

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: P532379

Luminaire Tested: **GLAN-SA7D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27406.1 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

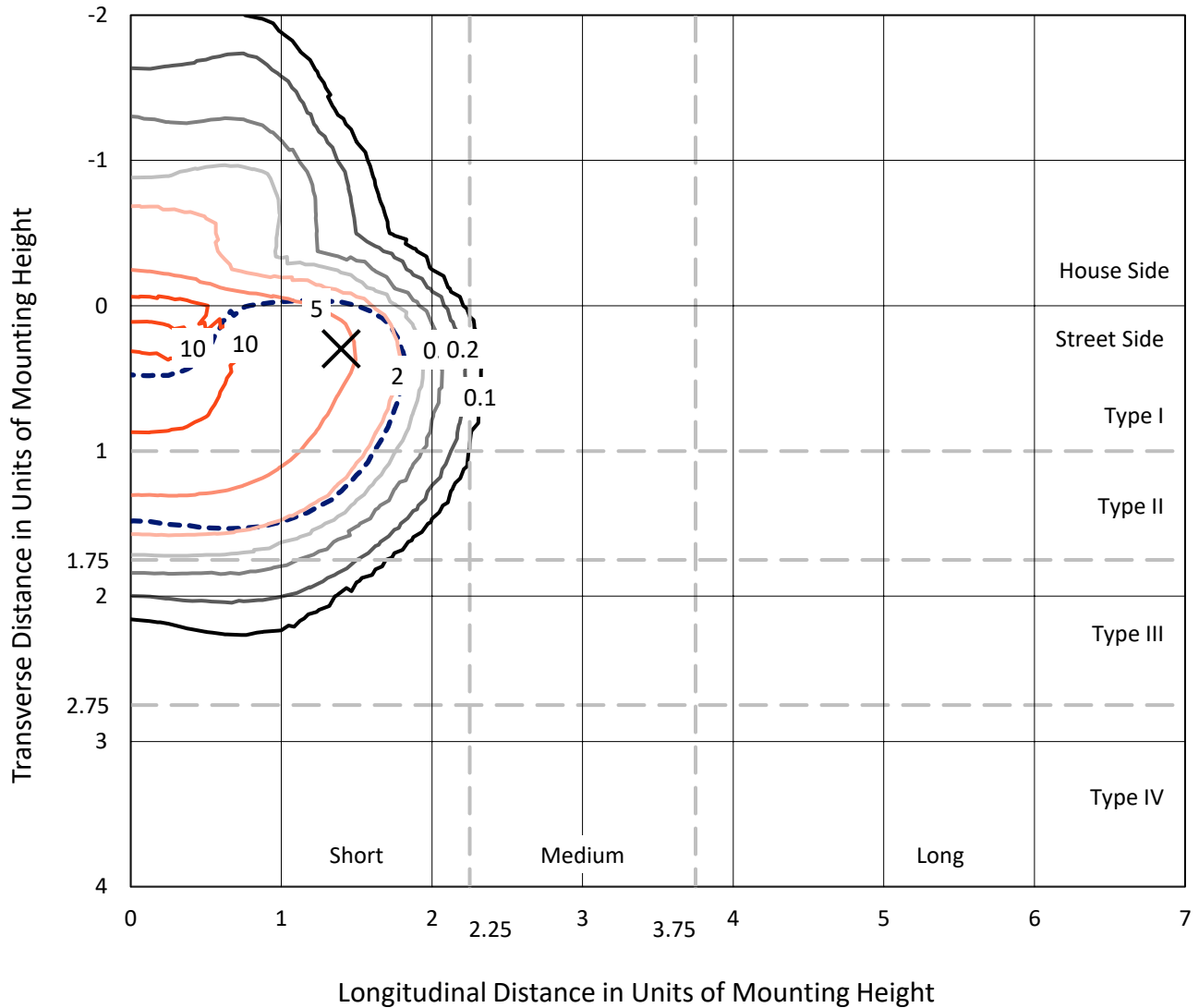
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

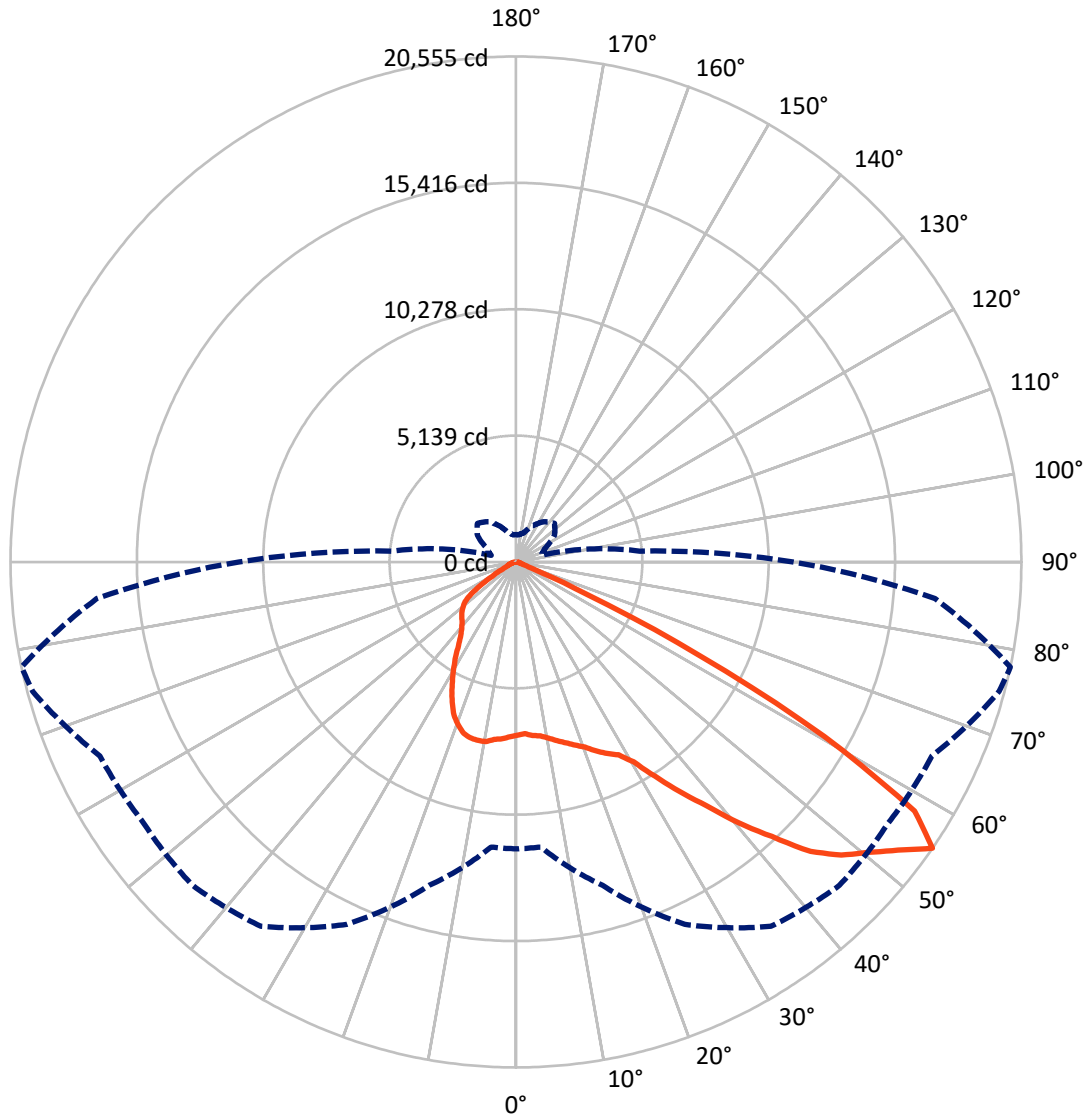
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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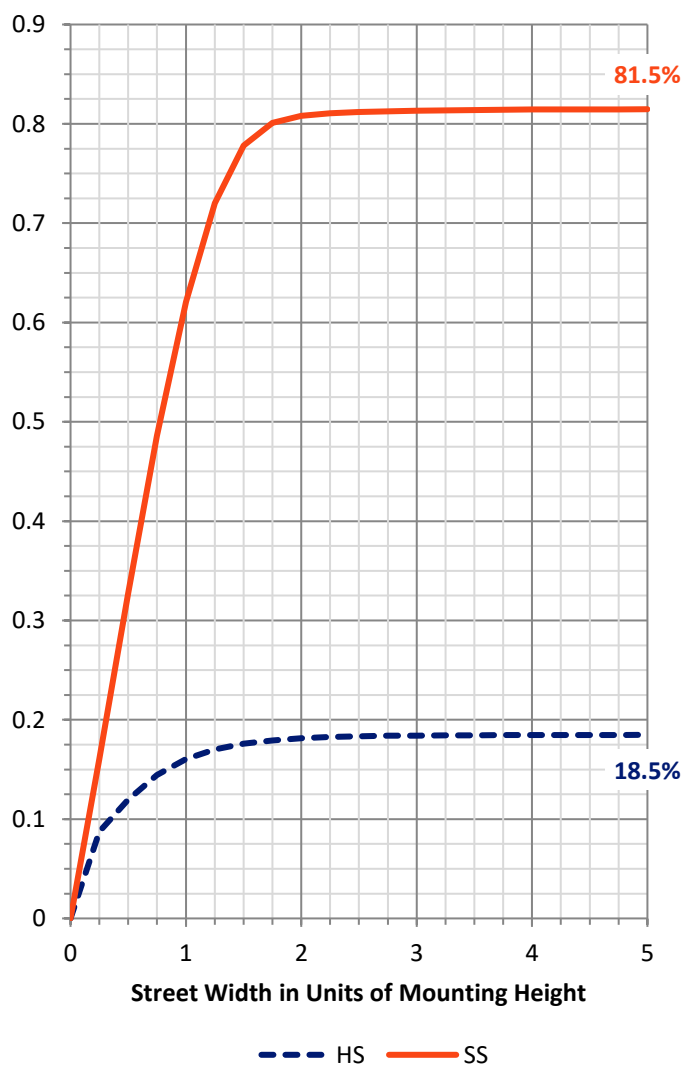
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5090.4	0.0	5090.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22315.6	0.0	22315.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	27406.1	0.0	27406.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.3	2.3
10°-20°	1662.8	6.1
20°-30°	2914.6	10.6
30°-40°	4805.7	17.5
40°-50°	6992.9	25.5
50°-60°	7923.7	28.9
60°-70°	2265.5	8.3
70°-80°	175.9	0.6
80°-90°	36.6	0.1
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°	27406.1	100.0
0°-180°	27406.1	100.0

Coefficient of Utilization



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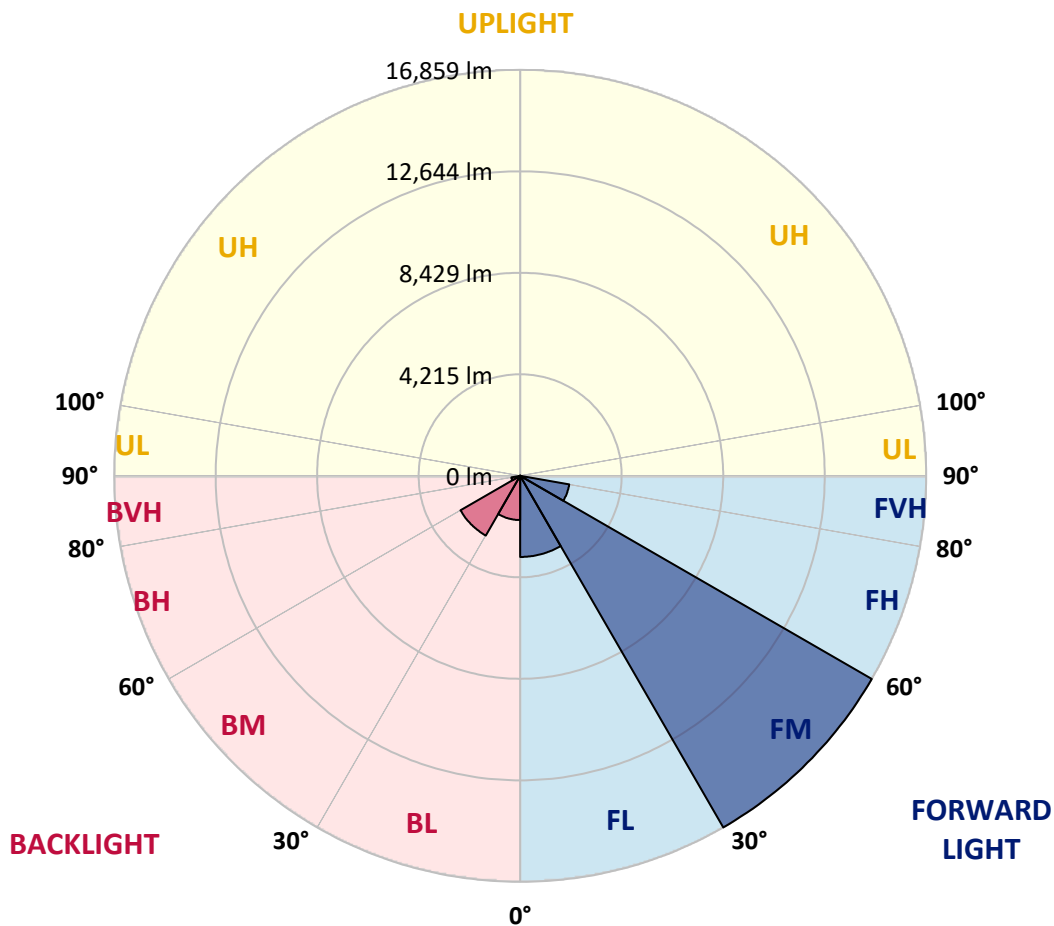
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3369.0	12.3			
