

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: P317673

Luminaire Tested: **GAN-SA9A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317673
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-SA9A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35623 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

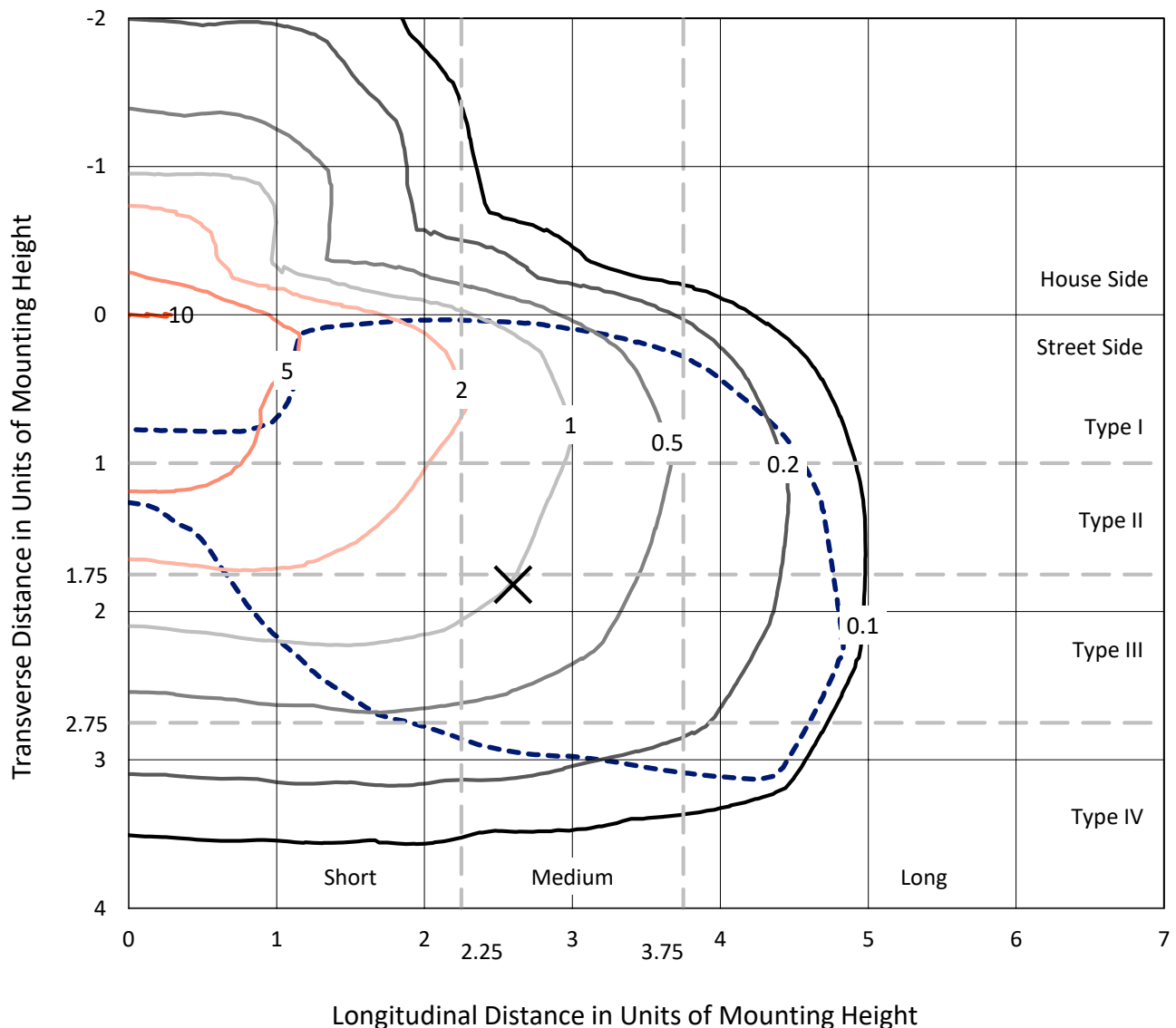
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

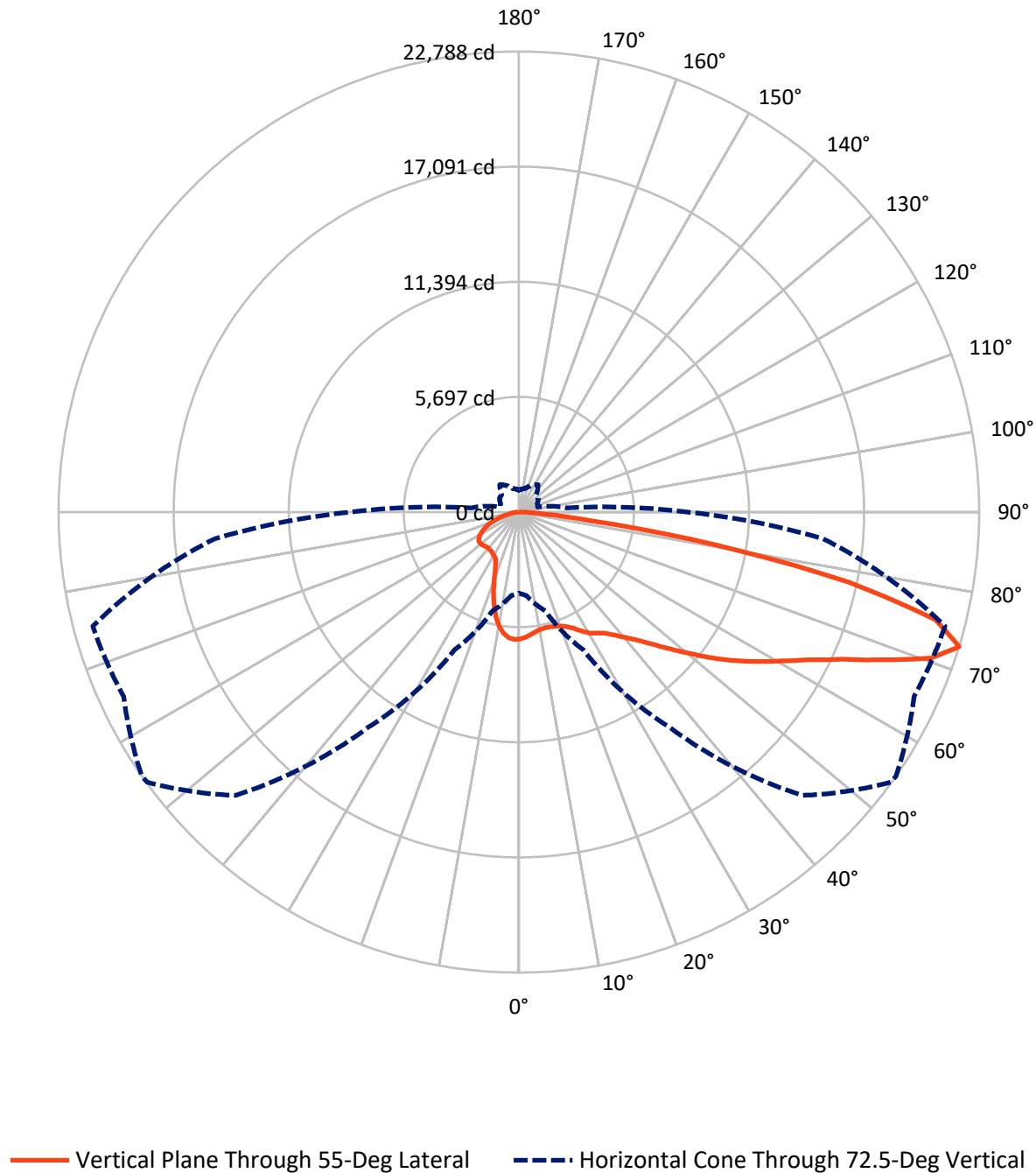
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	6621.2	0.0	6621.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29001.8	0.0	29001.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	35623.0	0.0	35623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	1.6
10°-20°	1513.7	4.2
20°-30°	2495.7	7.0
30°-40°	3691.8	10.4
40°-50°	5152.9	14.5
50°-60°	6709.3	18.8
60°-70°	8245.5	23.1
70°-80°	6463.5	18.1
80°-90°	782.2	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°	35623.0	100.0
0°-180°	35623.0	100.0

Coefficient of Utilization



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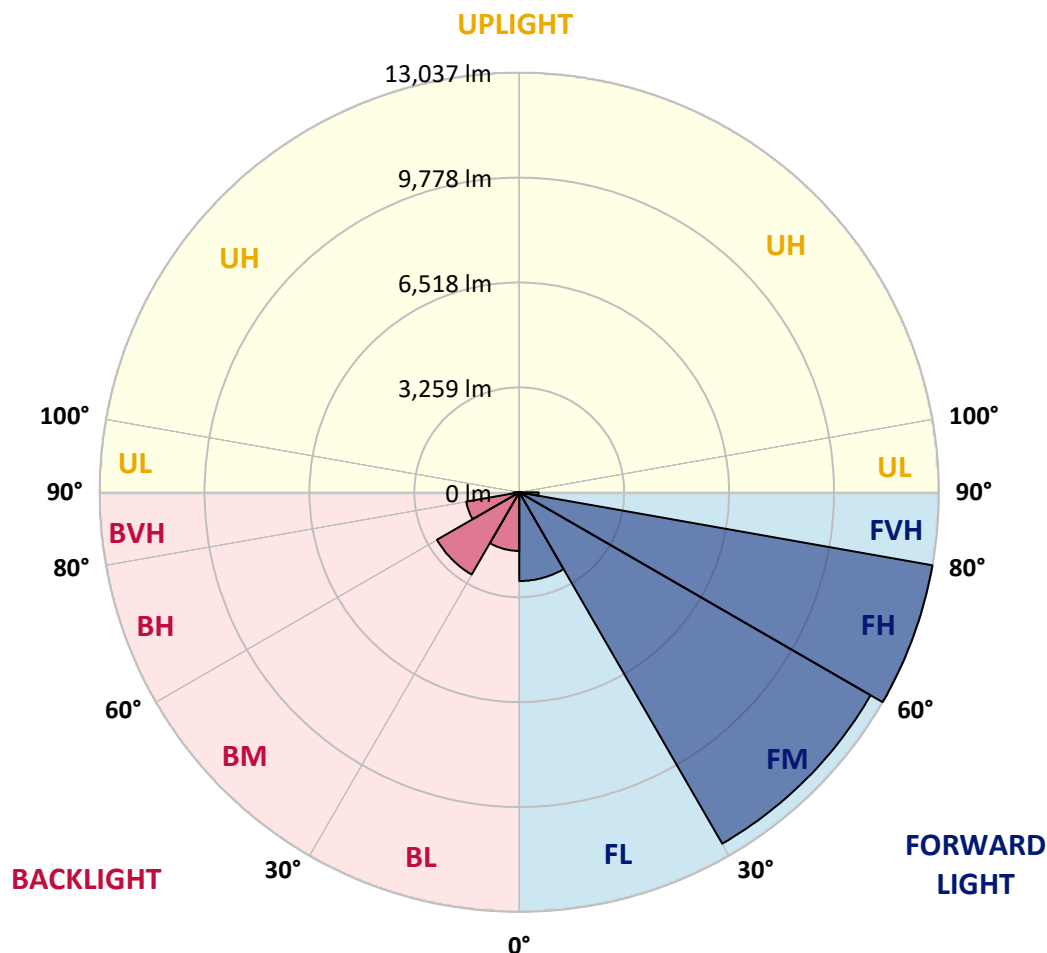
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2756.2	7.7			
FM	(30°-60°)	12604.1	35.4			
FH	(60°-80°)	13036.8	36.6			G5
FVH	(80°-90°)	604.7	1.7			G4/750
BL	(0°-30°)	1821.8	5.1	B3/2500		
BM	(30°-60°)	2949.8	8.3	B3/5000		
BH	(60°-80°)	1672.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	177.4	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1
