

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: P318142

Luminaire Tested: **GAN-SA8D-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318142
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-SA8D-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61023 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

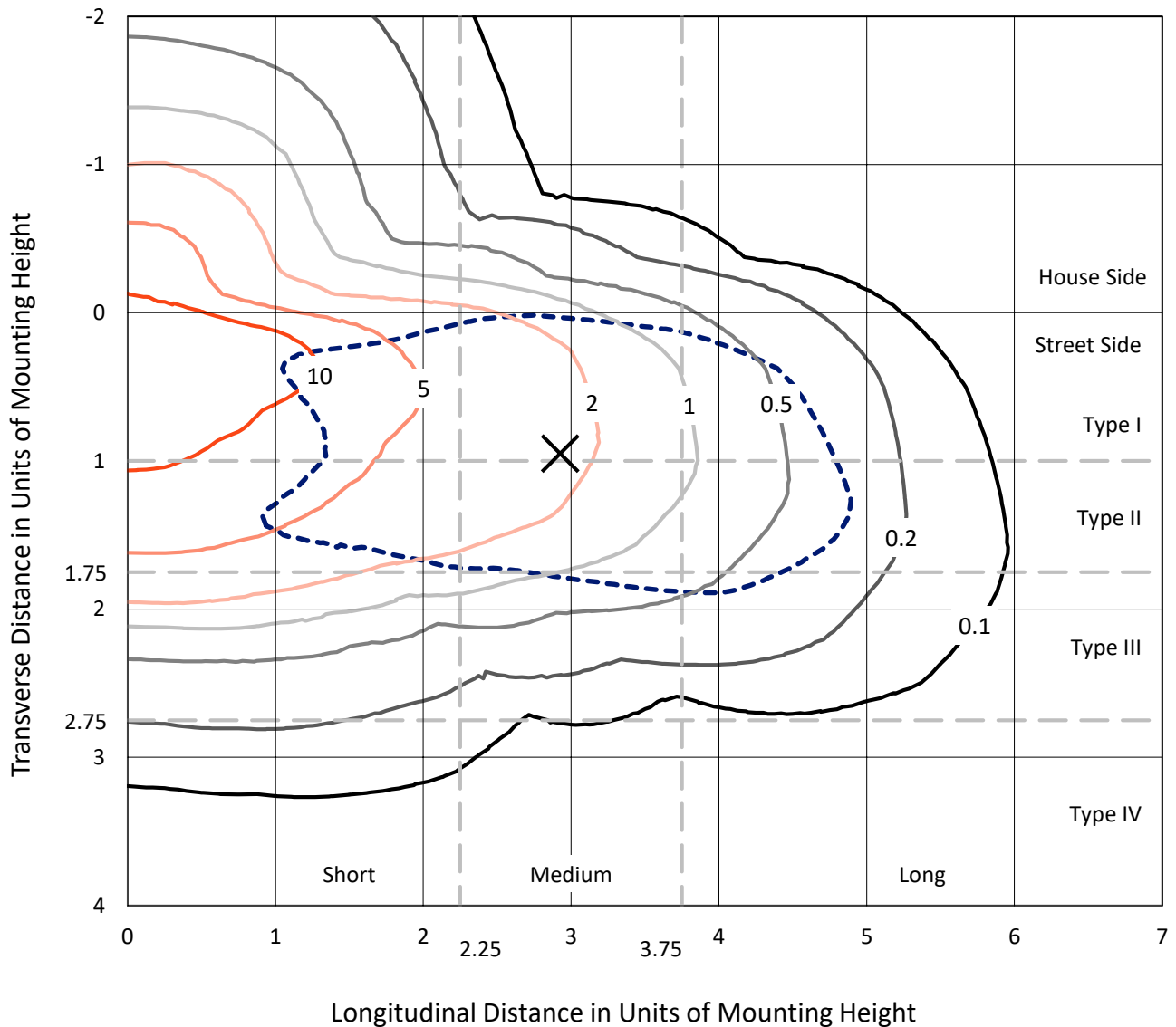
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

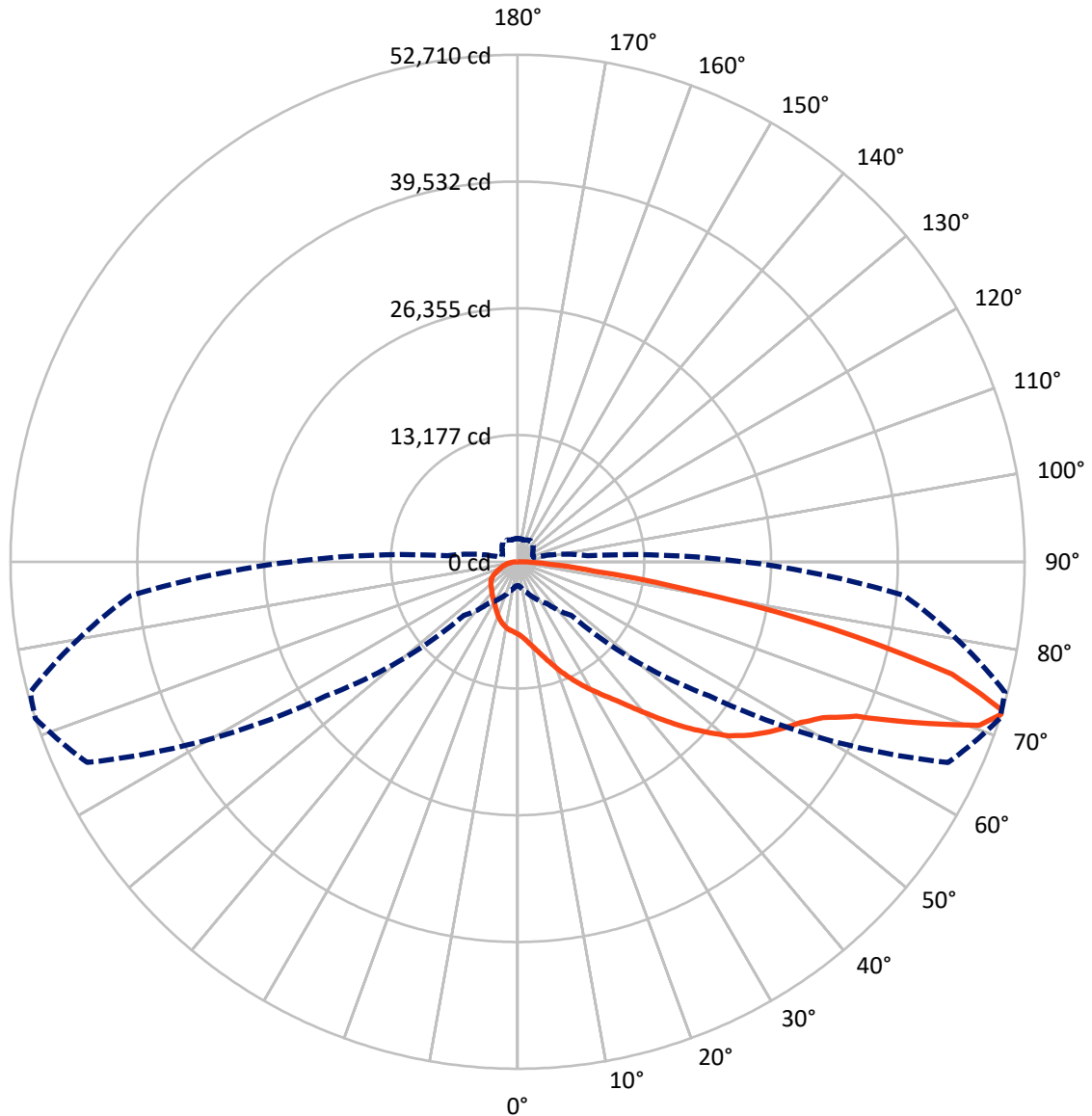
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11320.2	0.0	11320.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	49702.8	0.0	49702.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	61023.0	0.0	61023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.3	1.2
10°-20°	2431.0	4.0
20°-30°	4259.8	7.0
30°-40°	6316.0	10.4
40°-50°	9237.6	15.1
50°-60°	12710.8	20.8
60°-70°	14151.0	23.2
70°-80°	9588.7	15.7
80°-90°	1576.0	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°	61023.0	100.0
0°-180°	61023.0	100.0

Coefficient of Utilization

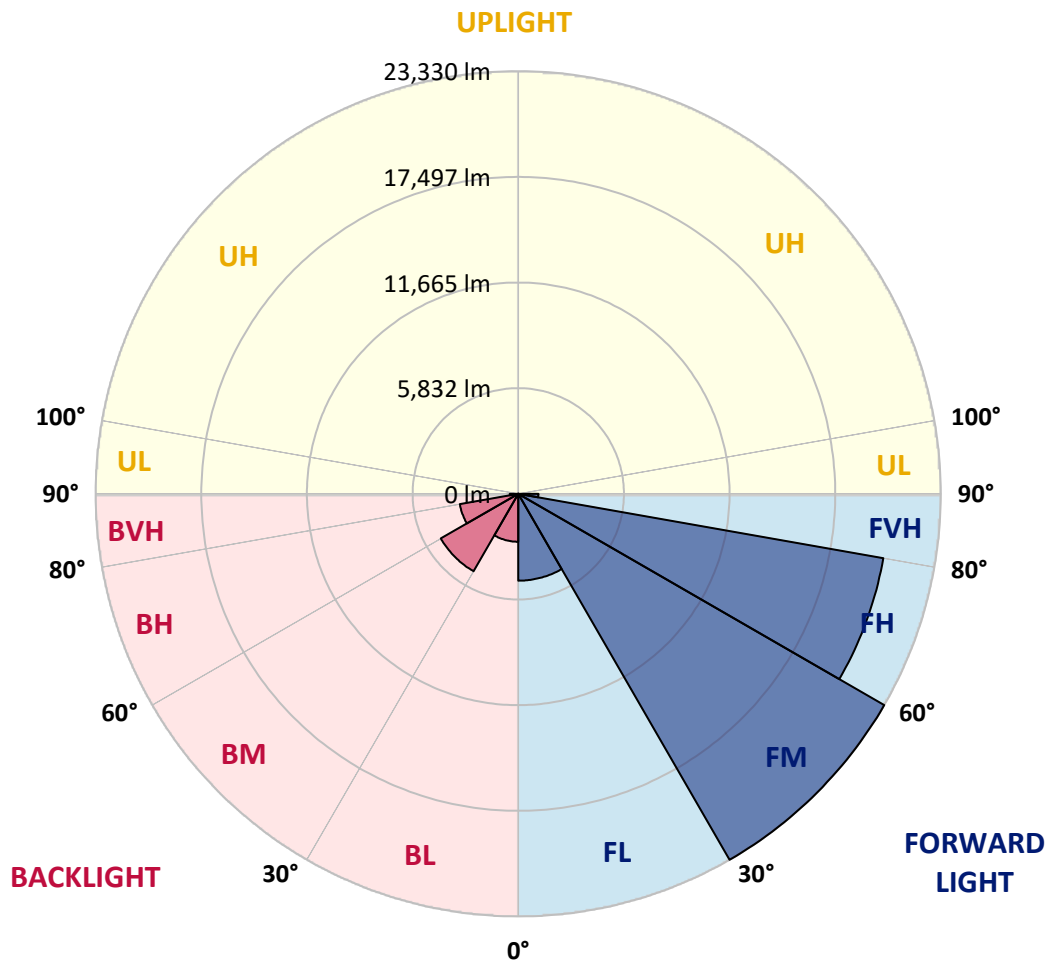


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4796.8	7.9			
FM (30°-60°)	23329.8	38.2			
FH (60°-80°)	20464.5	33.5			G5
FVH (80°-90°)	1111.7	1.8			G5
BL (0°-30°)	2646.2	4.3	B4/5000		
BM (30°-60°)	4934.5	8.1	B3/5000		
BH (60°-80°)	3275.1	5.4	B4/5000		G4/5000
BVH (80°-90°)	464.3	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°	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4
2.5°	8293.3	8280.6	8236.5	8236.5	8152.5	8081.0	7946.6	7856.2	7749.1	7711.2	7585.2