FM (30°-60°)	16859.0	61.5			
FH (60°-80°)	2069.9	7.6			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1836.6	6.7	B3/2500		
BM (30°-60°)	2863.4	10.4	B3/5000		
BH (60°-80°)	371.6	1.4	B1/500		G1/500
BVH (80°-90°)	18.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1
2.5°	6624.7	6688.4	6698.2	6776.6	6771.7	6904.0	6943.2	6948.1	7036.3	6992.2	7104.9
5°	6438.5	6404.2	6389.5	6526.7	6565.9	6683.5	6781.5	6840.3	7021.6	7085.3	7202.9
7.5°	6271.9	6271.9	6281.7	6404.2	6389.5	6541.4	6644.3	6825.6	7090.2	7144.1	7286.2
10°	6110.2	6051.4	6124.9	6252.3	6360.1	6428.7	6644.3	6815.8	7124.5	7281.3	7477.3
12.5°	6026.9	6056.3	6066.1	6159.2	6276.8	6482.6	6600.2	6884.4	7369.5	7462.6	7673.3
15°	6551.2	6492.4	6350.3	6267.0	6365.0	6463.0	6757.0	7046.1	7496.9	7629.2	7864.4
17.5°	7158.8	7109.8	6992.2	6766.8	6546.3	6727.6	6957.9	7222.5	7634.1	7830.1	8178.0
20°	7952.6	7874.2	7756.6	7315.6	7124.5	6928.5	7173.5	7487.1	7859.5	8035.9	8393.6
22.5°	8898.3	8898.3	8633.7	8099.6	7702.7	7516.5	7619.4	7800.7	8109.4	8349.5	8702.3
25°	9883.2	9853.8	9613.7	9060.0	8388.7	8168.2	8285.8	8413.2	8496.5	8628.8	8864.0
27.5°	11010.1	10838.6	10534.8	9922.4	9329.5	8903.2	9030.6	8917.9	8815.0	8883.6	9221.7
