

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: P317543

Luminaire Tested: **GAN-SA9D-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72265 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

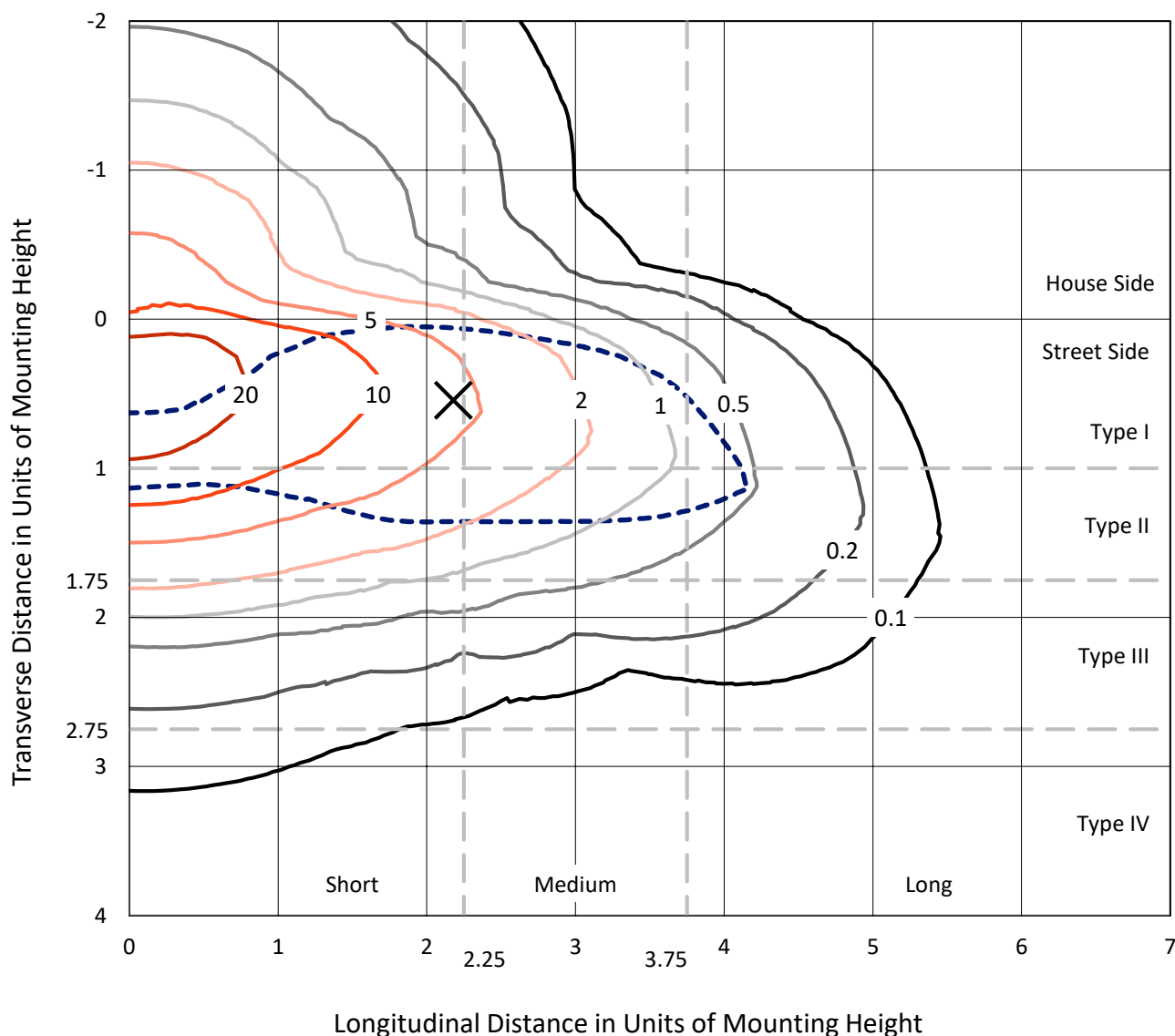
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

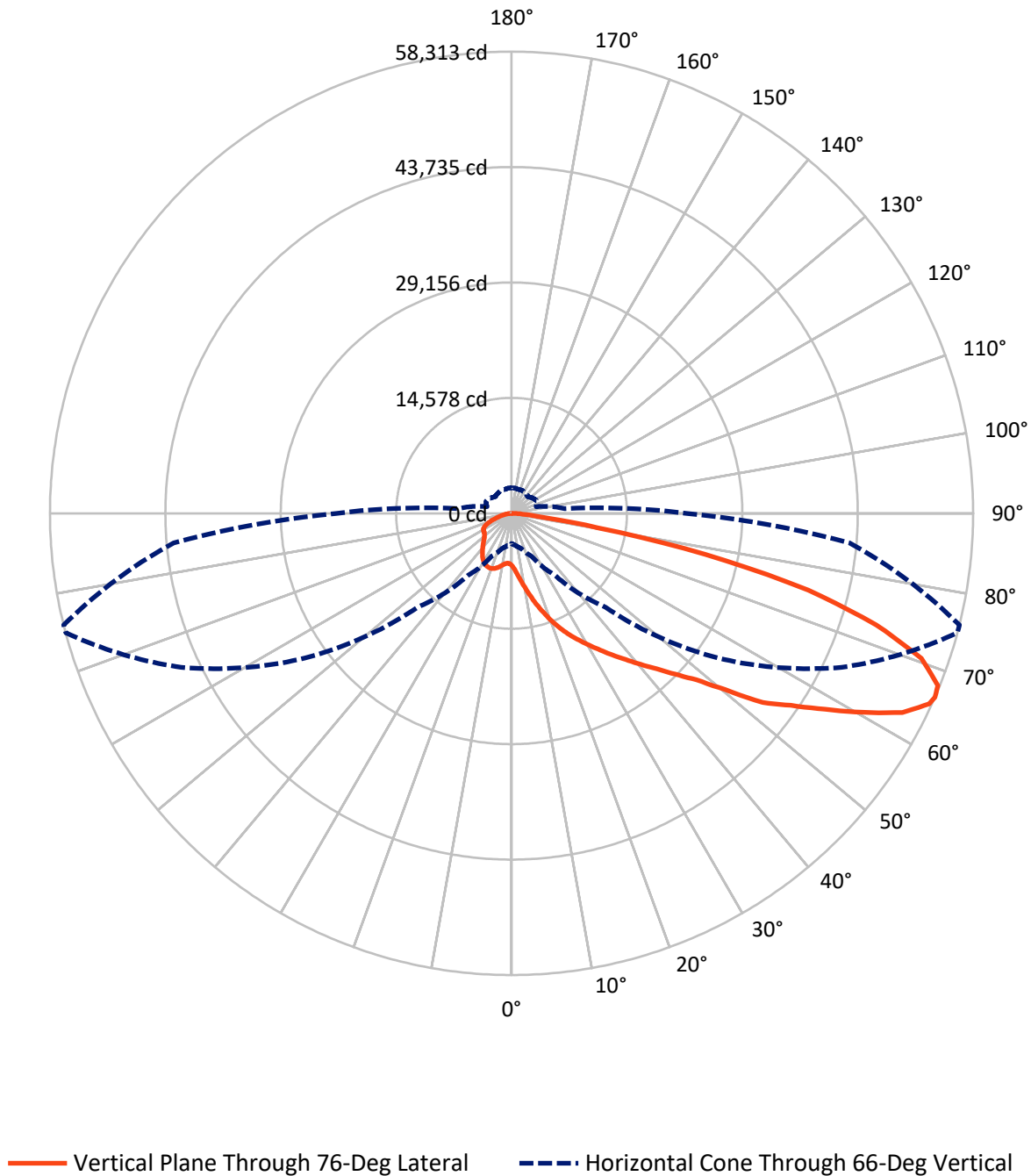
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12159.7	0.0	12159.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	60105.3	0.0	60105.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	72265.0	0.0	72265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.0	1.1
10°-20°	3151.4	4.4
20°-30°	6124.0	8.5
30°-40°	9995.8	13.8
40°-50°	13656.6	18.9
50°-60°	15907.2	22.0
60°-70°	14261.1	19.7
70°-80°	7207.0	10.0
80°-90°	1163.8	1.6
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°	72265.0	100.0
0°-180°	72265.0	100.0

Coefficient of Utilization



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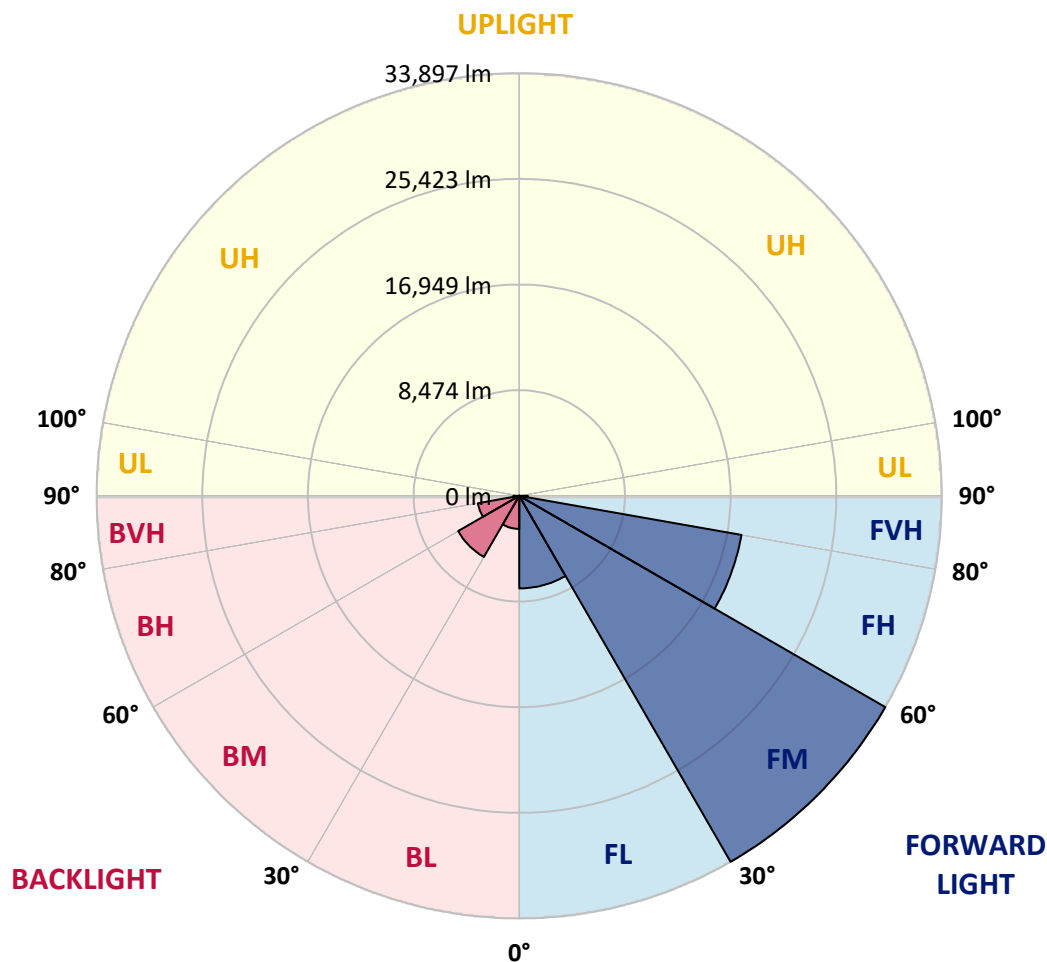
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7421.4	10.3			
FM	(30°-60°)	33897.3	46.9			
FH	(60°-80°)	18099.3	25.0			G5
FVH	(80°-90°)	687.3	1.0			G4/750
BL	(0°-30°)	2652.1	3.7	B4/5000		
BM	(30°-60°)	5662.3	7.8	B4/8500		
BH	(60°-80°)	3368.8	4.7	B4/5000		G4/5000
BVH	(80°-90°)	476.5	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4
2.5°	8760.8	8628.3	8616.1	8422.2	8378.1	8007.6	7735.3	7450.7	7126.9	7063.1	6808.0
5°	11253.4	11241.1	11071.8	10755.3	10507.6	9874.6	9249.0	8586.6	7860.4	7742.7	7168.6