2.5°	6078.6	6064.1	6082.2	6107.5	6135.1	6172.4	6194.1	6203.7	6241.0	6255.5	6286.7
5°	5797.0	5789.8	5819.9	5863.2	5924.6	6011.2	6081.0	6094.2	6192.9	6262.7	6326.4
7.5°	5592.5	5592.5	5627.4	5679.1	5747.7	5864.4	5963.1	5981.1	6148.4	6298.8	6416.7
10°	5430.1	5436.1	5477.0	5538.3	5619.0	5742.9	5874.0	5894.5	6136.3	6383.0	6570.7
12.5°	5321.8	5336.2	5373.5	5428.9	5528.7	5679.1	5845.2	5872.8	6161.6	6503.3	6756.0
15°	5390.4	5414.4	5418.0	5440.9	5496.2	5659.9	5862.0	5890.9	6215.8	6626.0	6966.6
17.5°	5691.2	5699.6	5662.3	5614.1	5587.7	5692.4	5912.5	5942.6	6280.7	6747.6	7168.7
20°	6148.4	6143.6	6062.9	5933.0	5798.2	5815.1	5995.6	6026.8	6368.6	6854.7	7370.8
22.5°	6725.9	6709.1	6585.1	6345.7	6115.9	6019.6	6141.2	6167.6	6500.9	7007.5	7587.4
25°	7426.2	7388.9	7225.2	6904.0	6565.9	6318.0	6360.1	6385.4	6693.4	7178.3	7785.9
27.5°	8164.9	8127.6	7919.5	7530.9	7080.9	6694.6	6662.1	6683.8	6912.4	7304.7	7932.7
30°	8937.4	8897.7	8707.6	8272.0	7627.1	7084.5	6943.7	6952.1	7066.4	7373.2	8053.0
32.5°	9713.5	9676.2	9463.2	8957.9	8220.3	7503.2	7147.0	7136.2	7159.1	7444.2	8189.0
35°	10500.4	10514.8	10265.7	9706.2	8877.2	7968.8	7387.7	7364.8	7314.3	7589.8	8381.5
37.5°	11342.6	11333.0	11010.5	10425.8	9564.3	8474.2	7733.0	7729.4	7554.9	7865.3	8683.5
40°	11905.7	11911.7	11715.6	11162.1	10258.5	9033.7	8175.8	8167.3	7938.7	8278.0	9079.4
42.5°	12125.9	12165.6	12216.1	11864.8	10985.3	9682.2	8704.0	8691.9	8474.2	8870.0	9545.0
45°	12141.5	12220.9	12533.8	12489.3	11721.6	10424.6	9379.0	9345.3	9188.9	9656.9	10100.9
