

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: P319800

Luminaire Tested: **GAN-SA6B-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319800
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-SA6B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 25128 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

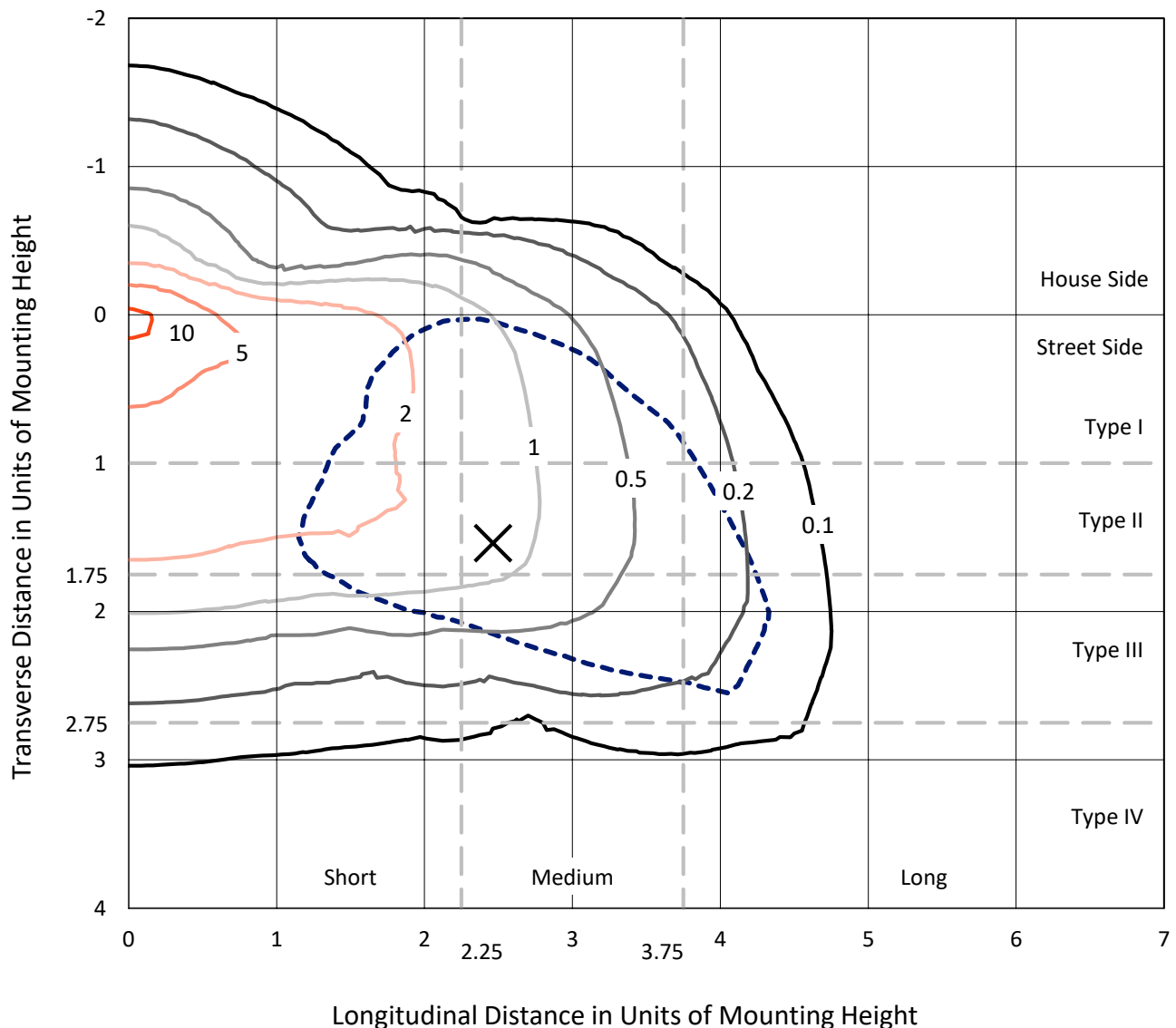
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

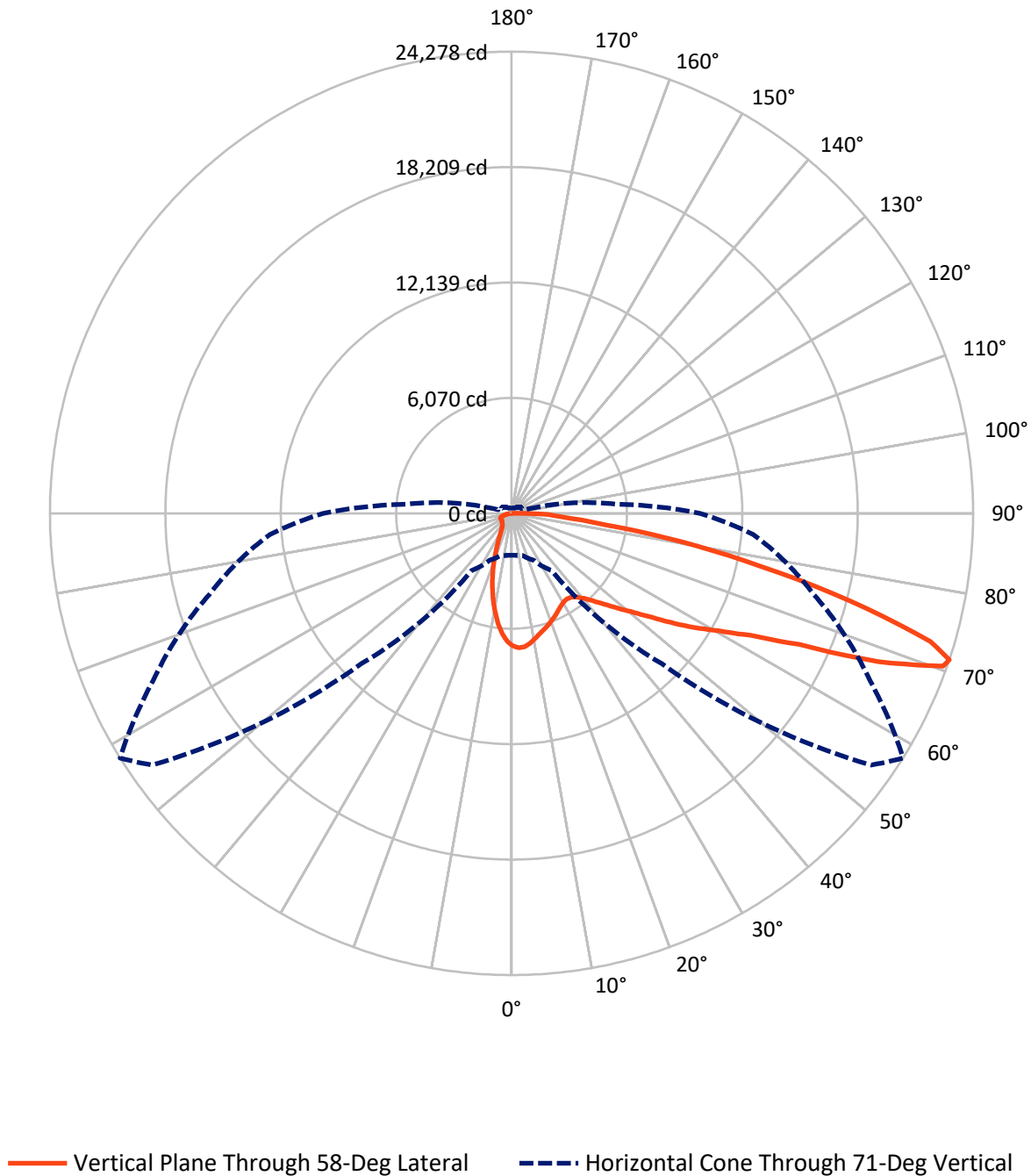
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	3756.8	0.0	3756.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21371.2	0.0	21371.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	25128.0	0.0	25128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.6	2.4
10°-20°	1335.6	5.3
20°-30°	1697.4	6.8
30°-40°	2162.1	8.6
40°-50°	3066.0	12.2
50°-60°	4744.7	18.9
60°-70°	6459.3	25.7
70°-80°	4309.1	17.1
80°-90°	753.4	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°	25128.0	100.0
0°-180°	25128.0	100.0

Coefficient of Utilization



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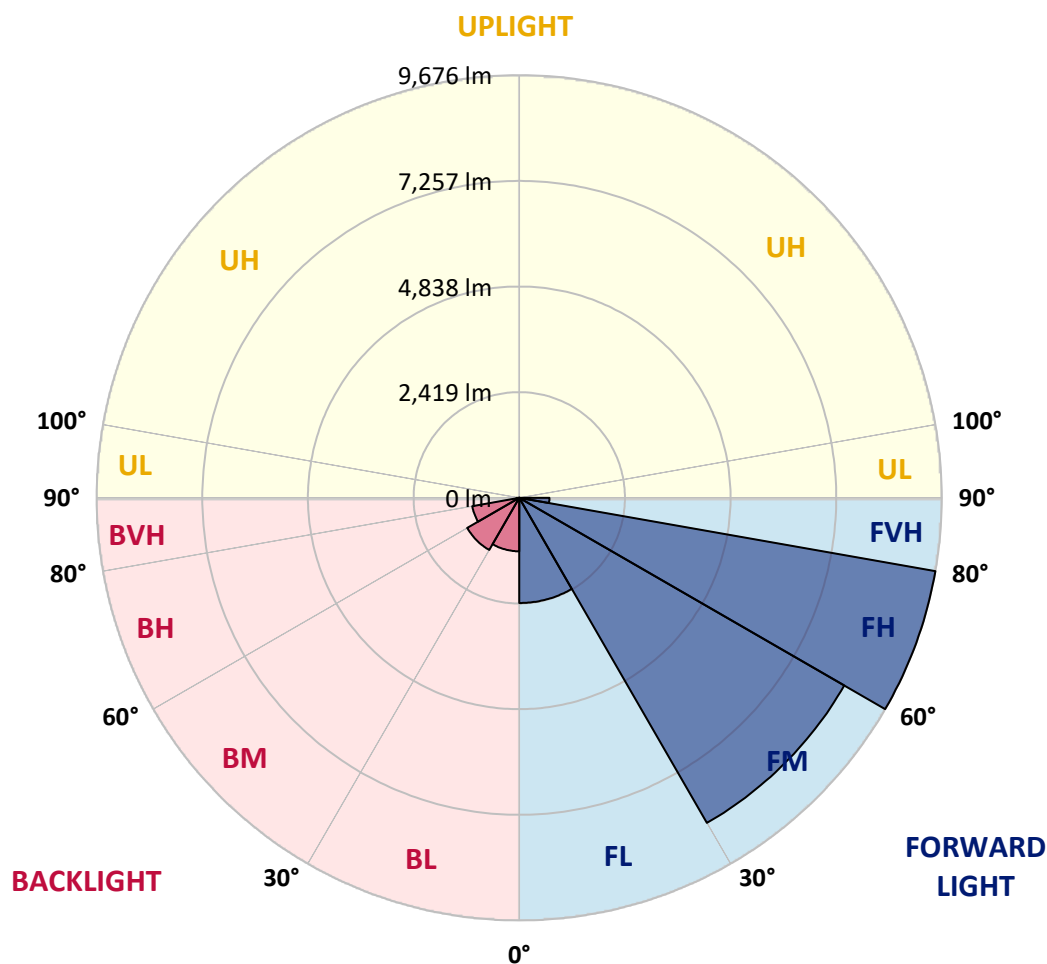
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2408.9	9.6			
FM	(30°-60°)	8595.0	34.2			
FH	(60°-80°)	9676.5	38.5			G4/12000
FVH	(80°-90°)	690.8	2.7			G4/750
BL	(0°-30°)	1224.6	4.9	B3/2500		
BM	(30°-60°)	1377.7	5.5	B2/2500		
BH	(60°-80°)	1091.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	62.6	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1