30°	11774.5	11882.3	11495.2	10907.2	10348.7	9873.4	9897.9	9799.9	9329.5	9427.5	9628.4
32.5°	12568.3	12636.9	12421.3	12097.9	11539.3	10985.6	10784.7	10701.4	10348.7	10392.8	10196.8
35°	13229.8	13362.1	13171.0	13028.9	12867.2	12421.3	11867.6	12137.1	11568.7	11460.9	10951.3
37.5°	13837.4	13798.2	14023.6	13876.6	13842.3	13528.7	12921.1	12975.0	12592.8	12568.3	11980.3
40°	14381.3	14391.1	14699.8	14768.4	14631.2	14072.6	13190.6	13616.9	13925.6	13955.0	13200.4
42.5°	14832.1	14964.4	15229.0	15782.7	15576.9	14645.9	13469.9	13935.4	15082.0	15263.3	14356.8
45°	15224.1	15493.6	15821.9	16316.8	16199.2	15459.3	14165.7	14592.0	16316.8	16792.1	15444.6
47.5°	15248.6	15601.4	15959.1	16694.1	16841.1	15895.4	14886.0	15630.8	17296.8	17811.2	16238.4
50°	15150.6	15336.8	16052.2	16850.9	17184.1	16605.9	15895.4	16503.0	18247.3	18570.7	16640.2
52.5°	13989.3	14131.4	15567.1	16997.9	17801.4	17409.4	17233.1	17718.1	19217.5	19457.6	17017.5
55°	11661.8	11637.3	13612.0	16258.0	18085.6	18600.1	18492.3	18663.8	20339.6	20555.2	17110.6
57.5°	7977.1	8423.0	10128.2	13538.5	16346.2	18320.8	18433.5	18149.3	19031.3	19114.6	14915.4
60°	4302.1	4488.3	5860.3	9035.5	12445.8	14930.1	15224.1	14709.6	14641.0	14405.8	10647.5