47.5°	12006.8	12088.6	12608.4	12861.0	12379.8	11207.8	10168.3	10141.8	10007.0	10641.1	10702.5
50°	11712.0	11790.2	12454.4	13042.7	12921.2	11961.0	11077.9	11008.1	10935.9	11778.2	11390.7
52.5°	11159.7	11310.1	12248.6	13086.0	13244.9	12630.0	12034.4	11988.7	12028.4	12977.8	12080.2
55°	9851.8	10020.3	11718.0	13049.9	13484.3	13191.9	12991.0	12988.6	13194.3	14236.3	12820.1
57.5°	9119.1	9238.2	10637.5	12988.6	13768.3	13750.2	13937.9	13960.8	14361.4	15606.8	13595.0
60°	8705.2	8830.3	10090.1	12761.2	14208.6	14472.1	14904.1	14949.8	15547.8	17124.0	14527.5
62.5°	8328.6	8465.7	9750.8	12297.9	14727.2	15504.5	16061.6	16102.5	16803.9	18683.4	15428.7
65°	7684.9	7840.1	9253.8	11993.5	15198.9	16850.9	17533.1	17560.8	18246.6	20317.3	16118.1
67.5°	6775.2	6917.2	8316.5	11320.9	15547.8	18486.0	19489.5	19505.1	19677.2	21471.2	16470.7
70°	5712.8	5767.0	6981.0	9932.4	15135.1	20015.3	21633.6	21637.2	20981.5	22209.9	16412.9
72.5°	4013.9	4141.4	5067.9	7518.8	13006.6	19828.8	22746.6	22787.5	21587.9	21836.9	15101.4
75°	2461.8	2596.5	3178.9	4556.5	8251.6	15594.7	21016.4	21300.3	20450.9	19470.2	12336.4
77.5°	1646.0	1696.5	2074.3	2656.7	3738.4	8972.3	16157.8	16692.0	16989.2	14199.0	7889.4
80°	918.0	1014.3	1375.3	1650.8	1662.8	3565.1	9688.2	9813.3	9452.4	5653.9	2434.1
82.5°	486.1	539.0	918.0	969.8	907.2	1193.6	3610.8	3614.4	3020.0	1516.0	723.1
85°	376.6	421.1	629.3	592.0	463.2	529.4	1191.2	1256.1	1027.5	620.9	235.8
87.5°	187.7	233.4	427.1	375.4	181.7	151.6	425.9	454.8	405.5	243.0	85.4
