

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: P318253

Luminaire Tested: **GAN-SA9C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49310 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

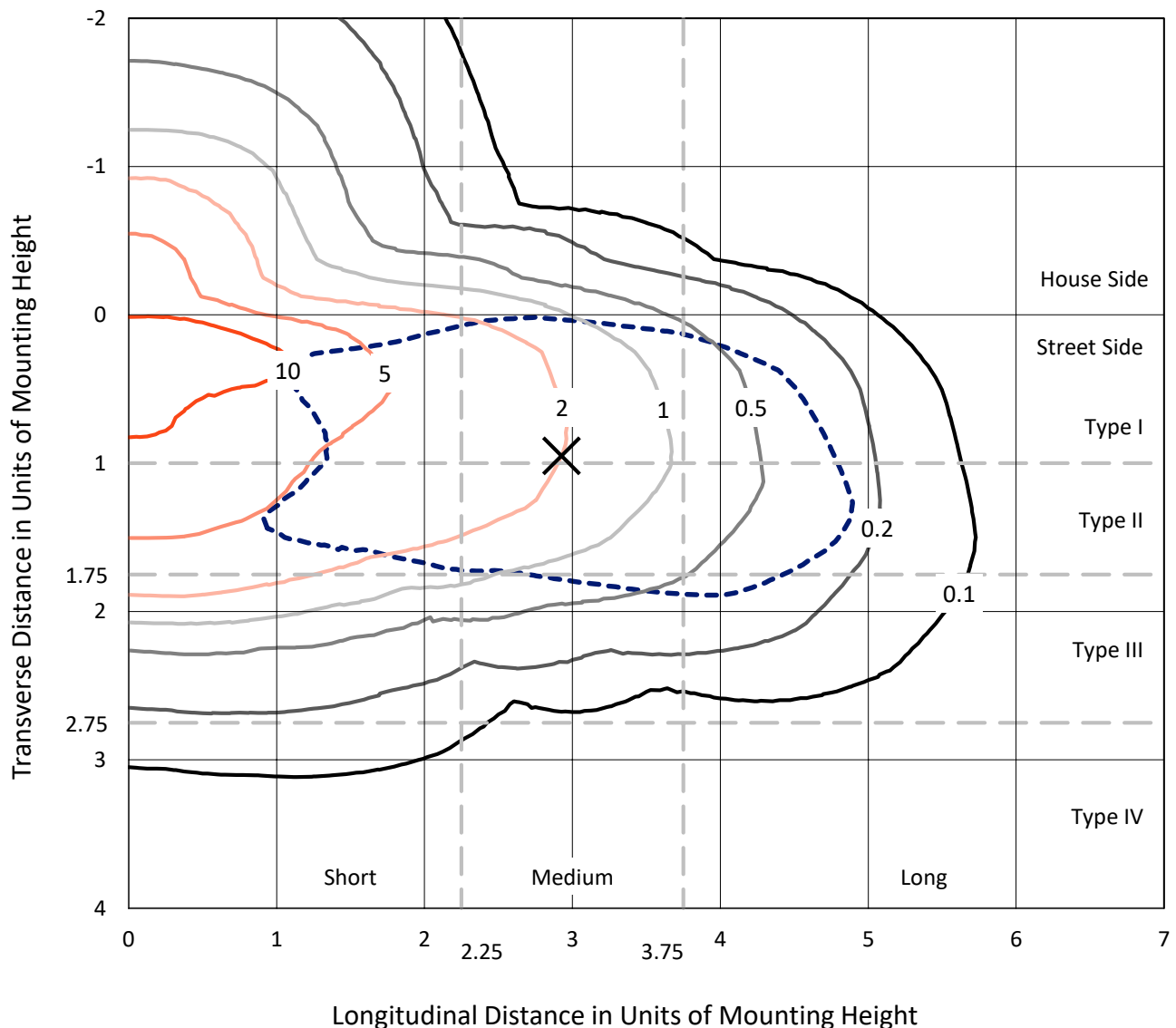
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

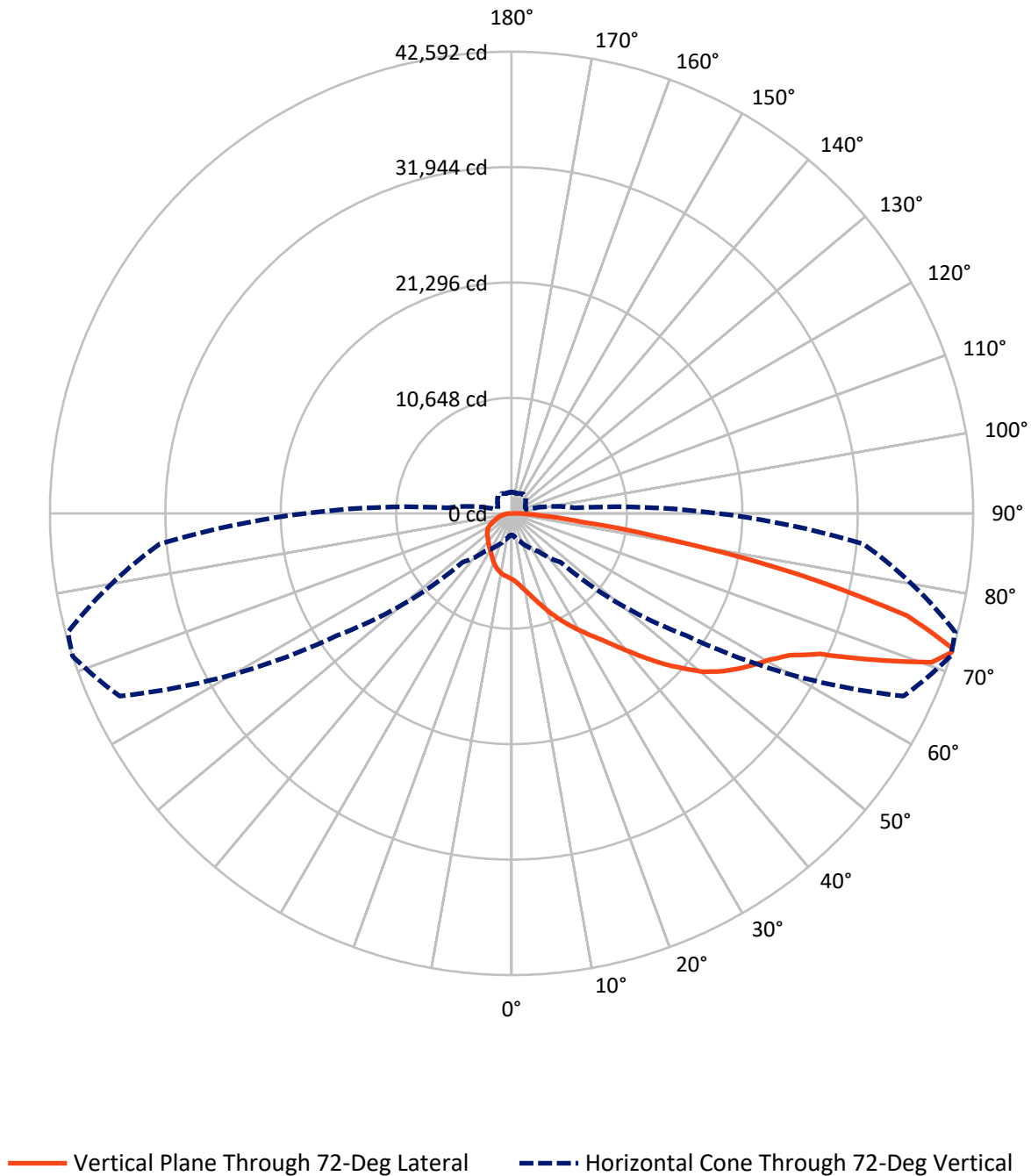
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	9147.3	0.0	9147.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	40162.7	0.0	40162.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	49310.0	0.0	49310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.9	1.2
10°-20°	1964.3	4.0
20°-30°	3442.2	7.0
30°-40°	5103.6	10.4
40°-50°	7464.5	15.1
50°-60°	10271.1	20.8
60°-70°	11434.8	23.2
70°-80°	7748.2	15.7
80°-90°	1273.5	2.6
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°	49310.0	100.0
0°-180°	49310.0	100.0

Coefficient of Utilization



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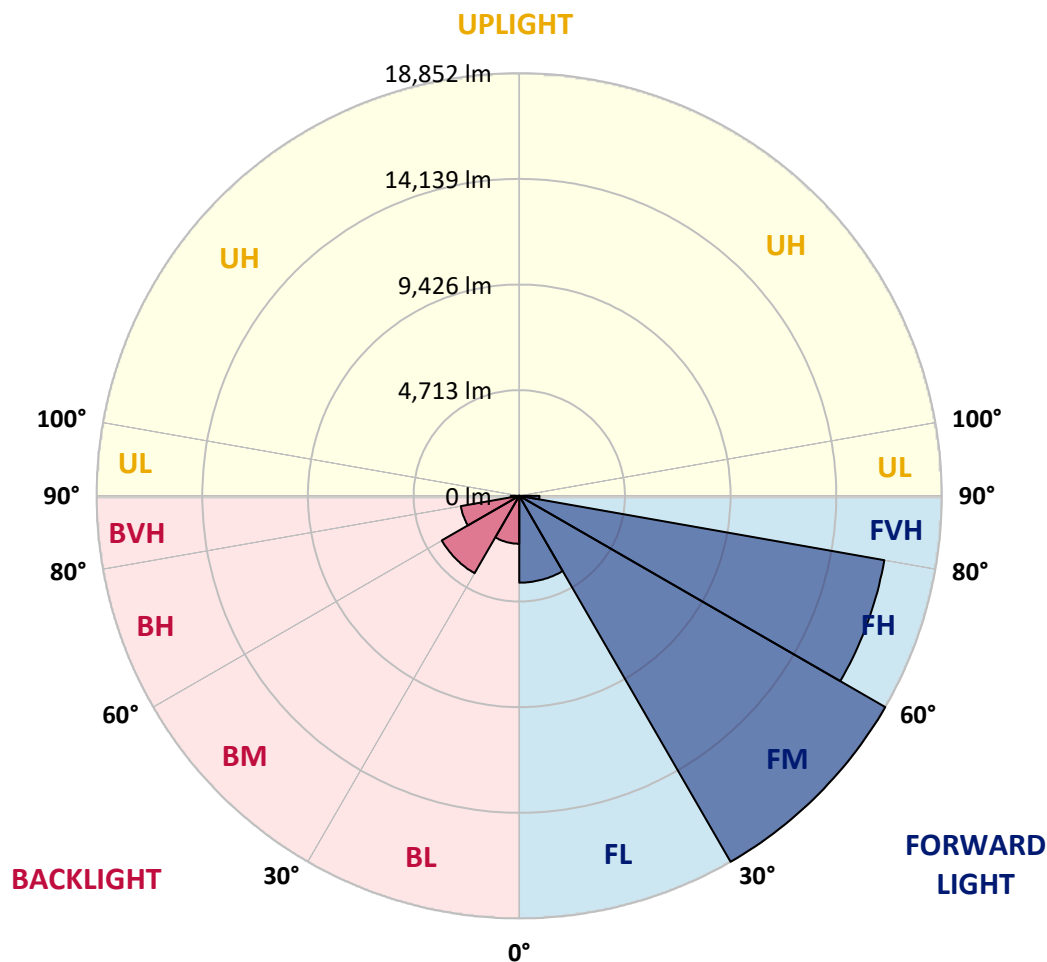
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3876.1	7.9			
FM	(30°-60°)	18851.8	38.2			
FH	(60°-80°)	16536.5	33.5			G5
FVH	(80°-90°)	898.3	1.8			G5
BL	(0°-30°)	2138.3	4.3	B3/2500		
BM	(30°-60°)	3987.4	8.1	B3/5000		
BH	(60°-80°)	2646.4	5.4	B4/5000		G4/5000
BVH	(80°-90°)	375.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4
2.5°	6701.4	6691.2	6655.6	6655.6	6587.7	6529.9	6421.3	6348.3	6261.7	6231.1	6129.2
5°	7350.0	7353.4	7309.2	7278.7	7178.5	7056.3	6871.2	6703.1	6535.0	6467.1	6258.3