5°	9095.9	9100.1	9045.5	9007.6	8883.7	8732.4	8503.4	8295.4	8087.3	8003.3	7744.9
7.5°	9770.4	9762.0	9747.3	9715.7	9600.2	9444.7	9135.8	8826.9	8520.2	8394.1	7948.7
10°	10203.2	10222.1	10234.7	10249.4	10201.1	10089.7	9797.7	9421.6	9020.3	8848.0	8192.4
12.5°	10421.7	10455.3	10514.2	10615.0	10694.9	10682.3	10470.0	10070.8	9593.9	9377.4	8497.1
15°	10549.9	10594.0	10686.5	10867.2	11092.0	11220.2	11163.4	10802.0	10270.4	10003.6	8869.0
17.5°	10629.7	10665.5	10808.3	11050.0	11384.0	11724.4	11873.6	11571.1	11035.3	10730.6	9295.5
20°	10684.4	10711.7	10890.3	11173.9	11606.8	12148.9	12564.9	12489.3	11877.8	11482.8	9740.9
22.5°	10806.2	10829.3	10999.5	11285.3	11764.4	12464.0	13231.0	13344.4	12766.6	12319.1	10217.9
25°	11146.6	11146.6	11289.5	11489.1	11938.8	12737.2	13794.1	14296.2	13674.3	13153.2	10659.2
27.5°	11795.9	11789.6	11842.1	11911.4	12251.8	13014.5	14296.2	15136.7	14615.6	14046.2	11087.8
30°	12564.9	12606.9	12613.2	12579.6	12739.3	13361.2	14760.6	16023.4	15563.2	14949.7	11526.9
32.5°	13554.5	13581.9	13550.3	13439.0	13415.9	13852.9	15216.6	16952.1	16588.6	15893.1	11928.2
35°	14811.0	14758.5	14659.7	14432.8	14216.4	14510.6	15737.6	17880.8	17740.0	17034.1	12480.9
37.5°	16157.9	16160.0	16038.1	15523.3	15225.0	15351.0	16456.2	18933.5	19133.1	18391.4	13188.9
40°	17237.9	17294.6	17370.2	16693.7	16307.1	16481.4	17370.2	20154.3	20780.4	20000.9	14111.3
42.5°	17992.2	18057.3	18271.6	17847.2	17445.9	17769.5	18446.0	21457.0	22629.4	21858.3	15191.3
45°	18790.6	18826.3	18977.6	18794.8	18538.5	19267.6	19658.4	22805.9	24585.6	23837.6	16399.5
