

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: P322632

Luminaire Tested: **GAN-SA8A-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26523 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

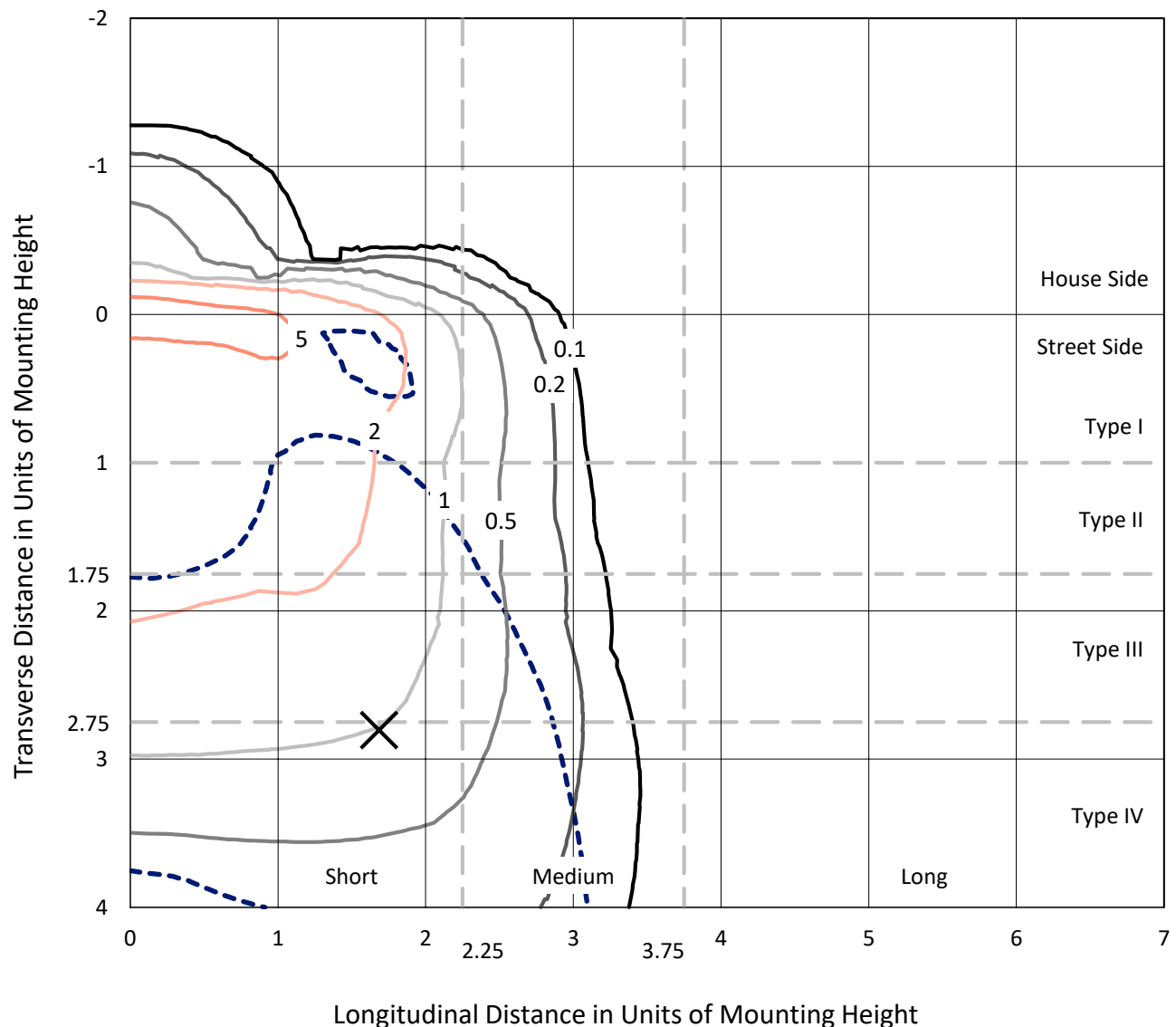
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

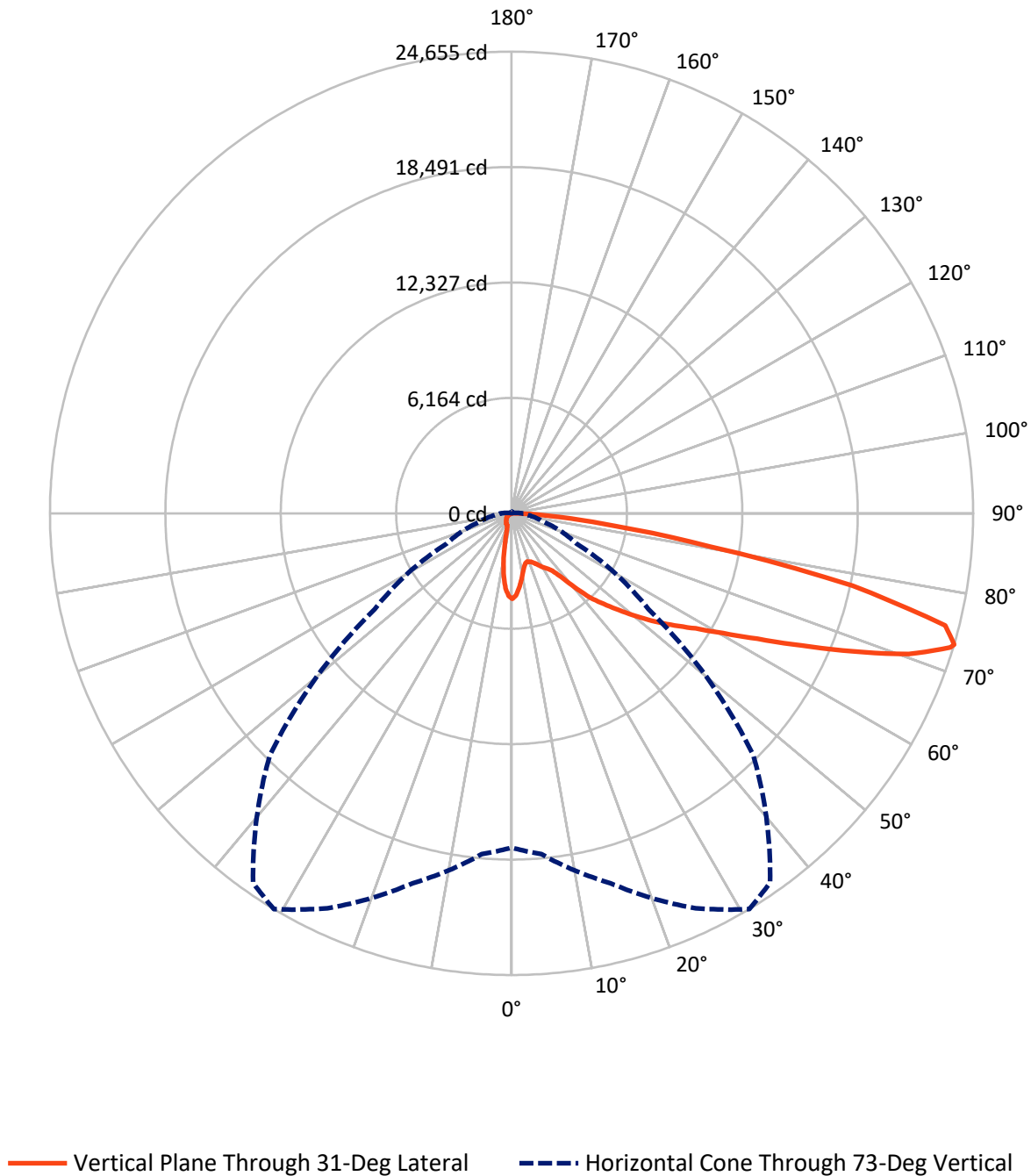
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.7	0.0	2417.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	24105.3	0.0	24105.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	26523.0	0.0	26523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.4
10°-20°	821.5	3.1
20°-30°	1230.9	4.6
30°-40°	1958.4	7.4
40°-50°	3497.1	13.2
50°-60°	5426.5	20.5
60°-70°	7213.8	27.2
70°-80°	5426.2	20.5
80°-90°	570.2	2.1
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°	26523.0	100.0
0°-180°	26523.0	100.0

Coefficient of Utilization



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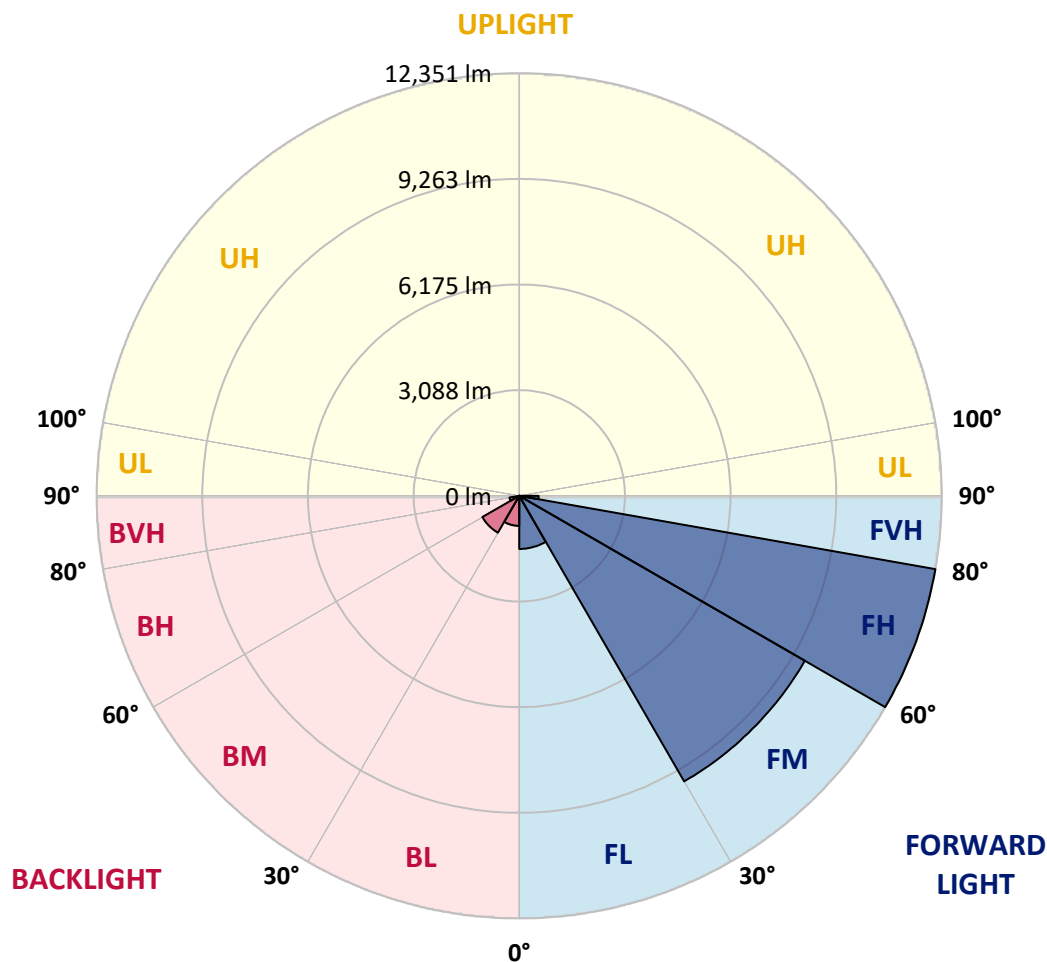
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.6	5.9			
FM	(30°-60°)	9637.5	36.3			
FH	(60°-80°)	12350.8	46.6			G5
FVH	(80°-90°)	565.4	2.1			G4/750
BL	(0°-30°)	879.2	3.3	B2/1000		
BM	(30°-60°)	1244.4	4.7	B2/2500		
BH	(60°-80°)	289.3	1.1	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3
2.5°	4324.5	4342.7	4362.2	4366.1	4398.5	4399.8	4446.5	4481.6	4516.6	4550.4	4562.0