7.5°	7895.0	7888.2	7876.3	7850.9	7757.5	7631.8	7382.2	7132.7	6884.8	6782.9	6423.0
10°	8244.8	8260.0	8270.2	8282.1	8243.1	8153.1	7917.1	7613.2	7288.9	7149.6	6619.9
12.5°	8421.3	8448.5	8496.0	8577.5	8642.1	8631.9	8460.4	8137.8	7752.4	7577.5	6866.1
15°	8524.9	8560.6	8635.3	8781.3	8962.9	9066.5	9020.7	8728.6	8299.1	8083.5	7166.6
17.5°	8589.4	8618.3	8733.7	8929.0	9198.9	9474.0	9594.5	9350.1	8917.1	8670.9	7511.3
20°	8633.6	8655.6	8800.0	9029.2	9378.9	9817.0	10153.1	10092.0	9597.9	9278.7	7871.2
22.5°	8732.0	8750.7	8888.2	9119.1	9506.3	10071.6	10691.4	10783.0	10316.1	9954.5	8256.6
25°	9007.1	9007.1	9122.5	9283.8	9647.2	10292.4	11146.4	11552.2	11049.6	10628.5	8613.2
27.5°	9531.7	9526.6	9569.1	9625.1	9900.2	10516.5	11552.2	12231.3	11810.2	11350.1	8959.6
30°	10153.1	10187.1	10192.2	10165.0	10294.1	10796.6	11927.4	12947.8	12576.0	12080.2	9314.4
32.5°	10952.8	10974.9	10949.4	10859.4	10840.8	11193.9	12295.8	13698.3	13404.5	12842.5	9638.7
35°	11968.1	11925.7	11845.9	11662.5	11487.7	11725.3	12716.9	14448.7	14334.9	13764.5	10085.2
37.5°	13056.5	13058.2	12959.7	12543.7	12302.6	12404.5	13297.6	15299.3	15460.6	14861.3	10657.4
40°	13929.2	13975.0	14036.1	13489.4	13177.0	13317.9	14036.1	16285.8	16791.7	16161.8	11402.8
42.5°	14538.7	14591.3	14764.5	14421.5	14097.2	14358.7	14905.4	17338.4	18285.8	17662.7	12275.5
45°	15183.9	15212.7	15335.0	15187.3	14980.1	15569.3	15885.1	18428.5	19866.5	19262.1	13251.7
47.5°	15863.0	15893.6	16019.2	15920.7	15812.1	16700.0	16907.2	19455.7	21381.0	21019.4	14294.2
