

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: P319810

Luminaire Tested: **GAN-SA6C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31101 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

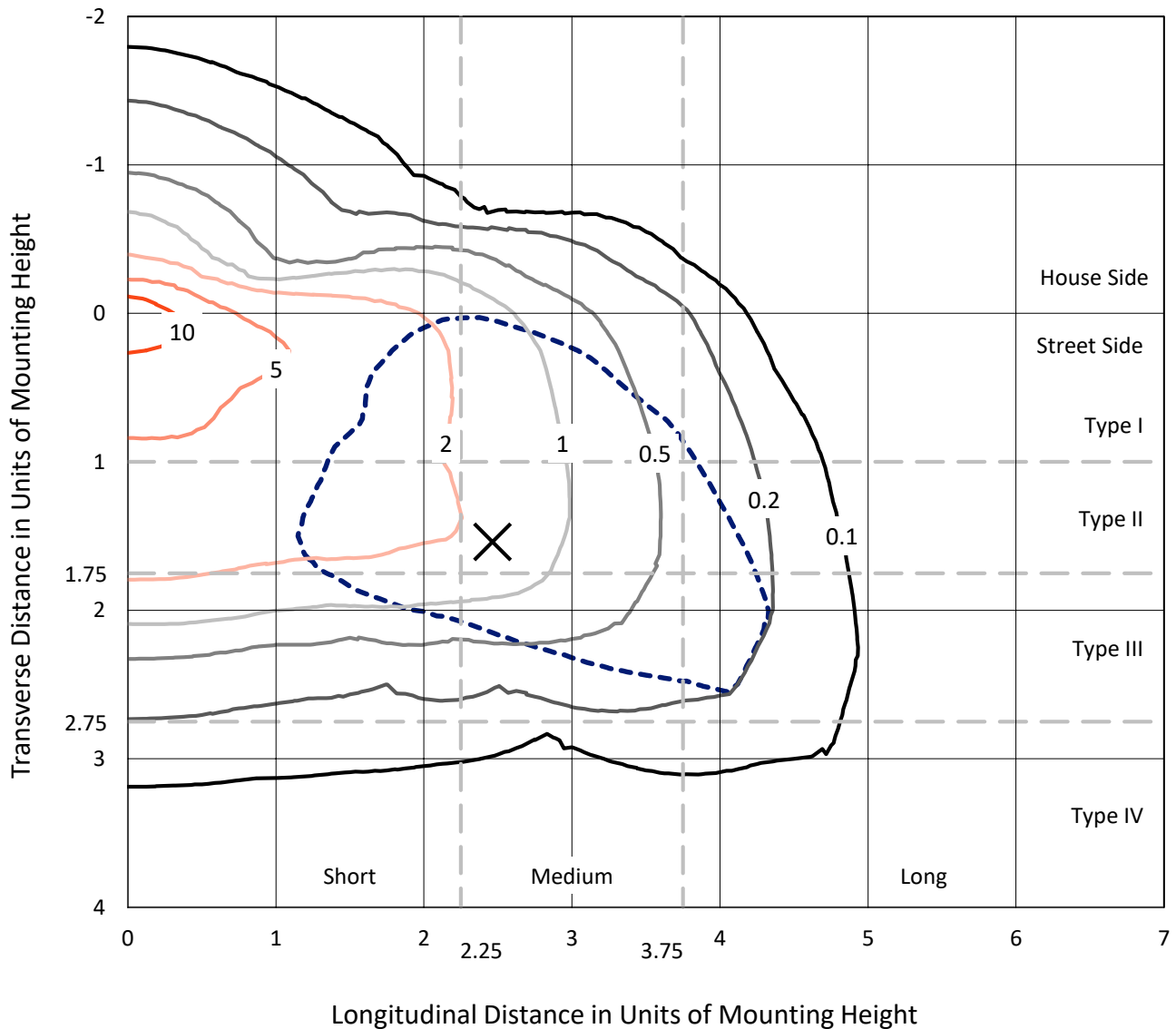
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

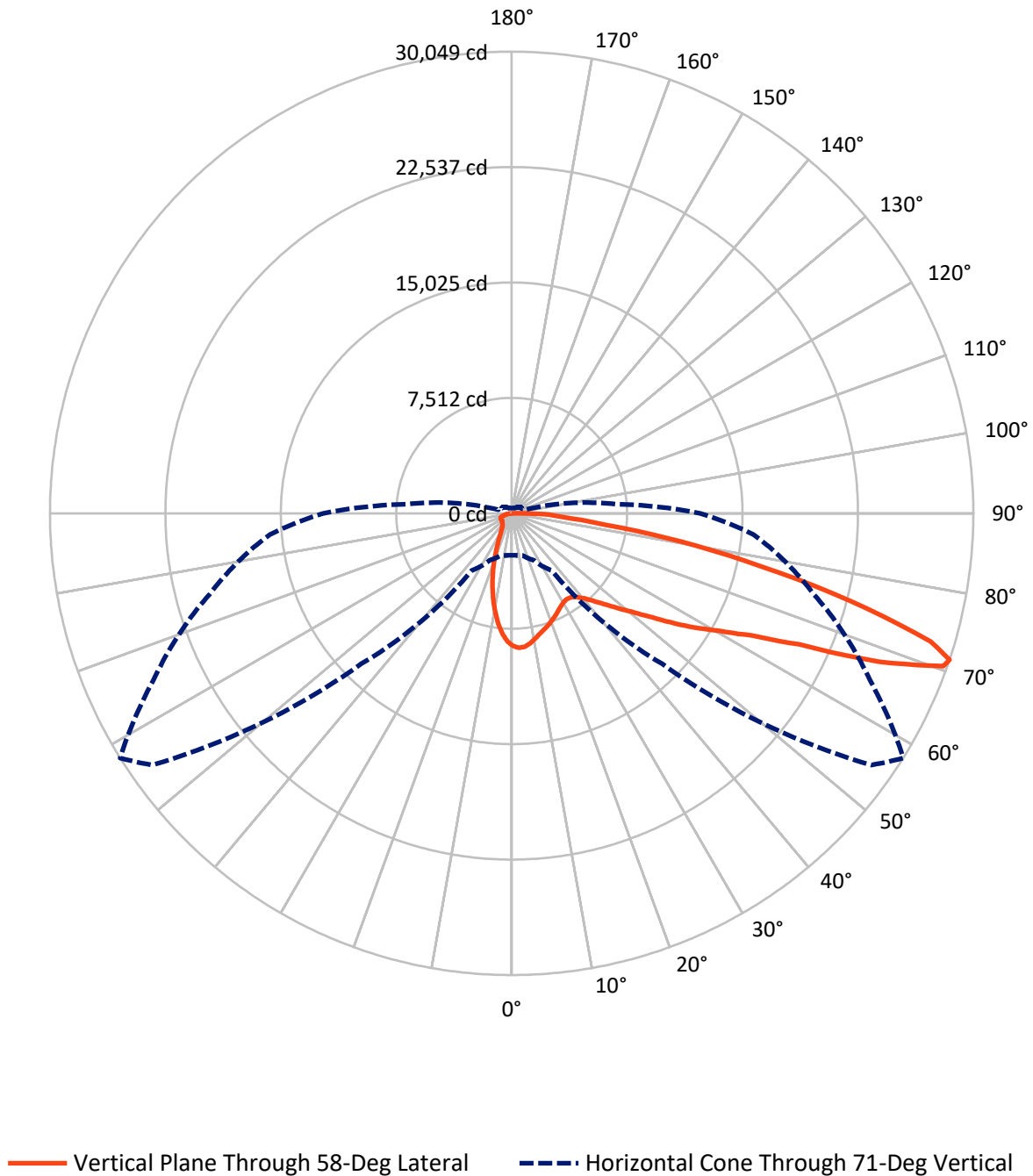
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4649.8	0.0	4649.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26451.2	0.0	26451.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	31101.0	0.0	31101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.4	2.4
10°-20°	1653.0	5.3
20°-30°	2100.8	6.8
30°-40°	2676.0	8.6
40°-50°	3794.7	12.2
50°-60°	5872.5	18.9
60°-70°	7994.7	25.7
70°-80°	5333.4	17.1
80°-90°	932.5	3.0
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°	31101.0	100.0
0°-180°	31101.0	100.0

Coefficient of Utilization



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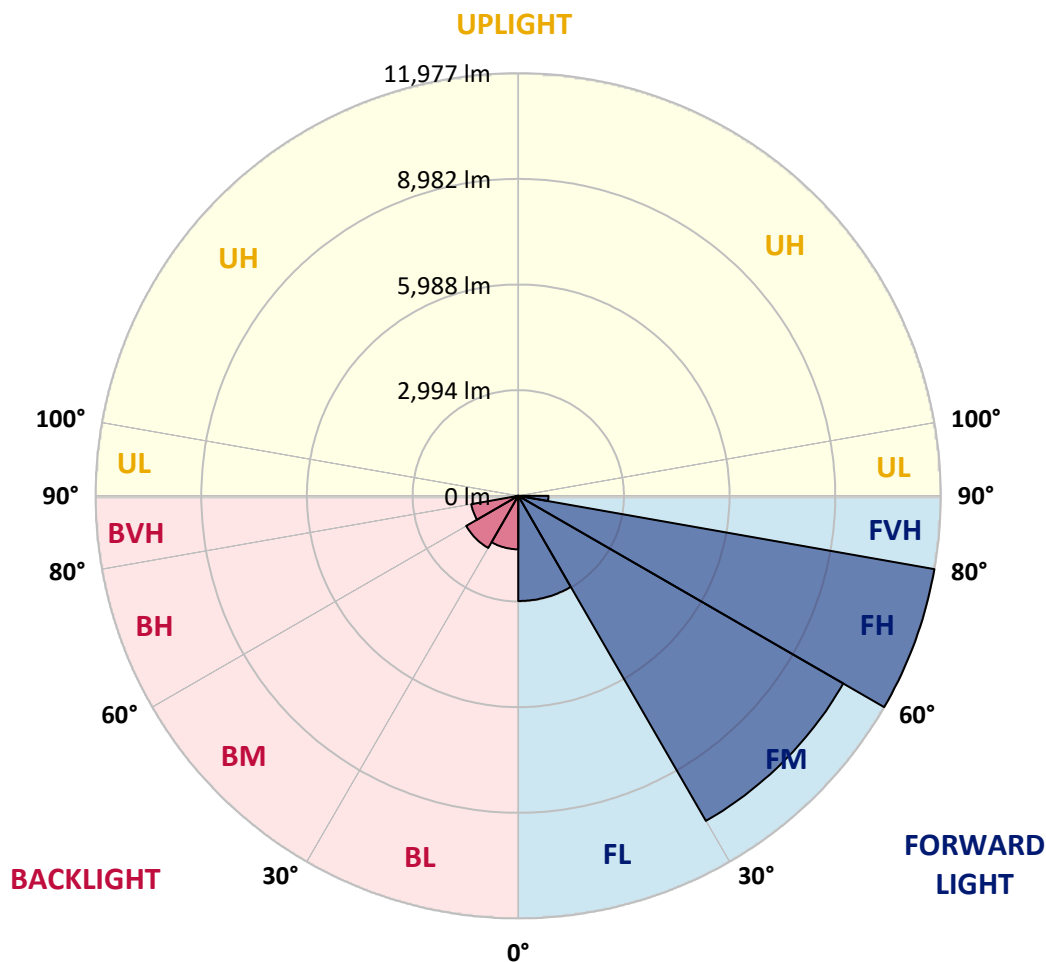
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2981.5	9.6			
FM	(30°-60°)	10638.1	34.2			
FH	(60°-80°)	11976.6	38.5			G4/12000
FVH	(80°-90°)	855.0	2.7			G5
BL	(0°-30°)	1515.7	4.9	B3/2500		
BM	(30°-60°)	1705.2	5.5	B2/2500		
BH	(60°-80°)	1351.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	77.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1
2.5°	8845.6	8833.7	8838.1	8829.4	8808.8	8788.2	8757.9	8763.3	8721.1	8658.2	8580.2
