

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: P319490

Luminaire Tested: **GAN-SA6C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30466 lumens
Efficiency: N/A
Efficacy: 91.5 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

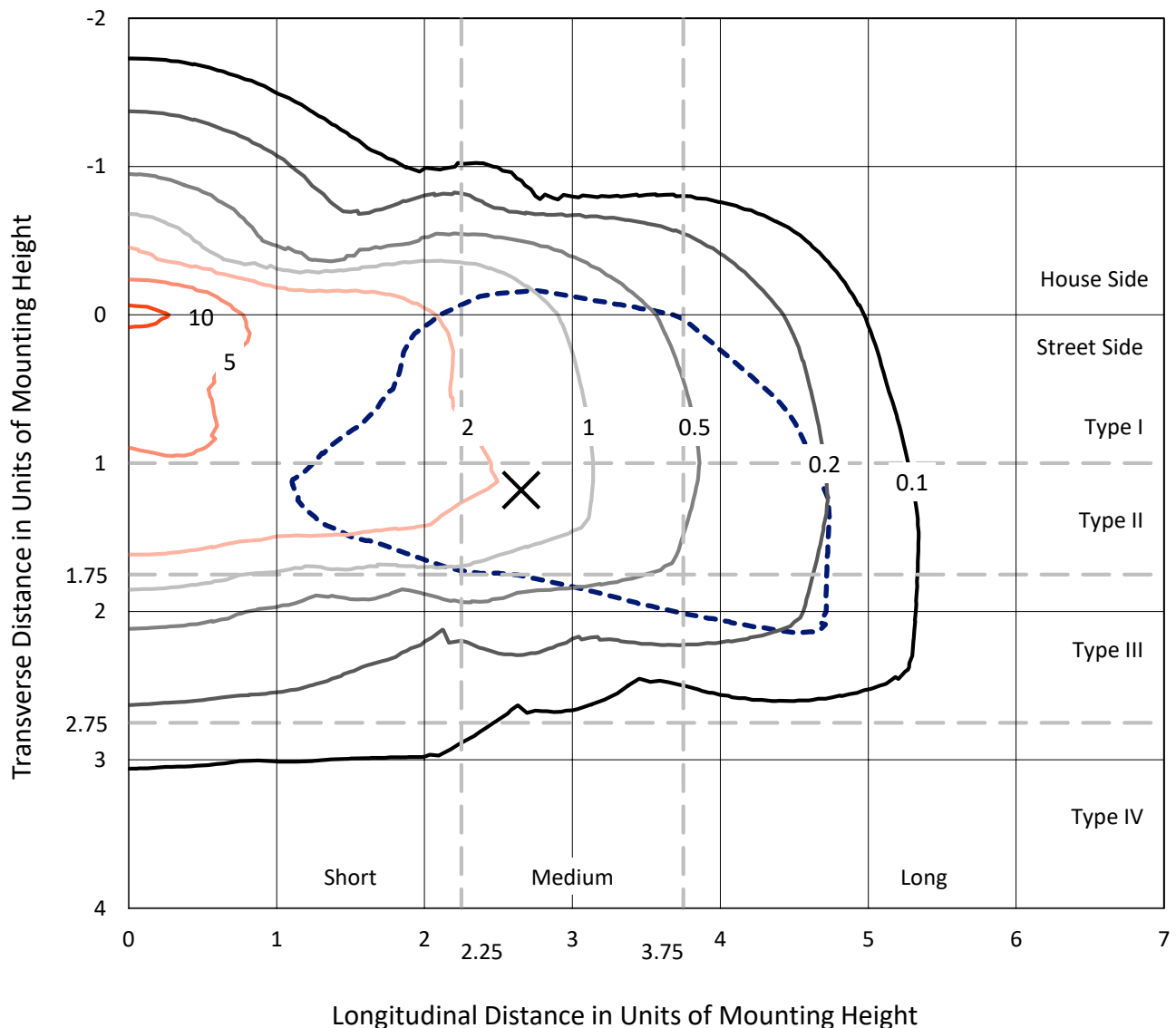


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Iso-Footcandle Lines of Horizontal Illumination

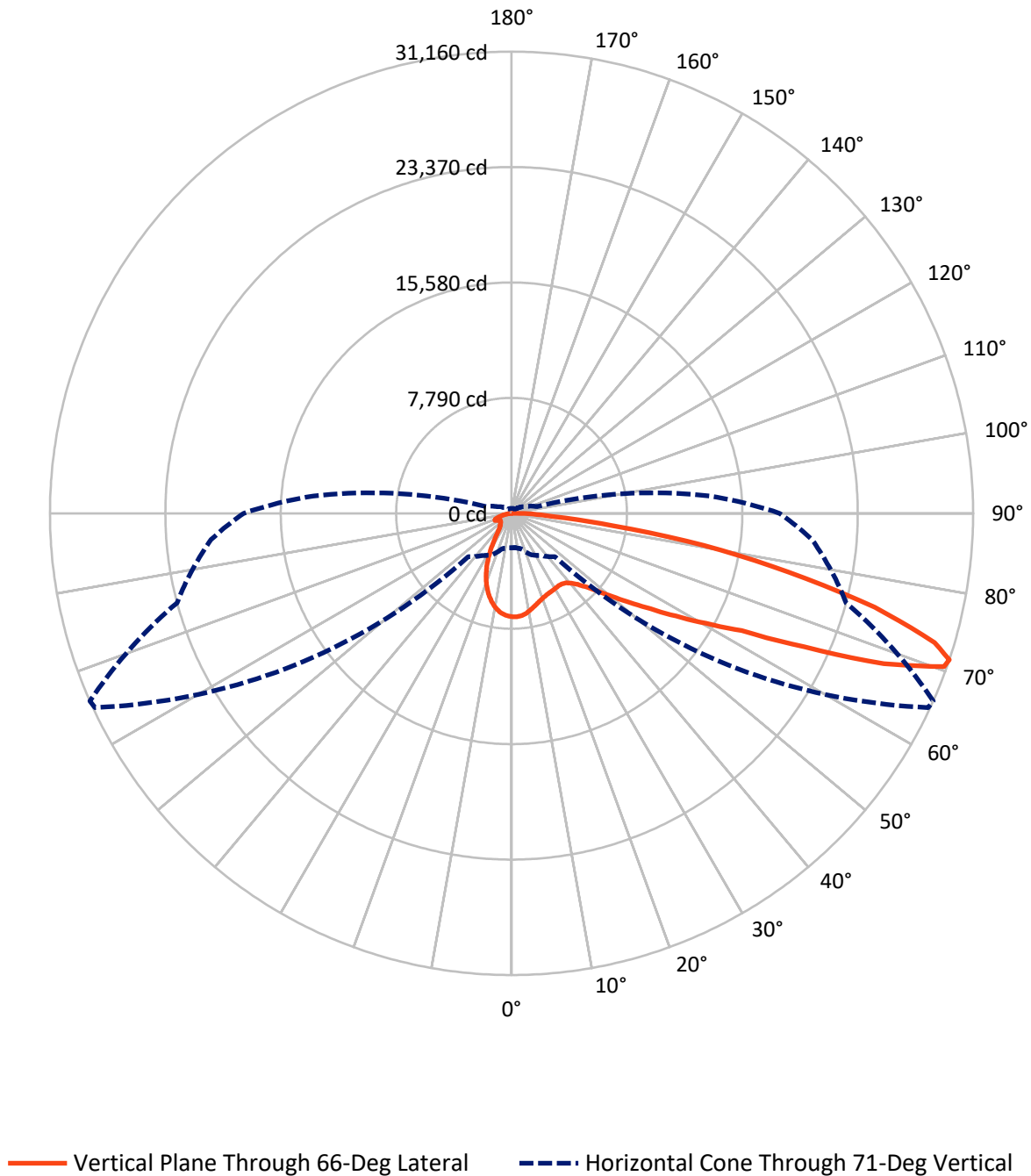
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	5646.2	0.0	5646.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	24819.8	0.0	24819.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	30466.0	0.0	30466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.3	2.0
10°-20°	1473.4	4.8
20°-30°	1979.2	6.5
30°-40°	2603.6	8.5
40°-50°	3787.5	12.4
50°-60°	5916.6	19.4
60°-70°	7411.5	24.3
70°-80°	5653.3	18.6
80°-90°	1026.6	3.4
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°	30466.0	100.0
0°-180°	30466.0	100.0

Coefficient of Utilization



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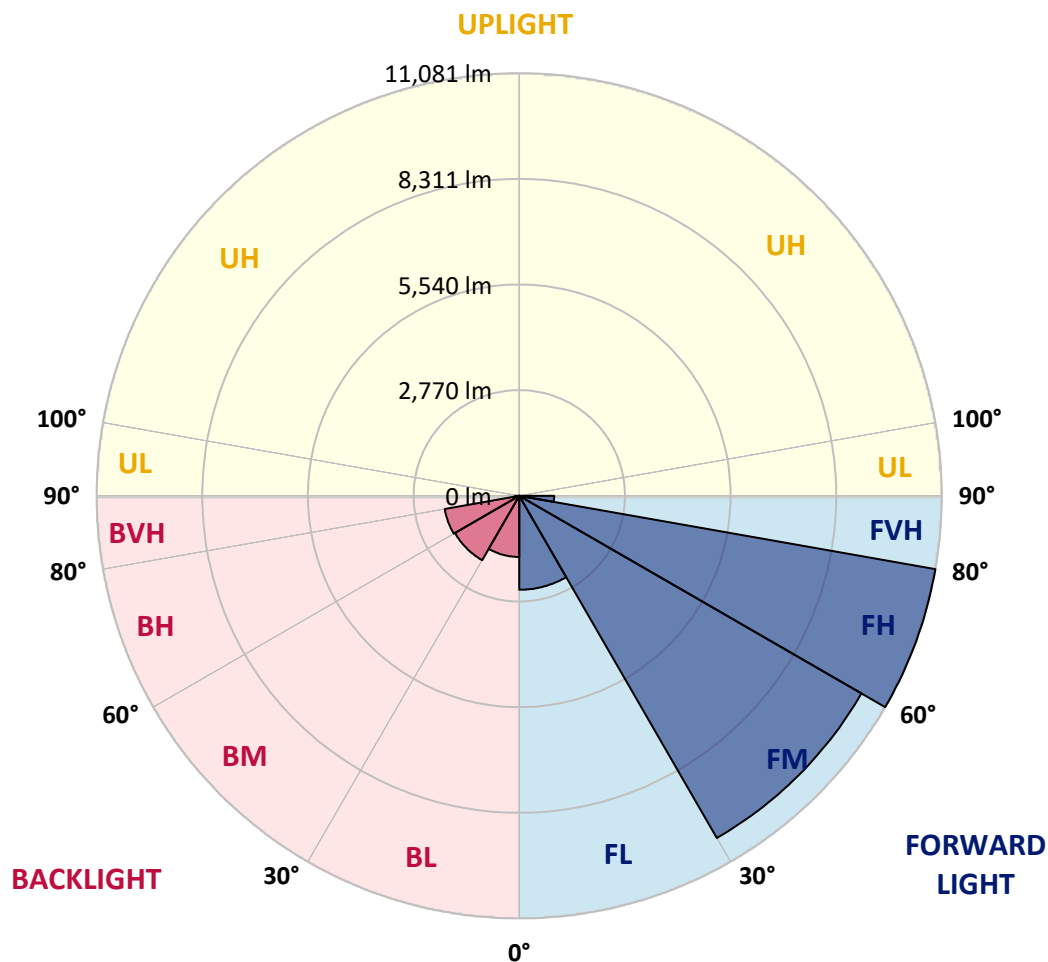
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2463.6	8.1			
FM	(30°-60°)	10360.0	34.0			
FH	(60°-80°)	11080.8	36.4			G4/12000
FVH	(80°-90°)	915.5	3.0			G5
BL	(0°-30°)	1603.4	5.3	B3/2500		
BM	(30°-60°)	1947.8	6.4	B2/2500		
BH	(60°-80°)	1983.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	111.1	0.4			G2/225
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°	65°	66°	75°	85°
