

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: P322223

Luminaire Tested: **GAN-SA9D-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46034 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

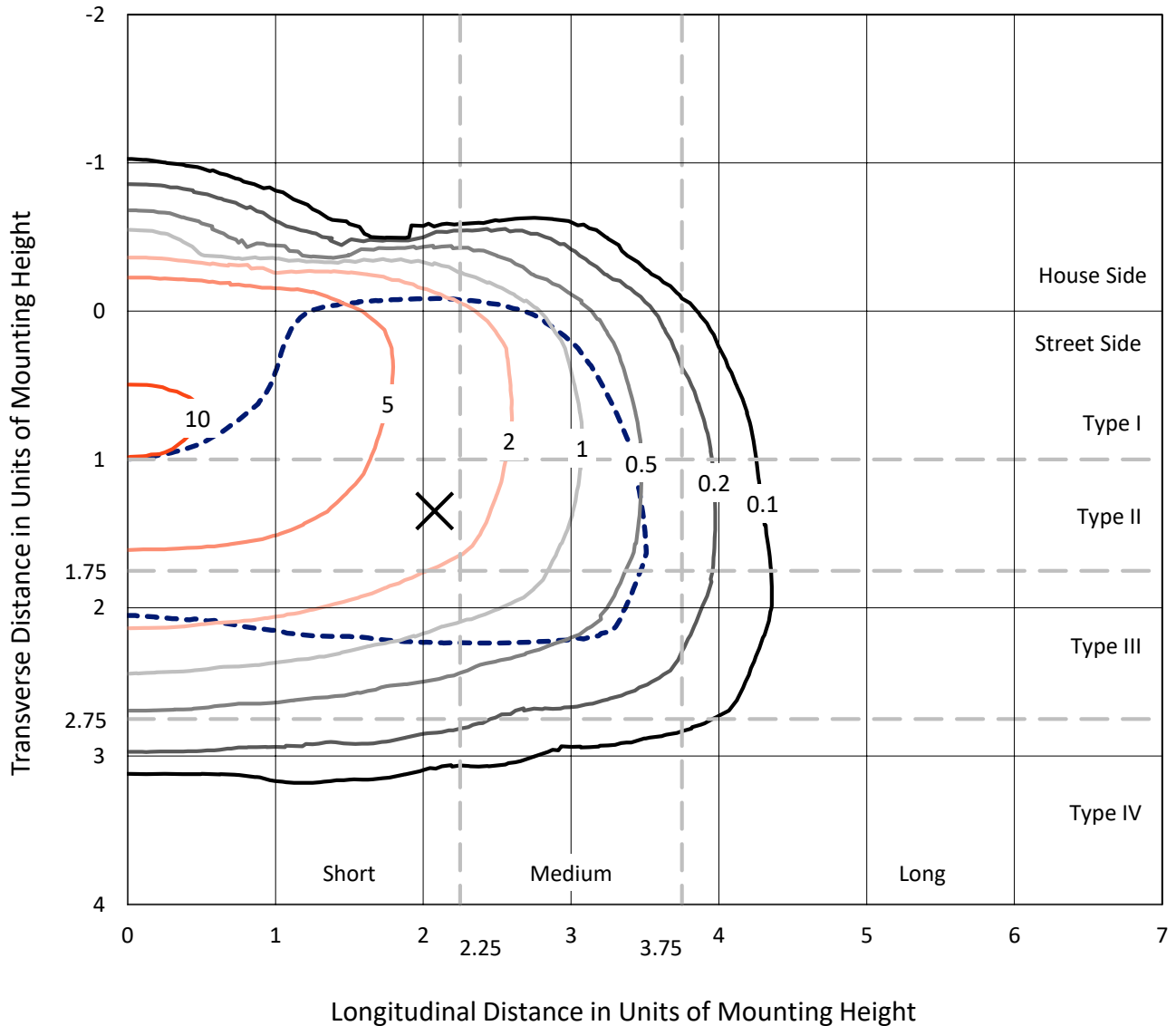
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