5°	8678.8	8674.5	8707.0	8725.4	8740.6	8728.6	8720.0	8730.8	8669.1	8582.4	8447.0
7.5°	8328.9	8281.2	8322.4	8384.1	8442.6	8487.1	8545.6	8553.1	8514.1	8423.1	8245.5
10°	7831.6	7786.1	7846.8	7943.2	8060.2	8166.4	8284.5	8306.1	8313.7	8231.4	8015.8
12.5°	7315.9	7281.3	7341.9	7477.4	7671.3	7834.9	8023.4	8055.9	8123.0	8067.8	7803.5
15°	6854.4	6841.4	6915.1	7048.3	7271.5	7521.8	7793.7	7853.3	7967.0	7948.6	7637.7
17.5°	6455.8	6452.5	6508.8	6648.6	6895.6	7211.9	7565.1	7665.9	7834.9	7856.5	7501.2
20°	6158.9	6152.4	6191.4	6294.3	6548.9	6907.5	7318.1	7456.8	7700.5	7776.4	7360.4
22.5°	5999.7	5998.6	5999.7	6048.4	6256.4	6590.1	7077.6	7246.6	7569.4	7712.4	7204.4
25°	5972.6	5969.3	5945.5	5940.1	6058.2	6324.7	6839.3	7025.6	7444.9	7668.0	7055.9
27.5°	6043.0	6047.3	6015.9	5965.0	5988.8	6150.2	6632.3	6831.7	7345.2	7659.4	6953.0
30°	6189.2	6187.1	6160.0	6106.9	6060.3	6085.2	6485.0	6684.3	7278.0	7697.3	6882.6
32.5°	6350.7	6362.6	6357.2	6327.9	6258.6	6158.9	6440.6	6635.6	7258.5	7788.3	6852.3
35°	6544.6	6557.6	6596.6	6619.3	6538.1	6377.7	6535.9	6704.9	7314.9	7959.5	6901.0
37.5°	6728.8	6762.3	6871.8	6968.2	6898.8	6720.1	6789.4	6909.7	7489.3	8229.2	7032.1
40°	6941.1	6970.3	7149.1	7353.9	7343.0	7157.8	7197.9	7278.0	7797.0	8616.0	7269.4
42.5°	7150.2	7208.7	7467.6	7758.0	7841.4	7677.8	7741.7	7784.0	8230.3	9128.4	7683.2
45°	7428.6	7491.4	7851.1	8201.0	8396.1	8304.0	8405.8	8422.1	8775.2	9826.1	8284.5
47.5°	7850.0	7921.5	8340.8	8708.1	9006.0	9015.7	9183.7	9177.2	9455.6	10624.5	9041.7