0°	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2
2.5°	6849.8	6839.3	6870.8	6903.4	6916.1	6937.1	6968.7	6986.5	6985.5	6988.6	6978.1
5°	6395.4	6381.7	6444.8	6496.4	6595.2	6706.7	6842.4	6939.2	6941.3	6996.0	7010.7
7.5°	5965.2	5955.7	6028.3	6111.4	6226.0	6396.4	6616.3	6824.5	6837.2	6985.5	7037.0
10°	5620.2	5618.0	5688.5	5779.0	5912.6	6103.0	6355.4	6660.5	6679.4	6935.0	7041.2
12.5°	5350.9	5355.1	5416.1	5519.2	5660.1	5858.9	6132.4	6476.4	6506.9	6855.0	7017.0
15°	5152.1	5168.9	5218.3	5322.5	5461.3	5663.3	5944.1	6306.0	6352.3	6765.6	7003.4
17.5°	5038.5	5057.4	5092.1	5178.4	5308.8	5503.4	5769.5	6166.1	6208.1	6697.3	7004.4
20°	5004.8	5020.6	5040.6	5093.2	5203.6	5380.3	5631.7	6039.8	6085.1	6642.6	7014.9
22.5°	5071.1	5082.6	5084.7	5080.5	5147.9	5292.0	5531.8	5947.3	5995.7	6606.8	7022.3
25°	5213.1	5228.9	5217.3	5178.4	5156.3	5244.6	5480.3	5886.3	5934.7	6580.5	7007.6
27.5°	5426.6	5428.7	5419.2	5368.8	5264.6	5249.9	5464.5	5850.5	5896.8	6550.0	6977.1
30°	5716.9	5730.6	5713.8	5645.4	5475.0	5334.0	5483.4	5815.8	5857.9	6511.1	6927.6
32.5°	6056.7	6090.3	6089.3	6017.8	5773.7	5522.3	5561.2	5794.8	5827.4	6470.1	6867.7
35°	6409.1	6455.3	6541.6	6511.1	6209.2	5820.0	5710.6	5828.4	5850.5	6464.8	6825.6
37.5°	6775.1	6821.4	6999.2	7081.2	6727.8	6246.0	5946.2	5947.3	5957.8	6529.0	6822.4
40°	7158.0	7207.4	7474.6	7688.1	7399.9	6785.6	6326.0	6195.5	6184.0	6686.8	6884.5
42.5°	7694.4	7738.6	8059.4	8331.9	8145.7	7476.7	6850.8	6578.4	6554.2	6996.0	7083.3
45°	8372.9	8410.8	8751.6	9042.9	8947.2	8265.6	7510.4	7105.4	7101.2	7511.4	7486.2