62.5°	1710.1	1803.2	2582.3	4473.6	6781.5	9074.7	9706.8	9496.1	9045.3	8427.9	5512.4
65°	813.4	872.2	1283.8	2092.3	3008.6	3782.7	4414.8	4610.8	3400.6	3062.5	1817.9
67.5°	553.7	597.8	935.9	1195.6	1073.1	1122.1	1460.2	1357.3	798.7	681.1	504.7
70°	421.4	450.8	749.7	813.4	480.2	338.1	377.3	352.8	328.3	333.2	328.3
72.5°	298.9	323.4	548.8	480.2	210.7	156.8	200.9	240.1	240.1	240.1	235.2
75°	181.3	205.8	318.5	186.2	83.3	83.3	127.4	161.7	171.5	176.4	166.6
77.5°	93.1	117.6	107.8	53.9	53.9	63.7	93.1	112.7	122.5	122.5	117.6
80°	19.6	19.6	19.6	29.4	53.9	68.6	93.1	102.9	117.6	117.6	107.8
82.5°	0.0	4.9	14.7	29.4	49.0	63.7	88.2	102.9	117.6	122.5	112.7
85°	0.0	4.9	9.8	19.6	34.3	39.2	34.3	29.4	29.4	29.4	29.4
87.5°	0.0	0.0	4.9	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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°	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1	7046.1
2.5°	7114.7	7129.4	7104.9	7100.0	7080.4	7139.2	6997.1	6962.8	7051.0	6967.7	6987.3
5°	7207.8	7242.1	7198.0	7124.5	7016.7	6850.1	6708.0	6521.8	6433.6	6369.9	6360.1
7.5°	7276.4	7300.9	7256.8	7021.6	6698.2	6276.8	5963.2	5732.9	5551.6	5497.7	5409.5
10°	7555.7	7560.6	7340.1	6820.7	6188.6	5634.9	5154.7	4801.9	4620.6	4507.9	4458.9