5°	3880.7	3910.5	3945.5	3980.6	4049.4	4076.6	4190.8	4307.7	4419.3	4525.7	4577.6
7.5°	3406.9	3440.7	3490.0	3576.9	3653.5	3706.7	3887.1	4094.8	4302.5	4498.4	4611.4
10°	2974.7	3005.9	3057.8	3149.9	3268.1	3340.7	3583.4	3871.6	4176.6	4473.8	4662.0
12.5°	2699.6	2716.5	2745.0	2843.6	2950.1	3031.8	3317.4	3674.3	4072.7	4472.5	4743.7
15°	2649.0	2654.2	2630.8	2674.9	2758.0	2837.2	3126.6	3514.7	3993.6	4493.3	4850.2
17.5°	2729.4	2726.8	2649.0	2643.8	2710.0	2774.9	3033.1	3404.3	3937.8	4541.3	4987.7
20°	2851.4	2842.4	2707.4	2682.7	2752.8	2813.8	3026.6	3362.8	3917.0	4621.7	5155.2
22.5°	3013.7	2998.1	2786.5	2760.6	2835.9	2899.5	3107.1	3403.0	3935.2	4729.5	5349.9
25°	3214.8	3191.5	2922.8	2894.3	2970.8	3034.4	3251.2	3518.5	3989.7	4860.6	5596.4
27.5°	3442.0	3408.2	3140.9	3066.9	3153.8	3220.0	3443.3	3695.1	4075.3	4999.4	5898.9
30°	3656.1	3612.0	3370.6	3248.6	3355.0	3429.0	3650.9	3905.3	4212.9	5213.6	6312.9
32.5°	3871.6	3822.2	3575.7	3430.3	3526.3	3606.8	3865.1	4194.7	4471.2	5540.6	6863.2
35°	4367.4	4315.4	4013.0	3772.9	3771.6	3817.1	4164.9	4590.6	4812.5	5996.2	7519.9
37.5°	5201.9	5172.0	4883.9	4428.4	4306.4	4255.7	4573.7	5063.0	5303.1	6623.1	8261.0
40°	6115.6	6089.6	5766.5	5353.7	5168.1	5043.6	5160.4	5721.0	5996.2	7388.8	9017.7
42.5°	7147.4	7024.1	6447.9	6324.6	6158.4	6063.7	5958.6	6532.2	6847.6	8222.1	9767.8
45°	8084.5	7876.8	7129.2	6942.3	6904.7	6928.1	6986.5	7622.4	7805.4	9212.3	10515.4