47.5°	19631.1	19668.9	19824.4	19702.5	19568.0	20666.9	20923.3	24077.1	26459.8	26012.3	17689.6
50°	20669.0	20694.3	20841.3	20620.7	20662.7	21721.7	22053.7	25243.3	28424.4	27966.4	18983.9
52.5°	22085.2	22091.5	22295.3	22095.7	21898.2	22494.9	23026.5	26342.2	29964.5	29748.1	20278.2
55°	23194.6	23261.9	23930.0	23888.0	23774.6	23196.7	23839.7	27388.5	31338.7	31441.7	21652.4
57.5°	22486.5	22749.2	24102.3	25056.3	25985.0	24942.8	24938.6	28567.3	32616.2	33103.7	23163.1
60°	19694.1	20051.3	22045.3	24161.2	27067.1	27981.1	27220.4	30006.6	33906.3	34751.0	25056.3
62.5°	14065.1	14653.4	17355.5	20734.2	25583.6	29994.0	31864.0	32290.5	35660.8	36658.8	27516.7
65°	7110.3	7555.7	9820.8	13890.7	20440.0	28678.6	36911.0	37291.3	38709.5	39596.2	31305.1
67.5°	4320.0	4488.1	5593.3	7725.9	12531.3	22339.5	38558.3	45626.5	44609.6	45080.2	36707.1
70°	3183.2	3307.2	3996.4	5131.0	7207.0	13109.1	33502.9	51574.9	50906.7	50854.2	40699.3
72°	2479.4	2569.7	3179.0	4145.6	5269.7	7864.6	24283.0	49379.2	52709.5	52444.8	40333.7
72.5°	2351.2	2431.0	2985.7	3901.8	4979.7	7129.2	21833.1	47897.9	52579.3	52459.5	39861.0
75°	1851.1	1907.8	2210.4	3017.3	3897.6	4044.7	11964.0	37119.0	46643.5	48582.9	35852.0
77.5°	1531.7	1540.1	1699.8	2195.7	3038.3	2859.7	5876.9	25753.8	33399.9	35532.6	25396.6
80°	1248.1	1258.6	1334.2	1540.1	2298.7	2115.9	2790.3	14808.9	18700.3	18723.4	12077.4
82.5°	993.8	995.9	1080.0	1126.2	1651.5	1512.8	1599.0	6952.7	8171.4	7860.4	4341.0
85°	699.7	685.0	1054.8	924.5	1080.0	970.7	882.5	2752.5	3378.7	3231.6	1359.4
87.5°	233.2	241.6	468.6	598.8	630.3	550.5	392.9	1054.8	1275.4	1264.9	430.7