2.5°	7146.8	7137.2	7140.7	7133.7	7117.1	7100.4	7075.9	7080.3	7046.2	6995.4	6932.4
5°	7012.0	7008.5	7034.8	7049.7	7061.9	7052.3	7045.3	7054.0	7004.2	6934.1	6824.7
7.5°	6729.3	6690.8	6724.1	6773.9	6821.2	6857.1	6904.4	6910.5	6879.0	6805.5	6661.9
10°	6327.5	6290.8	6339.8	6417.7	6512.2	6598.0	6693.4	6710.9	6717.1	6650.5	6476.3
12.5°	5910.9	5882.9	5931.9	6041.3	6198.0	6330.2	6482.5	6508.7	6563.0	6518.4	6304.8
15°	5538.0	5527.5	5587.0	5694.7	5875.0	6077.2	6296.9	6345.0	6437.0	6422.1	6170.9
17.5°	5215.9	5213.3	5258.8	5371.7	5571.3	5826.9	6112.2	6193.6	6330.2	6347.7	6060.6
20°	4976.1	4970.8	5002.3	5085.5	5291.2	5580.9	5912.7	6024.7	6221.6	6282.9	5946.8
22.5°	4847.4	4846.5	4847.4	4886.8	5054.9	5324.4	5718.3	5854.9	6115.7	6231.3	5820.7
25°	4825.5	4822.9	4803.6	4799.3	4894.7	5110.0	5525.8	5676.3	6015.1	6195.4	5700.8
27.5°	4882.4	4885.9	4860.5	4819.4	4838.7	4969.1	5358.6	5519.6	5934.5	6188.4	5617.7
30°	5000.6	4998.8	4977.0	4934.1	4896.4	4916.6	5239.5	5400.6	5880.3	6219.0	5560.8
32.5°	5131.0	5140.6	5136.3	5112.6	5056.6	4976.1	5203.7	5361.2	5864.5	6292.5	5536.3
35°	5287.7	5298.2	5329.7	5348.1	5282.4	5152.9	5280.7	5417.2	5910.0	6430.8	5575.7
37.5°	5436.5	5463.6	5552.0	5629.9	5573.9	5429.5	5485.5	5582.7	6050.9	6648.8	5681.6
40°	5608.0	5631.7	5776.1	5941.5	5932.8	5783.1	5815.5	5880.3	6299.5	6961.3	5873.3
42.5°	5777.0	5824.2	6033.4	6268.0	6335.4	6203.3	6254.9	6289.0	6649.7	7375.3	6207.6
45°	6001.9	6052.7	6343.3	6626.0	6783.6	6709.2	6791.5	6804.6	7089.9	7939.0	6693.4