50°	8506.6	8609.5	8952.9	9296.3	9658.2	9859.7	10083.9	10052.5	10271.3	11475.0	9913.8
52.5°	9366.7	9414.4	9669.0	9922.5	10372.1	10823.9	11145.6	11117.5	11196.5	12349.2	10904.0
55°	10258.3	10294.1	10399.2	10537.9	11142.4	11879.1	12559.4	12515.0	12314.6	13257.1	11882.3
57.5°	11060.0	11132.6	11205.2	11262.6	11918.1	12981.9	14005.7	14008.9	13527.9	14236.5	12893.1
60°	11184.6	11248.5	11728.5	12181.3	13245.2	14453.1	15553.8	15521.3	14783.5	15299.2	14019.8
62.5°	9886.8	10030.8	10832.5	12037.2	14523.5	17144.2	17528.8	17488.7	16285.1	16609.0	15331.7
65°	7085.2	7248.8	8216.2	10026.5	13903.9	20109.4	21093.0	20553.5	18332.6	18220.0	16867.9
67.5°	4087.5	4126.5	4545.8	5999.7	10586.6	20264.3	26530.4	25775.3	21512.3	20047.6	17619.8
70°	3022.6	3021.5	3121.2	3692.1	5728.8	16538.6	29116.4	29793.5	24859.9	20648.9	16557.0
71°	2733.3	2736.6	2848.2	3360.6	4537.1	13843.2	28567.2	30049.2	25741.7	20352.0	15787.8
72.5°	2337.9	2348.7	2503.6	3013.9	3816.7	9546.6	26201.1	28515.2	26159.9	19619.7	14584.2
75°	1773.5	1798.4	2012.9	2540.5	3488.4	4841.5	19229.7	22770.1	23239.2	17312.1	10836.9
77.5°	1265.4	1293.5	1536.2	2136.4	3316.2	3648.8	12877.9	16609.0	17101.9	11094.7	4888.1
80°	799.5	833.1	1016.2	1699.8	3115.7	3464.6	8092.7	11164.0	9325.6	3550.2	1243.7
82.5°	469.1	495.1	630.5	1110.4	2544.8	3336.8	4761.4	6188.2	3629.3	1072.5	565.5
85°	271.9	283.8	393.3	707.4	1848.2	3149.3	3498.2	3459.2	1575.2	524.3	267.6
87.5°	126.8	140.8	232.9	369.4	1025.9	2282.6	2764.7	2388.8	979.4	245.9	125.7