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°	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4	7507.4
2.5°	7545.2	7478.0	7379.3	7270.0	7183.8	7095.6	7030.5	6996.8	6959.0	6927.5	6965.3
5°	7625.1	7499.0	7288.9	7083.0	6931.7	6797.2	6700.6	6650.2	6603.9	6572.4	6576.6
7.5°	7755.4	7551.5	7198.6	6898.1	6688.0	6543.0	6444.2	6410.6	6381.2	6372.8	6383.3
10°	7894.0	7593.6	7078.8	6679.6	6440.0	6320.3	6276.1	6299.3	6320.3	6339.2	6360.2
12.5°	8051.6	7631.4	6904.4	6423.2	6219.4	6173.2	6217.3	6318.2	6391.7	6435.8	6463.1
15°	8257.5	7665.0	6702.7	6166.9	6030.3	6082.8	6232.0	6406.4	6534.6	6616.5	6629.1
17.5°	8446.6	7662.9	6444.2	5908.4	5876.9	6030.3	6255.1	6501.0	6673.3	6788.8	6811.9
20°	8642.0	7606.2	6143.8	5656.3	5721.4	5973.6	6265.6	6561.9	6769.9	6904.4	6935.9
22.5°	8824.8	7507.4	5813.9	5427.3	5591.2	5897.9	6225.7	6526.2	6734.2	6843.5	6877.1
25°	8948.8	7335.1	5479.8	5234.0	5475.6	5805.5	6095.4	6337.1	6492.6	6547.2	6555.6
27.5°	9011.8	7110.3	5164.6	5065.9	5355.8	5654.2	5853.8	5973.6	6017.7	6013.5	6005.1
30°	9020.3	6814.0	4893.6	4929.3	5217.2	5431.5	5526.0	5502.9	5446.2	5349.5	5357.9
32.5°	8992.9	6480.0	4666.7	4799.0	5040.7	5160.4	5164.6	5053.3	4902.0	4748.6	4706.6
35°	9001.3	6152.2	4467.1	4652.0	4826.3	4878.9	4830.6	4666.7	4460.7	4263.2	4221.2
37.5°	9093.8	5866.4	4294.8	4481.8	4588.9	4601.5	4532.2	4359.9	4208.6	4015.3	3998.5
40°	9314.4	5662.6	4130.9	4290.6	4351.5	4357.8	4259.0	4137.2	4149.8	4046.8	4044.7
42.5°	9711.5	5574.4	3985.9	4090.9	4128.8	4141.4	4065.7	3988.0	4097.2	4030.0	4006.9
45°	10224.2	5595.4	3864.0	3895.5	3964.9	4023.7	3977.5	3882.9	3925.0	3632.9	3536.2