7.5°	13495.7	13476.1	13346.0	13005.0	12646.9	11869.2	10976.1	9960.5	8782.9	8608.7	7656.8
10°	15198.3	15190.9	15146.8	14896.5	14592.3	13846.5	12860.3	11474.2	9855.0	9617.0	8267.7
12.5°	16513.3	16528.0	16557.4	16469.1	16324.4	15689.0	14678.2	13078.6	10998.2	10762.7	8947.2
15°	17403.8	17448.0	17600.1	17725.2	17801.3	17411.2	16432.3	14719.9	12278.9	11996.7	9700.4
17.5°	17852.8	17901.9	18164.4	18542.2	18890.5	18851.3	18073.6	16285.1	13508.0	13235.6	10510.0
20°	18240.4	18277.2	18571.6	19025.5	19641.3	19913.6	19476.9	17791.5	14854.8	14531.0	11368.7
22.5°	19364.0	19410.6	19499.0	19756.6	20301.2	20801.7	20590.7	19216.8	16088.9	15787.1	12183.2
25°	21532.8	21589.2	21397.8	21179.5	21282.5	21630.9	21670.2	20517.1	17340.0	16999.0	13059.0
27.5°	24145.6	24226.5	23900.2	23338.4	22847.7	22712.8	22666.2	21581.8	18534.8	18139.8	13925.0
30°	26704.4	26844.2	26419.8	25691.1	24790.8	24157.8	23689.2	22624.5	19712.4	19334.6	14742.0
32.5°	29204.3	29147.9	28532.1	27820.6	26765.7	25973.3	24839.8	23743.2	21037.2	20603.0	15554.0
35°	30916.7	30936.3	30364.7	29520.8	28514.9	27906.5	26380.5	24950.2	22389.0	21989.1	16476.5
37.5°	32374.0	32283.2	31635.5	30848.0	29982.0	29721.9	28183.7	26279.9	23853.6	23416.9	17457.8
40°	32859.7	32754.2	32329.8	31763.1	31068.8	31046.7	30173.4	27786.3	25509.6	25077.8	18564.3
42.5°	32565.3	32430.4	32256.2	32101.7	31888.2	31986.4	32042.8	29552.7	27330.0	26846.7	19844.9
45°	31478.5	31274.9	31397.6	31733.7	32197.3	32751.8	33730.7	31508.0	29368.7	28963.9	21348.8
47.5°	29807.8	29623.8	30006.5	30725.3	31986.4	33389.7	35327.8	33666.9	31802.4	31400.0	23490.5