50°	16701.7	16722.1	16841.0	16662.7	16696.7	17552.4	17820.6	20398.0	22968.5	22598.4	15340.1
52.5°	17846.1	17851.2	18015.9	17854.6	17695.0	18177.2	18606.7	21285.9	24213.0	24038.2	16385.9
55°	18742.6	18796.9	19336.8	19302.9	19211.2	18744.3	19263.8	22131.5	25323.4	25406.6	17496.3
57.5°	18170.4	18382.6	19476.0	20246.9	20997.3	20155.2	20151.8	23084.0	26355.7	26749.6	18717.1
60°	15913.9	16202.6	17813.8	19523.6	21871.7	22610.3	21995.6	24247.0	27398.2	28080.7	20246.9
62.5°	11365.4	11840.8	14024.2	16754.4	20673.0	24236.8	25747.9	26092.6	28815.9	29622.4	22235.0
65°	5745.5	6105.5	7935.7	11224.5	16516.7	23173.9	29826.1	30133.4	31279.5	31996.0	25296.3
67.5°	3490.8	3626.6	4519.7	6243.0	10126.0	18051.5	31157.2	36868.8	36047.0	36427.4	29661.4
70°	2572.2	2672.4	3229.3	4146.1	5823.6	10592.9	27072.2	41675.4	41135.5	41093.1	32887.3
72°	2003.5	2076.5	2568.8	3349.9	4258.2	6355.1	19622.0	39901.2	42592.3	42378.3	32591.9
72.5°	1899.9	1964.4	2412.6	3152.9	4023.9	5760.8	17642.4	38704.2	42487.0	42390.2	32209.9
75°	1495.8	1541.6	1786.1	2438.1	3149.5	3268.4	9667.6	29994.2	37690.6	39257.7	28970.4
77.5°	1237.7	1244.5	1373.6	1774.3	2455.1	2310.8	4748.9	20810.5	26989.0	28712.3	20521.9
80°	1008.5	1017.0	1078.1	1244.5	1857.4	1709.7	2254.7	11966.4	15110.9	15129.5	9759.2
82.5°	803.1	804.8	872.7	910.0	1334.5	1222.5	1292.1	5618.2	6602.9	6351.7	3507.8
85°	565.4	553.5	852.3	747.1	872.7	784.4	713.1	2224.2	2730.1	2611.3	1098.5
87.5°	188.5	195.3	378.6	483.9	509.4	444.8	317.5	852.3	1030.6	1022.1	348.1
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°	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4	6066.4