12.5°	7741.9	7732.1	7286.2	6423.8	5581.0	4846.0	4297.2	3870.9	3704.3	3650.4	3616.1
15°	7977.1	7923.2	7158.8	6017.1	4797.0	4003.2	3508.3	3214.4	3199.7	3165.4	3199.7
17.5°	8163.3	8011.4	6972.6	5277.2	4047.3	3297.7	2974.3	2993.9	3033.1	3067.4	3072.3
20°	8467.1	8153.5	6546.3	4630.4	3351.6	2827.3	2822.4	2910.6	3008.6	3047.8	3087.0
22.5°	8697.4	8212.3	6090.6	3939.5	2783.2	2636.2	2719.5	2851.8	2925.3	2964.5	3023.3
25°	8780.7	8050.6	5483.0	3248.7	2508.8	2548.0	2675.4	2763.6	2856.7	2900.8	2876.3
27.5°	8864.0	7967.3	4757.8	2675.4	2361.8	2489.2	2597.0	2685.2	2714.6	2773.4	2812.6
30°	9064.9	7678.2	4106.1	2312.8	2288.3	2450.0	2528.4	2557.8	2636.2	2670.5	2670.5
32.5°	9226.6	7565.5	3415.3	2141.3	2278.5	2469.6	2479.4	2479.4	2489.2	2464.7	2454.9
35°	9559.8	7178.4	2797.9	2038.4	2273.6	2474.5	2499.0	2415.7	2190.3	2102.1	2077.6
37.5°	9971.4	6928.5	2342.2	2013.9	2307.9	2533.3	2572.5	2258.9	1964.9	1822.8	1798.3
40°	10471.1	6752.1	2043.3	2004.1	2386.3	2670.5	2552.9	2136.4	1754.2	1548.4	1538.6
42.5°	11054.2	6590.4	1842.4	1999.2	2484.3	2812.6	2533.3	2033.5	1538.6	1401.4	1421.0
45°	11519.7	6502.2	1705.2	1964.9	2518.6	2895.9	2548.0	1852.2	1450.4	1362.2	1372.0
47.5°	11882.3	6316.0	1592.5	1906.1	2513.7	2925.3	2415.7	1778.7	1406.3	1430.8	1455.3