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°	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1	8617.1
2.5°	8542.3	8523.9	8447.0	8378.7	8307.2	8214.0	8111.1	8098.1	8035.3	8047.2	8025.5
5°	8373.3	8326.7	8141.5	7973.5	7775.3	7597.6	7404.8	7315.9	7188.1	7179.4	7146.9
7.5°	8131.7	8045.0	7758.0	7439.4	7120.9	6817.6	6517.5	6320.3	6118.8	6033.2	6025.7
10°	7859.8	7712.4	7289.9	6818.7	6359.3	5916.2	5487.2	5169.8	4883.8	4748.4	4743.0
12.5°	7601.9	7384.2	6804.6	6163.2	5534.9	4960.7	4372.4	3955.4	3596.8	3476.5	3425.6
15°	7383.1	7076.5	6332.2	5512.1	4749.5	3952.1	3282.6	2843.8	2512.3	2397.5	2375.8
17.5°	7170.8	6776.4	5848.0	4854.5	3932.6	3056.2	2385.6	2059.5	1882.9	1836.3	1835.2
20°	6959.5	6467.7	5342.1	4181.8	3142.8	2285.9	1834.1	1687.9	1628.3	1622.9	1614.2
22.5°	6720.1	6140.5	4810.1	3506.8	2452.7	1797.3	1559.0	1500.5	1492.9	1512.4	1512.4
25°	6495.8	5815.5	4270.6	2846.0	1907.8	1499.4	1392.1	1380.2	1400.8	1435.5	1438.7
27.5°	6286.7	5502.4	3744.1	2258.8	1528.6	1320.6	1276.2	1290.3	1327.1	1367.2	1368.3
30°	6114.5	5206.6	3232.8	1780.0	1291.4	1187.4	1179.8	1207.9	1248.0	1279.4	1287.0
32.5°	5981.2	4954.2	2738.7	1431.1	1136.4	1087.7	1094.2	1118.0	1142.9	1160.3	1172.2
35°	5919.5	4737.5	2282.6	1206.9	1037.9	1010.8	1019.4	1032.4	1043.3	1056.3	1066.0
37.5°	5930.3	4569.6	1875.3	1067.1	971.8	957.7	957.7	957.7	957.7	964.2	965.3
40°	6031.1	4473.2	1543.8	978.3	927.4	912.2	900.3	889.4	880.8	885.1	882.9
42.5°	6288.9	4464.5	1301.1	921.9	891.6	866.7	842.9	827.7	816.9	821.2	823.4