47.5°	9179.7	9209.1	9515.2	9797.1	9831.8	9173.4	8339.2	7918.5	7850.1	8218.3	8109.9
50°	10020.1	10052.7	10261.0	10564.0	10821.7	10388.3	9405.8	8914.6	8823.1	9151.3	8993.5
52.5°	10576.6	10619.7	10800.6	11184.6	11934.5	11720.0	10667.0	10122.2	9983.3	10282.0	10161.1
55°	10328.3	10425.1	10701.7	11317.1	12824.4	13754.3	12222.8	11530.6	11373.9	11622.1	11550.6
57.5°	9199.7	9332.2	9709.8	10659.7	12949.6	15546.7	14574.7	13189.4	13079.0	13007.4	13040.1
60°	7137.0	7264.2	7732.3	8970.4	12077.6	16855.2	18114.3	15234.3	15074.4	14398.0	14427.5
62.5°	5051.1	4986.9	5307.7	6213.4	9814.0	17008.8	22141.9	17969.1	17443.2	15866.4	15737.1
65°	3852.0	3837.2	3981.3	4269.5	5944.1	15171.1	24541.2	22565.8	21744.3	17593.6	17288.6
67.5°	3165.1	3138.8	3280.8	3700.5	3827.8	9787.7	24593.8	27898.8	27092.0	19743.6	19083.1
70°	2602.3	2572.9	2705.4	3247.1	3537.4	4963.8	20698.7	31021.8	30978.7	22465.9	20437.9
71°	2333.1	2312.0	2470.8	3072.5	3475.4	4137.0	17871.3	31030.2	31159.6	23387.3	20357.9
72.5°	1899.7	1907.0	2075.3	2734.9	3429.1	3653.2	13134.7	29583.9	29857.4	24265.6	19631.1
75°	1262.2	1268.6	1489.5	2103.7	3325.0	3574.3	7219.0	24824.2	25327.0	23739.7	17913.4
77.5°	847.8	845.7	996.1	1443.2	2896.9	3574.3	4232.7	18566.6	19118.8	18889.5	13810.0
80°	583.8	579.6	685.8	996.1	2193.2	3617.4	3272.4	13011.7	13178.9	10201.1	5612.8
82.5°	357.6	360.8	448.1	703.7	1492.6	3255.5	3089.3	7094.9	6912.9	2861.1	1402.1
85°	205.1	204.1	286.1	476.5	958.3	2747.5	3012.6	3053.6	2801.1	861.5	507.0