47.5°	6342.4	6400.2	6738.9	7035.7	7276.4	7284.2	7419.9	7414.7	7639.6	8584.1	7305.3
50°	6872.9	6956.0	7233.5	7510.9	7803.3	7966.1	8147.3	8121.9	8298.7	9271.2	8009.9
52.5°	7567.8	7606.4	7812.1	8016.9	8380.1	8745.1	9005.1	8982.3	9046.2	9977.5	8809.9
55°	8288.2	8317.1	8402.0	8514.0	9002.5	9597.7	10147.4	10111.5	9949.5	10711.0	9600.3
57.5°	8935.9	8994.6	9053.2	9099.6	9629.2	10488.7	11315.9	11318.5	10929.9	11502.3	10416.9
60°	9036.6	9088.2	9476.0	9841.9	10701.4	11677.4	12566.7	12540.4	11944.3	12361.0	11327.3
62.5°	7988.0	8104.4	8752.1	9725.5	11734.3	13851.6	14162.4	14130.0	13157.5	13419.2	12387.2
65°	5724.5	5856.6	6638.3	8100.9	11233.6	16247.3	17042.1	16606.2	14811.8	14720.8	13628.4
67.5°	3302.5	3334.0	3672.8	4847.4	8553.4	16372.5	21435.2	20825.1	17380.8	16197.4	14235.9
70°	2442.1	2441.2	2521.7	2983.0	4628.6	13362.3	23524.6	24071.6	20085.5	16683.2	13377.2
71°	2208.4	2211.0	2301.2	2715.2	3665.8	11184.6	23080.8	24278.2	20798.0	16443.4	12755.7
72.5°	1888.9	1897.7	2022.8	2435.1	3083.7	7713.1	21169.1	23038.8	21135.9	15851.7	11783.3
75°	1432.9	1453.0	1626.3	2052.6	2818.5	3911.7	15536.6	18397.1	18776.1	13987.3	8755.6
77.5°	1022.4	1045.1	1241.2	1726.1	2679.3	2948.0	10404.7	13419.2	13817.5	8963.9	3949.4
80°	646.0	673.1	821.0	1373.3	2517.4	2799.2	6538.5	9020.0	7534.6	2868.4	1004.8
82.5°	379.0	400.0	509.4	897.2	2056.1	2695.9	3846.9	4999.7	2932.3	866.5	456.9
85°	219.7	229.3	317.7	571.6	1493.3	2544.5	2826.3	2794.8	1272.7	423.6	216.2