45°	6726.6	4572.9	1137.5	881.9	858.0	820.1	789.8	773.5	765.9	780.0	782.2
47.5°	7293.2	4809.0	1037.9	852.6	826.6	776.8	744.3	729.1	731.3	751.9	757.3
50°	8023.4	5192.6	990.2	834.2	804.9	739.9	706.4	693.4	699.9	729.1	735.6
52.5°	8825.1	5745.1	995.6	828.8	790.9	712.9	677.1	661.9	672.8	699.9	705.3
55°	9750.3	6409.2	1085.5	836.4	770.3	695.5	653.3	627.3	635.9	660.9	665.2
57.5°	10778.4	7169.7	1266.4	834.2	744.3	679.3	628.3	589.3	595.8	611.0	615.3
60°	11848.7	8088.4	1547.0	840.7	732.4	659.8	594.8	546.0	543.8	556.8	559.0
62.5°	13133.6	9151.2	1867.7	845.0	739.9	634.8	550.3	502.7	496.2	499.4	501.6
65°	14457.5	9920.3	1747.5	827.7	763.8	614.3	511.3	460.4	448.5	446.3	447.4
67.5°	14498.6	9095.9	1225.3	793.0	773.5	603.4	482.1	424.7	405.2	397.6	396.5
70°	13002.5	7389.6	954.4	756.2	734.5	586.1	455.0	395.4	366.2	354.3	353.2
71°	12272.3	6802.4	904.6	737.8	705.3	568.8	443.1	382.4	352.1	339.1	336.9
72.5°	11127.2	6098.2	843.9	708.5	648.9	524.3	420.3	364.0	332.6	317.4	314.2
75°	7985.5	3987.9	724.8	631.6	537.3	418.2	368.3	327.2	300.1	281.7	279.5
77.5°	3076.7	1587.1	548.2	525.4	411.7	327.2	303.3	282.8	263.3	244.8	243.8
80°	951.2	709.6	399.8	395.4	297.9	243.8	236.2	230.8	223.2	203.7	199.3
82.5°	508.1	407.3	275.2	255.7	195.0	162.5	171.2	173.3	174.4	153.8	151.7
85°	242.7	215.6	154.9	145.2	113.8	91.0	105.1	113.8	114.8	94.3	87.8
87.5°	115.9	112.7	72.6	55.3	42.3	30.3	36.8	45.5	49.8	35.8	31.4
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)