87.5°	73.6	78.9	153.6	264.0	549.1	1913.4	2556.0	1588.3	1431.6	389.2	229.3
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°	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2	6979.2
2.5°	6970.8	6977.1	6969.7	6927.6	6891.9	6834.0	6801.4	6756.2	6742.5	6736.2	6753.0
5°	6997.1	6999.2	6937.1	6826.6	6702.5	6556.3	6451.1	6321.8	6260.7	6234.4	6251.3
7.5°	7021.2	7011.8	6876.1	6664.7	6435.4	6180.8	5954.6	5747.4	5626.5	5577.0	5581.2
10°	7024.4	6984.4	6766.7	6439.6	6084.0	5710.6	5363.5	5043.7	4841.8	4710.3	4750.3
12.5°	6991.8	6924.5	6605.8	6148.2	5654.9	5145.8	4676.6	4197.0	3908.8	3775.2	3779.4
15°	6966.5	6844.5	6408.0	5805.3	5142.6	4468.4	3827.8	3264.0	2956.8	2820.1	2755.9
17.5°	6945.5	6758.3	6178.7	5419.2	4537.8	3682.6	2912.6	2409.8	2241.5	2201.6	2184.7
20°	6916.1	6666.8	5923.1	4972.2	3848.8	2803.2	2126.9	1878.6	1879.7	1926.0	1932.3
22.5°	6875.0	6562.6	5650.7	4470.5	3109.3	2041.7	1667.2	1595.7	1668.3	1756.6	1772.4
25°	6814.0	6439.6	5347.7	3916.1	2370.9	1569.4	1424.2	1421.1	1509.4	1602.0	1615.7
27.5°	6727.8	6278.6	5011.1	3320.8	1747.2	1333.8	1275.9	1298.0	1363.2	1430.5	1435.8
30°	6612.1	6091.4	4639.8	2692.8	1369.5	1187.6	1181.3	1201.2	1241.2	1288.5	1292.8
32.5°	6484.8	5901.0	4243.3	2084.8	1172.8	1108.7	1115.0	1124.5	1143.4	1162.3	1166.5
35°	6369.1	5706.4	3837.2	1584.1	1079.2	1057.1	1052.9	1050.8	1052.9	1046.6	1047.7
37.5°	6294.4	5545.5	3414.4	1261.2	1025.6	1011.9	999.3	983.5	965.6	955.1	957.2
40°	6267.1	5425.6	2986.3	1089.7	981.4	971.9	947.7	914.1	893.0	886.7	886.7
