.0	2315.9	2250.2	2153.2	2166.0	2156.1	2101.8	2083.3
55°	11469.5	4827.2	2193.2	2210.3	2270.2	2041.9	2076.1	2107.5	2097.6	2044.8	2036.2
57.5°	12255.7	4807.2	2161.8	2214.6	2231.7	1937.7	2001.9	2043.3	2036.2	2013.4	2009.1
60°	13218.9	4813.0	2133.2	2221.7	2188.9	1860.7	1932.0	1984.8	1989.1	1984.8	1982.0
62.5°	13748.2	4657.4	2061.9	2201.7	2113.2	1793.6	1859.3	1936.3	1937.7	1946.3	1944.9
65°	13298.8	4192.3	1929.2	2131.8	1986.3	1738.0	1796.5	1880.7	1859.3	1897.8	1897.8
66°	12862.1	3924.0	1863.5	2086.1	1932.0	1716.6	1776.5	1852.1	1825.0	1877.8	1877.8
67.5°	11970.3	3471.7	1745.1	1989.1	1855.0	1686.6	1753.7	1805.0	1767.9	1846.4	1840.7
70°	10340.8	2685.4	1506.8	1769.4	1728.0	1642.4	1722.3	1710.9	1656.6	1776.5	1753.7
72.5°	8718.4	2040.5	1210.0	1481.1	1535.4	1586.7	1678.0	1591.0	1522.5	1606.7	1556.8
75°	6765.0	1533.9	956.0	1151.5	1297.1	1499.7	1625.2	1452.6	1354.1	1345.6	1318.5
77.5°	3657.2	1053.1	757.7	879.0	1030.2	1391.2	1589.6	1304.2	1155.8	1121.5	1100.1
80°	1448.3	684.9	550.8	666.4	720.6	1234.3	1504.0	1131.5	953.2	918.9	886.1
82.5°	597.9	405.2	355.3	446.6	469.5	1055.9	1349.9	927.5	736.3	1018.8	1081.6
85°	256.8	222.6	211.2	231.2	265.4	740.6	1074.5	707.7	794.8	709.2	563.6
87.5°	77.1	94.2	89.9	88.5	97.0	176.9	572.2	393.8	583.6	221.2	165.5
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)