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°	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1	6283.1
2.5°	6298.8	6309.6	6322.8	6308.4	6303.6	6284.3	6251.8	6244.6	6227.8	6229.0	6238.6
5°	6354.1	6372.2	6364.9	6309.6	6243.4	6150.8	6054.5	5972.7	5918.6	5915.0	5911.3
7.5°	6460.0	6472.0	6415.5	6257.9	6072.6	5858.4	5656.3	5479.4	5372.3	5345.8	5339.8
10°	6626.0	6623.6	6468.4	6150.8	5781.4	5398.8	5073.9	4828.5	4685.3	4643.2	4632.3
12.5°	6811.3	6783.7	6486.5	5955.9	5369.9	4839.3	4427.8	4154.7	4005.5	3957.3	3945.3
15°	7002.6	6934.1	6442.0	5664.7	4864.6	4236.5	3804.5	3551.9	3471.2	3444.8	3440.0
17.5°	7180.7	7048.4	6314.4	5270.0	4288.2	3636.1	3299.2	3198.1	3217.4	3252.3	3253.5
20°	7355.2	7125.4	6109.9	4771.9	3680.6	3141.6	3027.3	3101.9	3193.3	3264.3	3273.9
22.5°	7527.2	7179.5	5846.4	4196.8	3136.8	2863.6	2944.2	3080.2	3184.9	3261.9	3275.1
25°	7671.6	7192.8	5483.0	3583.1	2758.9	2758.9	2904.5	3033.3	3136.8	3212.6	3225.8
27.5°	7724.6	7103.7	4970.4	3015.2	2568.8	2710.8	2849.2	2956.3	3044.1	3124.7	3139.2
30°	7745.0	6938.9	4378.5	2559.2	2490.6	2659.1	2774.6	2866.0	2949.1	3024.9	3038.1
32.5°	7748.6	6740.3	3750.4	2300.5	2436.5	2604.9	2681.9	2762.6	2851.6	2881.7	2886.5
35°	7771.5	6505.7	3088.6	2168.2	2386.0	2554.4	2615.8	2673.5	2529.1	2540.0	2549.6
37.5°	7837.7	6273.5	2535.2	2093.6	2353.5	2527.9	2601.3	2392.0	2278.9	2252.4	2248.8
40°	7961.6	6025.6	2124.9	2033.4	2341.4	2541.2	2508.7	2233.1	2038.2	1892.6	1871.0
42.5°	8133.7	5758.5	1862.6	1993.7	2349.9	2604.9	2379.9	2080.3	1756.7	1662.8	1650.8