87.5°	102.4	113.8	188.2	298.5	828.9	1844.3	2233.8	1930.0	791.3	198.7	101.5
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°	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1
2.5°	6901.7	6886.9	6824.7	6769.6	6711.8	6636.5	6553.4	6542.9	6492.1	6501.7	6484.2
5°	6765.2	6727.6	6577.9	6442.2	6282.0	6138.5	5982.7	5910.9	5807.6	5800.6	5774.4
7.5°	6570.0	6500.0	6268.0	6010.7	5753.3	5508.3	5265.8	5106.5	4943.7	4874.5	4868.4
10°	6350.3	6231.3	5889.9	5509.1	5138.0	4780.0	4433.4	4176.9	3945.9	3836.4	3832.1
12.5°	6142.0	5966.0	5497.8	4979.6	4471.9	4008.0	3532.7	3195.7	2906.0	2808.8	2767.7
15°	5965.2	5717.5	5116.1	4453.5	3837.3	3193.1	2652.2	2297.7	2029.8	1937.0	1919.5
17.5°	5793.6	5475.0	4724.9	3922.2	3177.3	2469.2	1927.4	1663.9	1521.3	1483.6	1482.8
20°	5622.9	5225.5	4316.1	3378.7	2539.2	1846.9	1481.9	1363.7	1315.6	1311.2	1304.2
22.5°	5429.5	4961.2	3886.3	2833.3	1981.7	1452.1	1259.6	1212.3	1206.2	1221.9	1221.9
25°	5248.3	4698.6	3450.4	2299.4	1541.4	1211.4	1124.8	1115.1	1131.8	1159.8	1162.4
27.5°	5079.4	4445.6	3025.0	1825.0	1235.0	1067.0	1031.1	1042.5	1072.2	1104.6	1105.5
30°	4940.2	4206.7	2611.9	1438.1	1043.4	959.3	953.2	976.0	1008.3	1033.7	1039.9
32.5°	4832.5	4002.7	2212.8	1156.3	918.2	878.8	884.1	903.3	923.4	937.4	947.1
35°	4782.6	3827.7	1844.3	975.1	838.5	816.7	823.7	834.2	842.9	853.4	861.3
37.5°	4791.4	3692.0	1515.1	862.2	785.1	773.8	773.8	773.8	773.8	779.0	779.9
40°	4872.8	3614.1	1247.3	790.4	749.3	737.0	727.4	718.6	711.6	715.1	713.4