2.5°	6097.0	6042.6	5962.8	5874.6	5804.9	5733.6	5681.0	5653.8	5623.3	5597.8	5628.4
5°	6161.5	6059.6	5889.8	5723.5	5601.2	5492.5	5414.4	5373.7	5336.3	5310.9	5314.3
7.5°	6266.8	6102.1	5816.8	5574.0	5404.3	5287.1	5207.3	5180.1	5156.4	5149.6	5158.1
10°	6378.8	6136.0	5720.1	5397.5	5203.9	5107.1	5071.5	5090.2	5107.1	5122.4	5139.4
12.5°	6506.2	6166.6	5579.1	5190.3	5025.6	4988.3	5023.9	5105.4	5164.9	5200.5	5222.6
15°	6672.5	6193.8	5416.1	4983.2	4872.8	4915.3	5035.8	5176.7	5280.3	5346.5	5356.7
17.5°	6825.4	6192.1	5207.3	4774.4	4748.9	4872.8	5054.5	5253.1	5392.4	5485.8	5504.4
20°	6983.3	6146.2	4964.5	4570.6	4623.2	4827.0	5063.0	5302.4	5470.5	5579.1	5604.6
22.5°	7131.0	6066.4	4697.9	4385.5	4518.0	4765.9	5030.7	5273.5	5441.6	5529.9	5557.1
25°	7231.1	5927.2	4428.0	4229.3	4424.6	4691.2	4925.5	5120.7	5246.4	5290.5	5297.3
27.5°	7282.1	5745.5	4173.3	4093.5	4327.8	4568.9	4730.2	4827.0	4862.6	4859.2	4852.5
30°	7288.9	5506.1	3954.3	3983.2	4215.8	4388.9	4465.3	4446.7	4400.8	4322.7	4329.5
32.5°	7266.8	5236.2	3770.9	3877.9	4073.1	4169.9	4173.3	4083.3	3961.1	3837.1	3803.2
35°	7273.6	4971.3	3609.6	3759.0	3900.0	3942.4	3903.4	3770.9	3604.5	3444.9	3411.0
37.5°	7348.3	4740.4	3470.4	3621.5	3708.1	3718.3	3662.3	3523.0	3400.8	3244.6	3231.0
40°	7526.6	4575.7	3338.0	3467.0	3516.2	3521.3	3441.5	3343.1	3353.3	3270.1	3268.4
42.5°	7847.5	4504.4	3220.8	3305.7	3336.3	3346.5	3285.3	3222.5	3310.8	3256.5	3237.8
45°	8261.7	4521.4	3122.3	3147.8	3203.8	3251.4	3214.0	3137.6	3171.6	2935.6	2857.5
