

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: P317680

Luminaire Tested: **GAN-SA6B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29224 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

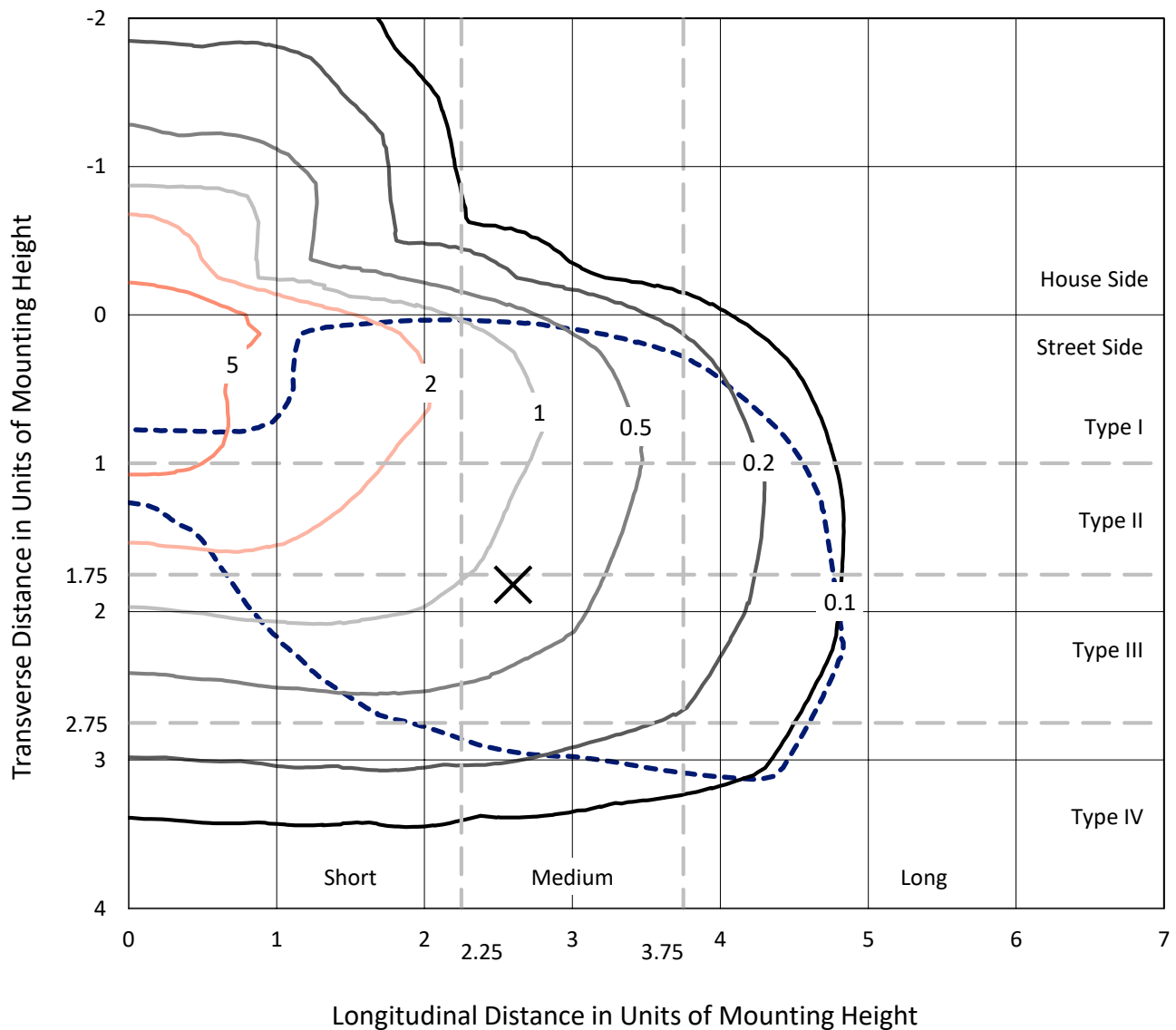


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Iso-Footcandle Lines of Horizontal Illumination

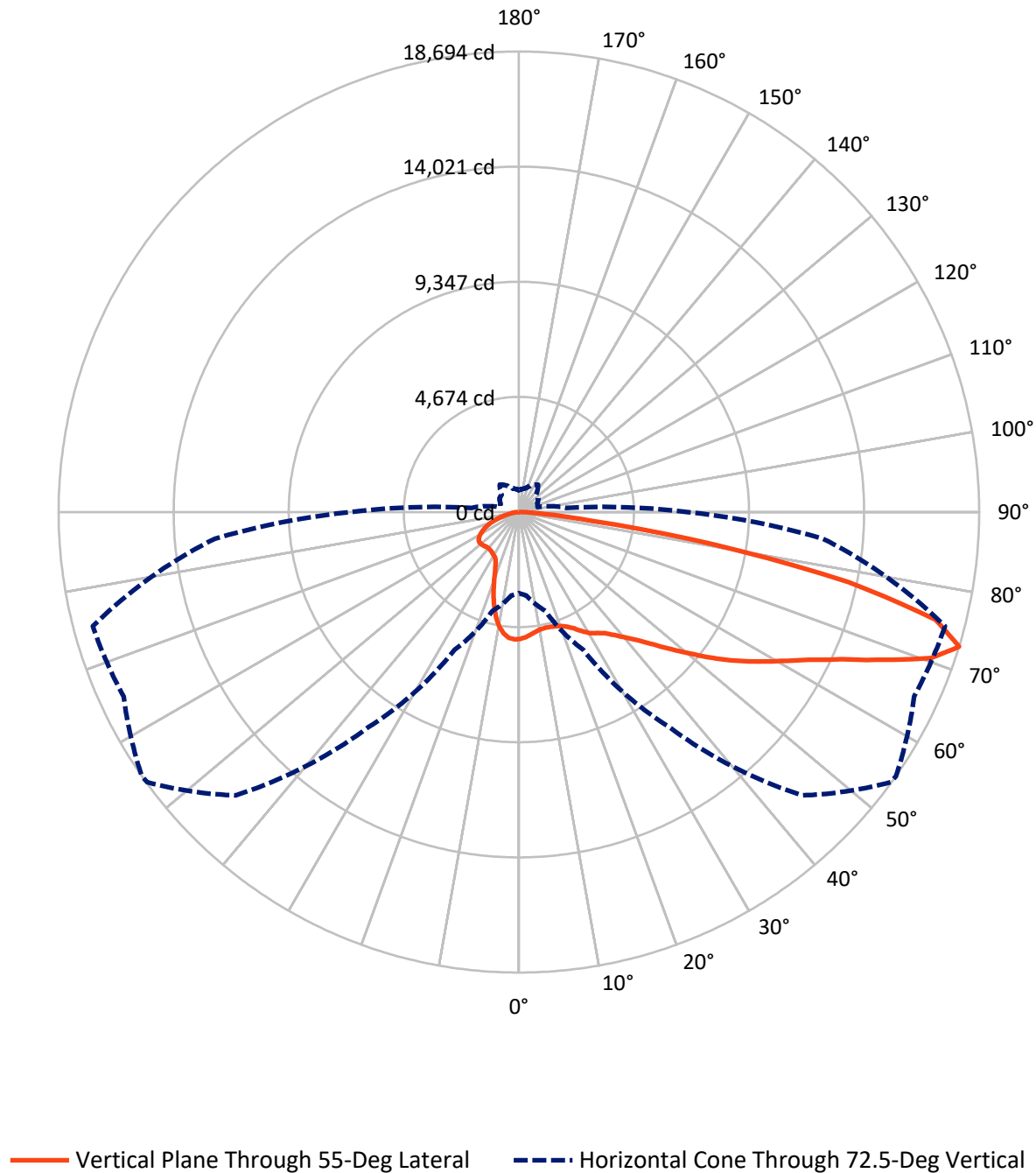
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5431.8	0.0	5431.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23792.2	0.0	23792.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	29224.0	0.0	29224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.4	1.6
10°-20°	1241.8	4.2
20°-30°	2047.4	7.0
30°-40°	3028.6	10.4
40°-50°	4227.3	14.5
50°-60°	5504.1	18.8
60°-70°	6764.3	23.1
70°-80°	5302.4	18.1
80°-90°	641.7	2.2
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°	29224.0	100.0
0°-180°	29224.0	100.0

Coefficient of Utilization



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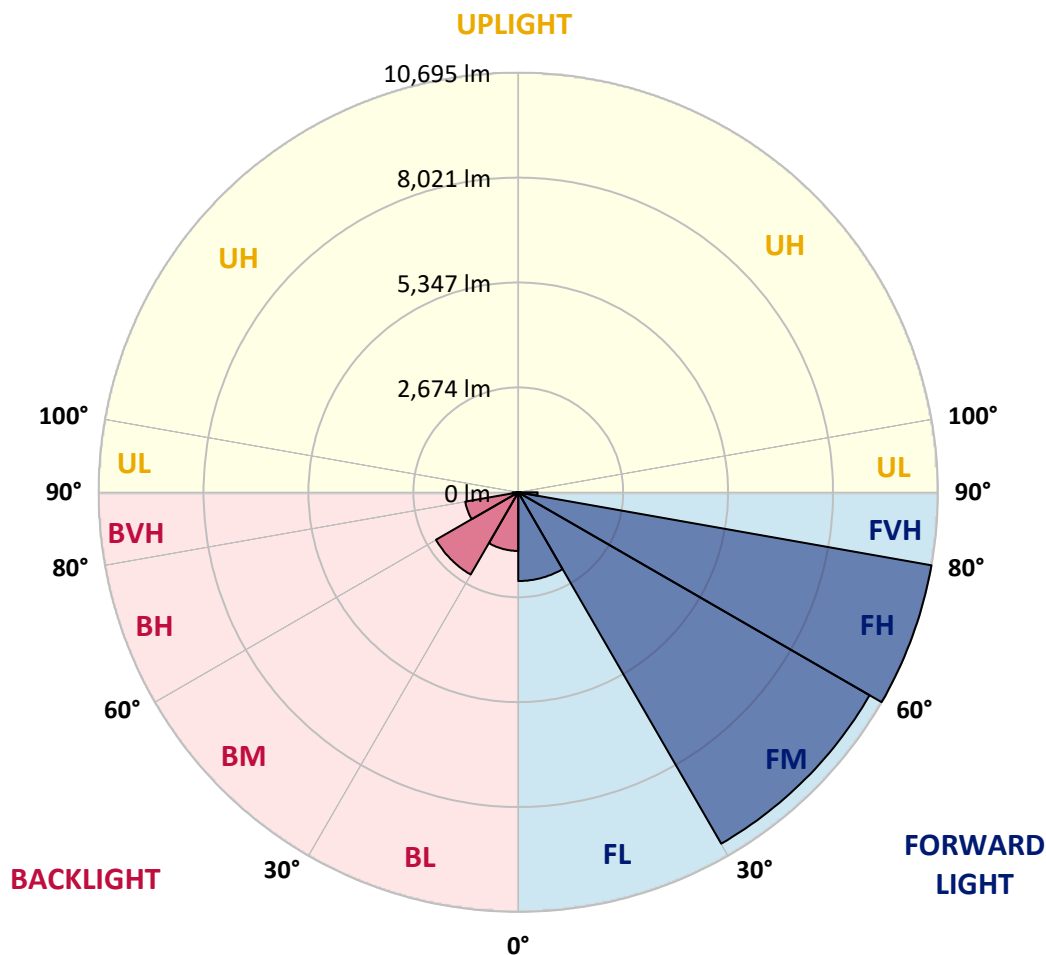
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2261.1	7.7			
FM	(30°-60°)	10340.0	35.4			
FH	(60°-80°)	10695.0	36.6			G4/12000
FVH	(80°-90°)	496.1	1.7			G3/500
BL	(0°-30°)	1494.5	5.1	B3/2500		
BM	(30°-60°)	2419.9	8.3	B2/2500		
BH	(60°-80°)	1371.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	145.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5
2.5°	4986.7	4974.8	4989.6	5010.4	5033.1	5063.7	5081.4	5089.3	5119.9	5131.8	5157.4