47.5°	10816.7	5729.8	3767.4	3727.4	3847.2	3958.6	3887.1	3744.3	3595.1	3305.1	3250.5
50°	11510.1	5937.9	3679.1	3561.5	3719.0	3870.3	3798.9	3595.1	3370.3	3229.5	3210.6
52.5°	12232.9	6192.1	3590.9	3378.7	3557.3	3803.1	3767.4	3561.5	3284.1	3145.4	3120.2
55°	13052.4	6448.4	3479.5	3166.4	3382.9	3771.6	3752.7	3439.6	3219.0	3141.2	3122.3
57.5°	14071.4	6740.5	3332.4	2945.8	3219.0	3658.1	3599.3	3366.0	3151.7	3092.9	3086.6
60°	15399.4	7171.2	3120.2	2710.5	3019.4	3483.7	3471.1	3258.9	3044.6	3002.5	2994.1
62.5°	17391.2	7883.5	2828.2	2475.2	2796.6	3187.4	3303.0	3113.9	2931.1	2929.0	2933.2
65°	20479.9	8955.1	2510.9	2269.2	2571.8	2937.4	3107.6	2964.7	2815.5	2857.6	2863.9
67.5°	24060.3	9843.9	2199.9	2067.5	2342.8	2700.0	2931.1	2815.5	2662.2	2771.4	2773.5
70°	25251.7	9049.7	1926.8	1867.9	2105.4	2471.0	2739.9	2651.7	2496.2	2605.4	2594.9
72°	23499.3	7305.7	1750.3	1716.6	1926.8	2281.9	2569.7	2498.3	2344.9	2418.4	2391.1
72.5°	22946.7	6965.3	1706.1	1678.8	1878.4	2233.5	2525.6	2460.5	2307.1	2370.1	2344.9
75°	20469.4	6049.2	1466.6	1472.9	1638.9	1998.2	2277.7	2256.6	2099.1	2105.4	2097.0
77.5°	14846.7	4435.5	1235.5	1277.5	1395.2	1756.6	2027.6	2015.0	1842.7	1811.2	1804.9
80°	6889.7	2262.9	1006.5	1025.4	1147.2	1468.7	1729.2	1712.4	1573.8	1533.8	1510.7
82.5°	2359.6	1075.8	756.4	769.0	888.8	1182.9	1500.2	1489.7	1374.2	1296.4	1248.1
85°	842.6	535.8	529.5	516.9	634.5	930.8	1306.9	1250.2	1080.0	920.3	916.1
87.5°	273.1	229.0	273.1	271.0	369.8	630.3	949.7	808.9	783.7	651.4	638.8
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)