50°	27457.5	27511.5	28058.6	29366.2	31272.4	33684.1	37295.3	36525.0	35340.0	34964.7	26412.4
52.5°	23600.9	23610.7	25151.4	27298.1	30006.5	33531.9	38387.1	40178.0	40170.6	39716.8	29194.5
55°	20019.1	20237.4	21456.7	24309.9	27955.6	32923.5	39150.0	41954.2	43342.8	42810.4	31787.6
57.5°	16520.6	16648.2	17803.7	20669.2	25028.7	31301.9	39932.7	44086.1	46998.2	46662.1	35011.3
60°	12541.4	12737.6	13932.4	16579.5	21285.0	28424.1	40006.3	46311.3	51367.6	51029.0	38610.3
62.5°	8140.1	8478.7	9597.4	12077.7	16756.2	24285.4	38298.7	47766.1	55508.8	55388.6	41804.5
65°	4678.5	4933.6	5711.3	7624.9	11560.0	19089.3	34238.5	47206.7	58057.8	57989.1	42999.3
66°	3822.3	3981.7	4577.9	5959.1	9538.5	16763.5	31878.4	46026.7	58310.5	58312.9	42861.9
67.5°	3056.8	3128.0	3395.4	4266.3	7038.6	13287.2	27661.2	43423.7	57996.4	58082.3	41976.3
70°	2529.4	2566.2	2649.6	2860.6	3841.9	8012.5	19633.9	36659.9	54843.9	54910.2	38519.5
72.5°	2269.3	2291.4	2323.3	2352.7	2710.9	4477.3	11991.8	29327.0	48085.0	48170.9	33252.3
75°	2055.9	2068.1	2063.2	2065.7	2274.2	2853.2	6197.1	21895.9	38880.2	38708.4	25472.8
77.5°	1805.6	1817.9	1793.4	1798.3	2011.7	2193.3	3083.8	15328.3	26238.2	25026.3	14351.9
80°	1526.0	1535.8	1526.0	1543.1	1751.7	1656.0	1793.4	8623.4	11601.7	10973.7	5102.9
82.5°	1153.1	1194.8	1224.2	1292.9	1442.6	1177.6	1199.7	3358.6	3532.8	3363.5	1565.2
85°	505.4	615.8	922.4	988.7	1084.4	706.6	787.5	1369.0	1437.6	1393.5	569.2
87.5°	132.5	144.7	456.3	574.1	601.1	318.9	409.7	623.1	657.5	623.1	188.9