5°	4755.7	4749.8	4774.5	4810.0	4860.3	4931.4	4988.7	4999.5	5080.5	5137.7	5190.0
7.5°	4587.9	4587.9	4616.5	4659.0	4715.2	4811.0	4891.9	4906.7	5043.9	5167.3	5264.0
10°	4454.7	4459.6	4493.1	4543.5	4609.6	4711.3	4818.9	4835.7	5034.1	5236.4	5390.4
12.5°	4365.8	4377.7	4408.3	4453.7	4535.6	4659.0	4795.2	4817.9	5054.8	5335.1	5542.4
15°	4422.1	4441.8	4444.8	4463.5	4508.9	4643.2	4809.0	4832.7	5099.2	5435.8	5715.1
17.5°	4668.8	4675.8	4645.2	4605.7	4584.0	4669.8	4850.5	4875.1	5152.5	5535.5	5881.0
20°	5043.9	5040.0	4973.9	4867.2	4756.7	4770.5	4918.6	4944.2	5224.6	5623.3	6046.8
22.5°	5517.7	5503.9	5402.2	5205.8	5017.3	4938.3	5038.0	5059.7	5333.1	5748.7	6224.5
25°	6092.2	6061.6	5927.4	5663.8	5386.4	5183.1	5217.7	5238.4	5491.1	5888.9	6387.3
27.5°	6698.3	6667.7	6496.9	6178.1	5808.9	5492.1	5465.4	5483.2	5670.7	5992.5	6507.8
30°	7332.0	7299.4	7143.4	6786.1	6257.0	5811.9	5696.4	5703.3	5797.1	6048.8	6606.5
32.5°	7968.6	7938.0	7763.3	7348.7	6743.7	6155.4	5863.2	5854.3	5873.1	6107.0	6718.0
35°	8614.2	8626.0	8421.7	7962.7	7282.6	6537.4	6060.6	6041.9	6000.4	6226.4	6875.9
37.5°	9305.1	9297.2	9032.7	8553.0	7846.2	6951.9	6343.9	6340.9	6197.8	6452.5	7123.7
40°	9767.1	9772.0	9611.1	9157.1	8415.8	7410.9	6707.1	6700.2	6512.7	6791.0	7448.4
42.5°	9947.7	9980.3	10021.7	9733.5	9012.0	7943.0	7140.5	7130.6	6951.9	7276.7	7830.4
45°	9960.5	10025.7	10282.3	10245.8	9616.0	8552.0	7694.2	7666.6	7538.3	7922.2	8286.5