47.5°	8642.6	8479.0	7905.4	7726.3	7715.9	7870.3	8311.6	8854.1	8759.4	10075.4	11173.4
50°	9173.4	9025.4	8549.1	8593.2	8641.3	8851.5	9815.8	10120.8	9630.2	10858.0	11776.9
52.5°	9603.0	9377.2	9128.0	9375.9	9612.1	9950.8	11368.1	11257.8	10248.0	11481.0	12293.5
55°	9850.9	9748.4	9869.1	10118.3	10562.1	11112.4	12833.4	12203.9	10699.7	12049.5	12637.4
57.5°	10759.4	10558.2	10798.3	11013.8	11592.6	12362.3	14088.5	12908.7	11025.5	12401.2	12716.6
60°	11858.7	11696.5	11837.9	12196.2	12977.5	13882.1	15261.7	13483.6	11195.5	12627.0	12511.5
62.5°	13608.2	13394.1	13305.8	13706.9	14742.6	15730.3	16152.1	13882.1	11157.9	12527.1	11808.1
65°	15952.2	15730.3	15335.7	15699.1	17016.5	17713.4	17147.6	13966.5	10898.3	11718.5	10030.0
67.5°	18353.3	18192.3	17854.9	18467.5	19656.4	19880.9	18200.1	13761.4	10062.4	9501.8	7086.4
70°	19939.3	19870.5	20089.8	21444.8	22505.2	22440.3	19165.8	12659.5	7843.1	5843.0	3505.6
72.5°	18795.9	19125.5	20745.3	23202.2	24497.4	23967.9	18670.0	9721.1	4482.9	2247.9	1013.6
73°	17848.4	18270.2	20450.7	23268.3	24654.5	24074.3	18253.3	8922.9	3821.0	1774.2	768.3
75°	12416.8	12934.6	16930.8	21670.7	23919.9	22937.4	15215.0	5461.5	1770.3	786.5	310.2
77.5°	6028.6	6411.5	9322.7	15657.6	18602.5	17921.1	9471.9	2035.1	799.5	491.9	142.8
80°	2250.5	2502.3	4046.8	7969.0	10750.3	11032.0	4166.2	769.6	532.1	395.9	72.7
82.5°	589.2	656.7	1492.6	3553.6	5509.5	5766.5	1313.5	388.1	389.4	325.8	44.1