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°	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4	6599.4
2.5°	6673.0	6552.8	6336.9	6145.6	6000.8	5902.7	5804.5	5755.5	5726.0	5696.6	5701.5
5°	6886.5	6643.6	6273.1	6010.6	5863.4	5770.2	5721.1	5701.5	5689.2	5659.8	5659.8
7.5°	7207.8	6864.4	6354.1	6084.2	5968.9	5897.8	5868.3	5858.5	5843.8	5809.5	5814.4
10°	7612.6	7131.8	6523.4	6260.9	6155.4	6076.9	6035.2	6020.4	5993.5	5954.2	5959.1
12.5°	8088.6	7463.0	6746.6	6471.9	6344.3	6238.8	6170.1	6128.4	6081.8	6030.3	6032.7
15°	8608.7	7823.6	6987.0	6660.8	6486.6	6339.4	6229.0	6157.8	6084.2	6020.4	6018.0
17.5°	9136.2	8172.0	7171.0	6763.8	6528.3	6334.5	6184.8	6074.4	5983.6	5905.1	5897.8
20°	9705.3	8486.0	7274.1	6754.0	6449.8	6219.2	6020.4	5883.1	5782.5	5704.0	5691.7
22.5°	10284.3	8780.4	7291.3	6653.4	6275.6	5993.5	5784.9	5632.8	5529.8	5448.8	5419.4
25°	10814.2	9008.6	7220.1	6459.6	6032.7	5728.5	5524.9	5370.3	5286.9	5191.2	5161.8
27.5°	11297.5	9168.0	7077.8	6211.8	5760.4	5461.1	5269.7	5137.2	5046.5	4972.9	4948.3
30°	11731.8	9253.9	6844.8	5917.4	5480.7	5208.4	5046.5	4955.7	4877.2	4784.0	4766.8
32.5°	12143.9	9253.9	6545.5	5596.0	5203.5	4985.1	4889.5	4833.0	4744.7	4653.9	4629.4
35°	12556.1	9197.5	6192.2	5259.9	4948.3	4825.7	4820.8	4754.5	4619.6	4496.9	4465.0
37.5°	12990.3	9082.2	5794.7	4945.9	4739.8	4754.5	4796.2	4649.0	4457.7	4283.5	4236.9
40°	13481.0	8922.7	5382.6	4673.6	4565.6	4722.6	4730.0	4496.9	4124.0	3964.6	3922.9
42.5°	14057.5	8763.3	4999.9	4433.1	4428.2	4627.0	4604.9	4168.2	3944.9	3864.0	3841.9
45°	14815.6	8672.5	4636.8	4205.0	4320.3	4472.4	4391.4	3986.6	3893.4	3846.8	3827.2