47.5°	9850.0	9917.1	10343.5	10550.8	10156.0	9194.6	8341.7	8320.0	8209.5	8729.7	8780.0
50°	9608.1	9672.3	10217.2	10699.8	10600.2	9812.5	9088.0	9030.7	8971.5	9662.4	9344.6
52.5°	9155.1	9278.5	10048.4	10735.4	10865.7	10361.3	9872.7	9835.2	9867.7	10646.5	9910.2
55°	8082.1	8220.3	9613.1	10705.8	11062.1	10822.2	10657.4	10655.4	10824.2	11679.0	10517.2
57.5°	7481.0	7578.7	8726.7	10655.4	11295.1	11280.2	11434.2	11453.0	11781.7	12803.3	11152.9
60°	7141.5	7244.1	8277.6	10468.9	11656.3	11872.5	12226.8	12264.4	12754.9	14048.0	11917.9
62.5°	6832.5	6945.0	7999.2	10088.9	12081.7	12719.4	13176.4	13210.0	13785.4	15327.2	12657.2
65°	6304.4	6431.8	7591.6	9839.1	12468.7	13823.9	14383.6	14406.3	14968.9	16667.7	13222.8
67.5°	5558.2	5674.7	6822.6	9287.4	12754.9	15165.4	15988.6	16001.4	16142.6	17614.3	13512.0
70°	4686.6	4731.0	5727.0	8148.3	12416.4	16419.9	17747.5	17750.5	17212.5	18220.3	13464.6
72.5°	3292.9	3397.5	4157.5	6168.2	10670.2	16266.9	18660.6	18694.1	17710.0	17914.4	12388.7
75°	2019.5	2130.1	2607.8	3738.0	6769.3	12793.4	17241.2	17474.1	16777.2	15972.8	10120.4
77.5°	1350.3	1391.8	1701.7	2179.5	3066.8	7360.6	13255.4	13693.6	13937.4	11648.4	6472.2
80°	753.1	832.1	1128.2	1354.3	1364.1	2924.7	7947.9	8050.6	7754.4	4638.2	1996.8
82.5°	398.8	442.2	753.1	795.6	744.3	979.2	2962.2	2965.2	2477.5	1243.7	593.2
85°	309.0	345.5	516.2	485.6	380.0	434.3	977.2	1030.5	843.0	509.3	193.5
87.5°	154.0	191.5	350.4	308.0	149.0	124.4	349.4	373.1	332.6	199.4	70.1