42.5°	6340.7	5363.5	2572.9	1003.5	944.6	928.8	888.8	849.9	834.1	833.1	832.0
45°	6565.8	5388.7	2179.5	956.2	910.9	880.4	827.8	795.2	784.7	786.8	785.7
47.5°	6969.7	5547.6	1842.9	924.6	877.3	837.3	778.4	752.1	739.5	739.5	740.5
50°	7656.6	5918.9	1574.7	898.3	848.9	797.3	742.6	710.0	693.2	692.1	692.1
52.5°	8656.9	6583.7	1407.4	876.2	817.3	761.6	706.9	665.8	645.8	641.6	639.5
55°	9910.7	7536.7	1361.1	861.5	775.2	722.6	663.7	622.7	600.6	591.2	590.1
57.5°	11312.9	8695.8	1452.6	843.6	732.1	676.4	616.4	577.5	554.3	542.8	541.7
60°	12731.9	9961.2	1826.0	818.4	696.3	625.9	568.0	532.2	509.1	496.5	494.4
62.5°	14152.9	11295.0	2588.7	816.3	671.1	577.5	518.6	488.1	466.0	452.3	449.1
65°	15756.0	12755.0	3455.4	872.0	662.7	533.3	468.1	443.9	425.0	412.3	411.3
67.5°	17596.8	14403.3	3372.3	986.7	691.1	493.3	420.7	401.8	388.1	377.6	376.6
70°	18460.4	14145.6	2096.4	1067.7	731.1	454.4	375.5	361.8	351.3	344.0	340.8
71°	18098.5	13431.4	1757.7	1058.2	726.8	437.6	357.6	347.1	336.6	330.3	327.1
72.5°	17111.9	12249.0	1466.3	984.6	679.5	407.1	334.5	324.0	314.5	307.1	305.0
75°	15355.2	10939.5	1173.9	786.8	541.7	344.0	293.5	281.9	274.5	270.3	266.1
77.5°	11287.6	7807.0	907.8	621.7	398.7	280.8	250.3	241.9	234.6	228.3	225.1
80°	4324.2	3024.1	611.1	463.9	292.4	221.9	202.0	197.8	190.4	186.2	186.2
82.5°	1164.4	903.6	326.1	280.8	195.6	162.0	154.6	152.5	146.2	137.8	138.8
85°	471.2	398.7	183.0	154.6	119.9	95.7	104.1	105.2	97.8	87.3	88.4
87.5°	207.2	169.4	102.0	68.4	52.6	36.8	47.3	47.3	43.1	35.8	32.6
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)