47.5°	16010.4	8719.1	4303.1	4023.4	4212.3	4317.8	3994.0	3913.0	3846.8	3790.4	3770.7
50°	17506.9	8692.1	4033.3	3898.3	4089.7	4155.9	3814.9	3817.4	3783.0	3719.2	3689.8
52.5°	18632.9	8481.1	3859.1	3827.2	3981.7	3868.9	3702.1	3724.1	3707.0	3613.7	3581.8
55°	19719.8	8299.6	3770.7	3800.2	3903.2	3510.7	3569.6	3623.6	3606.4	3515.6	3500.9
57.5°	21071.5	8265.2	3716.8	3807.5	3837.0	3331.6	3442.0	3513.2	3500.9	3461.6	3454.3
60°	22727.5	8275.0	3667.7	3819.8	3763.4	3199.1	3321.8	3412.6	3419.9	3412.6	3407.7
62.5°	23637.7	8007.6	3545.0	3785.5	3633.4	3083.8	3196.7	3329.2	3331.6	3346.3	3343.9
65°	22864.9	7207.8	3316.9	3665.3	3415.0	2988.1	3088.7	3233.5	3196.7	3262.9	3262.9
66°	22114.2	6746.6	3204.0	3586.8	3321.8	2951.3	3054.4	3184.4	3137.8	3228.6	3228.6
67.5°	20580.9	5968.9	3000.4	3419.9	3189.3	2899.8	3015.1	3103.4	3039.7	3174.6	3164.8
70°	17779.2	4617.1	2590.7	3042.1	2971.0	2823.8	2961.2	2941.5	2848.3	3054.4	3015.1
72.5°	14989.8	3508.2	2080.4	2546.5	2639.8	2728.1	2885.1	2735.4	2617.7	2762.4	2676.6
75°	11631.2	2637.3	1643.7	1979.8	2230.1	2578.4	2794.3	2497.5	2328.2	2313.5	2266.9
77.5°	6287.9	1810.5	1302.7	1511.2	1771.3	2392.0	2733.0	2242.3	1987.2	1928.3	1891.5
80°	2490.1	1177.6	947.0	1145.7	1238.9	2122.1	2585.8	1945.5	1638.8	1579.9	1523.5
82.5°	1027.9	696.7	610.9	767.9	807.1	1815.5	2320.8	1594.7	1265.9	1751.7	1859.6
85°	441.6	382.7	363.1	397.4	456.3	1273.3	1847.3	1216.8	1366.5	1219.3	969.1
87.5°	132.5	161.9	154.6	152.1	166.8	304.2	983.8	677.1	1003.4	380.3	284.6
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)