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°	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5	5154.5
2.5°	5167.3	5176.2	5187.1	5175.2	5171.3	5155.5	5128.8	5122.9	5109.1	5110.1	5118.0
5°	5212.7	5227.5	5221.6	5176.2	5121.9	5045.9	4966.9	4899.8	4855.4	4852.4	4849.5
7.5°	5299.6	5309.5	5263.1	5133.8	4981.7	4806.0	4640.2	4495.1	4407.3	4385.6	4380.6
10°	5435.8	5433.8	5306.5	5045.9	4742.9	4429.0	4162.5	3961.1	3843.7	3809.1	3800.2
12.5°	5587.8	5565.1	5321.3	4886.0	4405.3	3970.0	3632.4	3408.4	3286.0	3246.5	3236.6
15°	5744.8	5688.5	5284.8	4647.1	3990.7	3475.5	3121.1	2913.8	2847.7	2826.0	2822.0
17.5°	5890.8	5782.3	5180.1	4323.4	3517.9	2982.9	2706.5	2623.6	2639.4	2668.1	2669.0
20°	6034.0	5845.4	5012.3	3914.7	3019.5	2577.2	2483.5	2544.7	2619.7	2677.9	2685.8
22.5°	6175.1	5889.9	4796.2	3442.9	2573.3	2349.2	2415.4	2526.9	2612.8	2675.9	2686.8
25°	6293.6	5900.7	4498.1	2939.5	2263.4	2263.4	2382.8	2488.4	2573.3	2635.5	2646.3
27.5°	6337.0	5827.7	4077.6	2473.6	2107.4	2223.9	2337.4	2425.2	2497.3	2563.4	2575.3
30°	6353.8	5692.4	3592.0	2099.5	2043.2	2181.4	2276.2	2351.2	2419.3	2481.5	2492.4
32.5°	6356.7	5529.6	3076.7	1887.3	1998.8	2137.0	2200.2	2266.3	2339.4	2364.0	2368.0
35°	6375.5	5337.1	2533.8	1778.7	1957.4	2095.6	2145.9	2193.3	2074.8	2083.7	2091.6
37.5°	6429.8	5146.6	2079.8	1717.5	1930.7	2073.8	2134.0	1962.3	1869.5	1847.8	1844.8
40°	6531.4	4943.3	1743.2	1668.2	1920.8	2084.7	2058.0	1832.0	1672.1	1552.7	1534.9
42.5°	6672.6	4724.1	1528.0	1635.6	1927.7	2137.0	1952.4	1706.6	1441.1	1364.1	1354.3