50°	11892.1	6066.1	1450.4	1778.7	2440.2	2871.4	2263.8	1710.1	1396.5	1499.4	1548.4
52.5°	11759.8	5713.3	1298.5	1597.4	2268.7	2685.2	2126.6	1680.7	1352.4	1342.6	1401.4
55°	11289.4	5051.8	1043.7	1293.6	1915.9	2214.8	2004.1	1626.8	1220.1	1107.4	1117.2
57.5°	9123.7	3621.0	769.3	926.1	1357.3	1621.9	1808.1	1602.3	1097.6	940.8	945.7
60°	5649.6	2053.1	563.5	632.1	837.9	984.9	1465.1	1489.6	980.0	793.8	784.0
62.5°	2900.8	1014.3	436.1	445.9	514.5	578.2	1004.5	1249.5	886.9	754.6	754.6
65°	970.2	499.8	382.2	343.0	343.0	357.7	607.6	867.3	749.7	632.1	632.1
67.5°	416.5	372.4	333.2	298.9	274.4	259.7	343.0	504.7	558.6	480.2	460.6
70°	323.4	313.6	289.1	249.9	215.6	196.0	200.9	259.7	318.5	308.7	298.9
72.5°	240.1	240.1	230.3	196.0	166.6	142.1	132.3	137.2	151.9	156.8	161.7
75°	166.6	171.5	171.5	151.9	122.5	102.9	88.2	73.5	58.8	49.0	44.1
77.5°	112.7	117.6	127.4	112.7	93.1	68.6	53.9	39.2	24.5	9.8	9.8
80°	98.0	112.7	122.5	112.7	98.0	73.5	53.9	29.4	14.7	0.0	0.0
82.5°	102.9	112.7	127.4	107.8	93.1	68.6	53.9	34.3	14.7	4.9	0.0
85°	24.5	24.5	29.4	34.3	44.1	49.0	39.2	24.5	14.7	4.9	0.0
87.5°	9.8	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	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)