42.5°	5081.1	3607.1	1051.2	744.9	720.4	700.2	681.0	668.7	660.0	663.5	665.2
45°	5434.7	3694.6	919.1	712.5	693.2	662.6	638.1	625.0	618.8	630.2	632.0
47.5°	5892.5	3885.5	838.5	688.9	667.9	627.6	601.3	589.1	590.8	607.5	611.8
50°	6482.5	4195.3	800.0	674.0	650.3	597.8	570.7	560.2	565.4	589.1	594.3
52.5°	7130.2	4641.7	804.4	669.6	639.0	575.9	547.1	534.8	543.6	565.4	569.8
55°	7877.7	5178.3	877.1	675.7	622.3	561.9	527.8	506.8	513.8	533.9	537.4
57.5°	8708.4	5792.7	1023.2	674.0	601.3	548.8	507.7	476.2	481.4	493.7	497.2
60°	9573.2	6535.0	1249.9	679.2	591.7	533.1	480.5	441.2	439.4	449.9	451.7
62.5°	10611.3	7393.7	1509.0	682.7	597.8	512.9	444.7	406.1	400.9	403.5	405.3
65°	11680.9	8015.1	1411.9	668.7	617.1	496.3	413.1	372.0	362.4	360.6	361.5
67.5°	11714.1	7349.0	990.0	640.7	625.0	487.5	389.5	343.1	327.4	321.2	320.4
70°	10505.4	5970.4	771.1	611.0	593.5	473.5	367.6	319.5	295.9	286.2	285.3
71°	9915.4	5496.0	730.9	596.1	569.8	459.5	358.0	309.0	284.5	274.0	272.2
72.5°	8990.2	4927.1	681.9	572.4	524.3	423.6	339.6	294.1	268.7	256.5	253.8
75°	6451.8	3222.0	585.6	510.3	434.1	337.9	297.6	264.3	242.5	227.6	225.8
77.5°	2485.9	1282.3	442.9	424.5	332.6	264.3	245.1	228.5	212.7	197.8	196.9
80°	768.5	573.3	323.0	319.5	240.7	196.9	190.8	186.4	180.3	164.6	161.1
82.5°	410.5	329.1	222.3	206.6	157.6	131.3	138.3	140.0	140.9	124.3	122.5
85°	196.1	174.2	125.2	117.3	91.9	73.5	84.9	91.9	92.8	76.2	70.9
87.5°	93.7	91.0	58.6	44.6	34.1	24.5	29.8	36.8	40.3	28.9	25.4
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)