45°	6831.5	4494.1	1411.5	1612.9	1951.4	2177.5	1930.7	1539.8	1333.5	1275.3	1270.4
47.5°	6985.5	4212.8	1351.3	1603.0	1984.0	2144.9	1838.9	1488.5	1282.2	1251.6	1254.6
50°	7162.2	3959.1	1314.8	1592.1	2012.6	2124.2	1735.3	1461.9	1262.5	1300.0	1339.5
52.5°	7311.2	3696.6	1282.2	1570.4	2023.5	2087.7	1708.6	1466.8	1262.5	1334.5	1372.0
55°	7487.9	3498.2	1244.7	1525.0	2002.8	1984.0	1689.9	1496.4	1277.3	1231.9	1235.8
57.5°	7715.9	3433.0	1203.2	1454.0	1933.7	1833.0	1681.0	1525.0	1268.4	1239.8	1249.6
60°	8031.8	3502.1	1186.5	1361.2	1826.1	1714.5	1682.0	1510.2	1206.2	1156.8	1157.8
62.5°	8332.9	3579.1	1185.5	1302.9	1693.8	1608.9	1659.3	1461.9	1174.6	1146.0	1156.8
65°	8431.6	3501.1	1138.1	1237.8	1544.8	1482.6	1617.8	1410.5	1150.9	1107.5	1105.5
67.5°	8299.3	3259.3	1042.3	1132.2	1374.0	1335.5	1563.5	1349.3	1113.4	1077.9	1072.0
70°	7906.4	2719.4	923.9	993.0	1179.5	1169.7	1477.6	1278.3	1063.1	1032.5	1006.8
72.5°	6849.3	1937.6	778.8	826.2	960.4	992.0	1359.2	1185.5	992.0	925.9	886.4
75°	5625.3	1434.2	639.6	649.5	729.4	815.3	1196.3	1076.9	908.1	795.6	765.0
77.5°	3444.9	877.5	509.3	513.3	523.1	650.5	985.1	955.5	801.5	663.3	641.6
80°	1115.4	478.7	368.2	386.9	357.3	476.8	762.0	813.3	688.0	554.7	531.0
82.5°	424.4	279.3	248.7	261.6	247.8	319.8	555.7	651.5	563.6	456.0	371.1
85°	205.3	157.9	147.1	164.8	153.0	163.9	355.3	479.7	427.4	297.1	276.4
87.5°	73.0	70.1	56.3	76.0	65.1	58.2	108.6	241.8	282.3	204.3	182.6
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)