85°	188.2	215.4	465.9	1595.1	2595.8	2279.1	342.6	188.2	282.9	242.7	24.7
87.5°	23.4	29.9	148.0	375.1	572.4	318.0	53.2	55.8	120.7	135.0	14.3
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°	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3
2.5°	4573.7	4567.2	4568.5	4534.8	4512.7	4468.6	4423.2	4402.4	4380.3	4371.3	4380.3
5°	4597.1	4585.4	4551.7	4447.8	4337.5	4194.7	4061.1	3959.8	3832.6	3797.6	3833.9
7.5°	4633.4	4610.1	4511.4	4299.9	4054.6	3782.0	3475.7	3252.5	3069.5	2951.4	2994.2
10°	4686.6	4642.5	4443.9	4084.4	3645.7	3162.9	2728.1	2389.4	2149.3	2050.6	2046.8
12.5°	4776.2	4693.1	4360.9	3804.1	3146.1	2502.3	1932.5	1565.2	1370.6	1244.7	1242.1
15°	4874.8	4752.8	4255.7	3467.9	2564.6	1792.4	1244.7	965.6	839.7	799.5	794.3
17.5°	4995.5	4821.6	4119.5	3053.9	1955.9	1187.6	812.5	732.0	726.8	722.9	722.9
20°	5147.4	4903.4	3944.2	2580.2	1387.4	793.0	690.5	695.7	698.3	693.1	694.4
22.5°	5323.9	4986.4	3735.3	2071.4	938.4	663.2	660.6	667.1	669.7	667.1	668.4
25°	5529.0	5082.5	3480.9	1538.0	677.5	629.5	636.0	645.0	651.5	651.5	651.5
27.5°	5783.3	5199.3	3174.6	1073.3	585.3	594.4	612.6	629.5	638.6	641.2	641.2
30°	6114.3	5344.7	2807.3	735.9	532.1	547.7	581.4	613.9	630.8	633.4	634.7
32.5°	6532.2	5508.2	2381.6	543.8	486.7	498.4	534.7	589.2	621.7	626.9	626.9
35°	7011.1	5697.7	1923.5	473.7	454.3	458.2	486.7	549.0	606.1	620.4	621.7
37.5°	7535.5	5884.6	1462.7	442.6	427.0	427.0	447.8	501.0	568.5	612.6	617.8