45°	8327.4	5478.2	1720.6	1966.0	2378.7	2654.3	2353.5	1877.0	1625.5	1554.5	1548.5
47.5°	8515.1	5135.3	1647.2	1954.0	2418.4	2614.6	2241.6	1814.4	1563.0	1525.7	1529.3
50°	8730.4	4826.1	1602.7	1940.8	2453.3	2589.3	2115.2	1781.9	1538.9	1584.6	1632.7
52.5°	8912.1	4506.0	1563.0	1914.3	2466.6	2544.8	2082.7	1788.0	1538.9	1626.7	1672.5
55°	9127.5	4264.2	1517.2	1859.0	2441.3	2418.4	2059.9	1824.1	1556.9	1501.6	1506.4
57.5°	9405.4	4184.7	1466.7	1772.3	2357.1	2234.3	2049.1	1859.0	1546.1	1511.2	1523.3
60°	9790.5	4269.0	1446.3	1659.2	2225.9	2090.0	2050.3	1840.9	1470.3	1410.2	1411.4
62.5°	10157.4	4362.8	1445.0	1588.2	2064.7	1961.2	2022.6	1781.9	1431.8	1396.9	1410.2
65°	10277.8	4267.8	1387.3	1508.8	1883.0	1807.2	1972.1	1719.4	1402.9	1350.0	1347.6
67.5°	10116.5	3973.0	1270.6	1380.1	1674.9	1627.9	1905.9	1644.8	1357.2	1313.9	1306.7
70°	9637.7	3314.8	1126.2	1210.4	1437.8	1425.8	1801.2	1558.1	1295.9	1258.6	1227.3
72.5°	8349.0	2361.9	949.3	1007.1	1170.7	1209.2	1656.8	1445.0	1209.2	1128.6	1080.5
75°	6857.1	1748.3	779.7	791.7	889.2	993.8	1458.3	1312.7	1106.9	969.8	932.5
77.5°	4199.2	1069.6	620.9	625.7	637.7	792.9	1200.8	1164.7	977.0	808.6	782.1
80°	1359.6	583.6	448.8	471.7	435.6	581.1	928.9	991.4	838.6	676.2	647.3
82.5°	517.4	340.5	303.2	318.8	302.0	389.8	677.4	794.1	687.0	555.9	452.4
85°	250.3	192.5	179.3	200.9	186.5	199.7	433.2	584.8	521.0	362.2	336.9
87.5°	89.0	85.4	68.6	92.6	79.4	71.0	132.4	294.8	344.1	249.1	222.6
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)