47.5°	8740.5	4630.0	3044.2	3012.0	3108.8	3198.7	3141.0	3025.6	2905.0	2670.7	2626.6
50°	9300.8	4798.1	2972.9	2877.9	3005.2	3127.4	3069.7	2905.0	2723.4	2609.6	2594.3
52.5°	9884.9	5003.6	2901.6	2730.1	2874.5	3073.1	3044.2	2877.9	2653.7	2541.7	2521.3
55°	10547.0	5210.7	2811.6	2558.7	2733.5	3047.6	3032.4	2779.4	2601.1	2538.3	2523.0
57.5°	11370.5	5446.7	2692.8	2380.4	2601.1	2956.0	2908.4	2720.0	2546.8	2499.2	2494.1
60°	12443.5	5794.8	2521.3	2190.2	2439.8	2815.0	2804.8	2633.4	2460.2	2426.2	2419.4
62.5°	14053.1	6370.3	2285.3	2000.1	2259.8	2575.6	2669.0	2516.2	2368.5	2366.8	2370.2
65°	16548.9	7236.2	2028.9	1833.7	2078.2	2373.6	2511.1	2395.7	2275.1	2309.1	2314.2
67.5°	19442.1	7954.4	1777.6	1670.7	1893.1	2181.7	2368.5	2275.1	2151.2	2239.5	2241.2
70°	20404.8	7312.6	1556.9	1509.4	1701.2	1996.7	2214.0	2142.7	2017.0	2105.3	2096.8
72°	18988.7	5903.4	1414.3	1387.1	1556.9	1843.9	2076.5	2018.7	1894.8	1954.2	1932.2
72.5°	18542.2	5628.4	1378.7	1356.6	1517.9	1804.8	2040.8	1988.2	1864.2	1915.2	1894.8
75°	16540.5	4888.1	1185.1	1190.2	1324.3	1614.7	1840.5	1823.5	1696.2	1701.2	1694.5
77.5°	11997.0	3584.2	998.3	1032.3	1127.4	1419.4	1638.4	1628.2	1489.0	1463.5	1458.5
80°	5567.2	1828.6	813.3	828.6	927.0	1186.8	1397.3	1383.7	1271.7	1239.4	1220.8
82.5°	1906.7	869.3	611.2	621.4	718.2	955.9	1212.3	1203.8	1110.4	1047.6	1008.5
85°	680.8	433.0	427.9	417.7	512.8	752.1	1056.1	1010.2	872.7	743.7	740.3
87.5°	220.7	185.1	220.7	219.0	298.8	509.4	767.4	653.7	633.3	526.3	516.1
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)