40°	8024.8	5997.5	1025.3	417.9	402.3	402.3	420.5	459.4	523.0	589.2	603.5
42.5°	8476.4	6036.4	713.8	394.6	379.0	382.9	398.4	429.6	477.6	543.8	556.8
45°	8941.1	6029.9	520.4	367.3	355.6	367.3	379.0	402.3	437.4	475.0	477.6
47.5°	9291.5	5975.4	412.7	341.3	333.6	349.1	359.5	375.1	394.6	392.0	392.0
50°	9619.9	5843.0	332.3	306.3	311.5	329.7	334.9	340.0	341.3	316.7	314.1
52.5°	9869.1	5636.7	266.1	268.7	289.4	307.6	302.4	294.6	281.6	251.8	246.6
55°	9952.1	5239.5	209.0	221.9	257.0	280.3	260.9	244.0	219.3	194.7	189.5
57.5°	9801.6	4726.9	170.0	172.6	216.7	236.2	214.1	194.7	167.4	146.7	142.8
60°	9482.3	4157.1	140.2	129.8	167.4	184.3	170.0	150.6	125.9	110.3	109.0
62.5°	8848.9	3549.7	115.5	101.2	127.2	141.5	132.4	118.1	97.3	87.0	85.7
65°	7517.3	2839.8	93.4	81.8	98.6	110.3	102.5	92.1	76.6	68.8	67.5
67.5°	5247.3	1919.6	76.6	67.5	77.9	87.0	80.5	75.3	61.0	59.7	61.0
70°	2530.9	925.4	63.6	54.5	61.0	67.5	64.9	61.0	58.4	67.5	77.9
72.5°	725.5	310.2	50.6	45.4	49.3	53.2	55.8	54.5	63.6	81.8	94.7
73°	558.1	250.5	48.0	42.8	46.7	51.9	54.5	53.2	64.9	83.1	94.7
75°	238.8	120.7	36.3	35.0	38.9	45.4	48.0	48.0	64.9	84.4	90.9
77.5°	107.7	64.9	23.4	27.3	33.7	36.3	40.2	40.2	51.9	64.9	64.9
80°	61.0	35.0	18.2	20.8	24.7	24.7	24.7	22.1	23.4	26.0	28.6
82.5°	38.9	23.4	14.3	16.9	15.6	13.0	10.4	10.4	9.1	10.4	13.0
85°	22.1	13.0	13.0	10.4	6.5	5.2	6.5	5.2	1.3	0.0	1.3
87.5°	13.0	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)