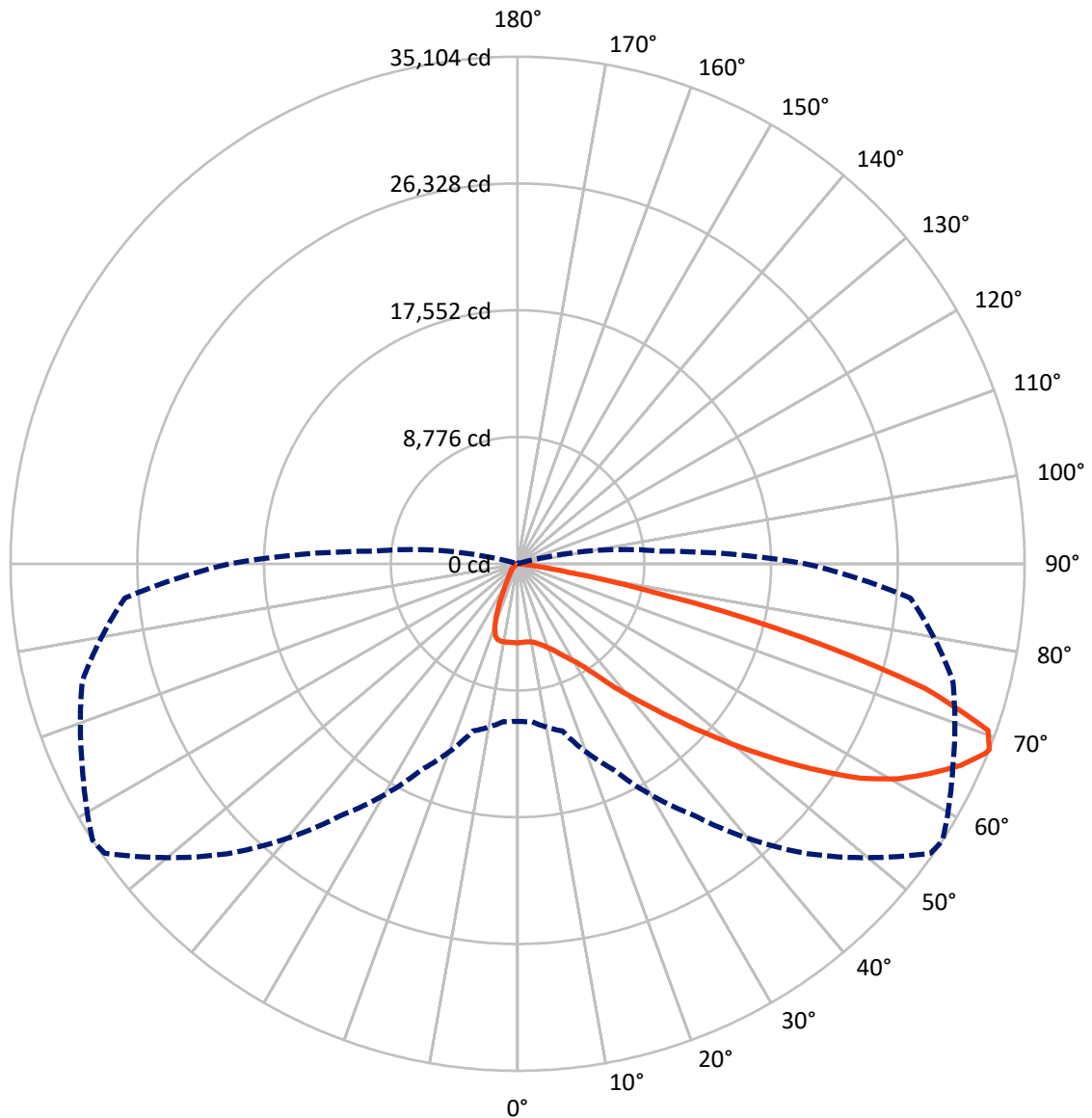
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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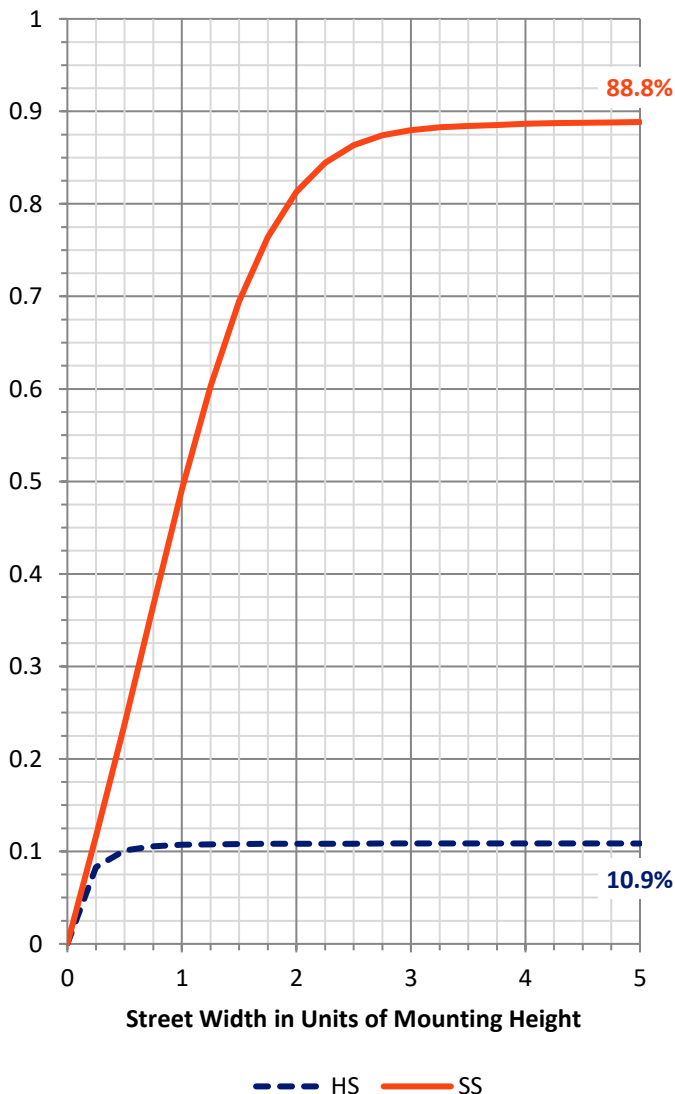
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5047.9	0.0	5047.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	40986.1	0.0	40986.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	46034.0	0.0	46034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.9	1.1
10°-20°	1418.5	3.1
20°-30°	2447.1	5.3
30°-40°	4223.7	9.2
40°-50°	7224.7	15.7
50°-60°	11558.8	25.1
60°-70°	13354.9	29.0
70°-80°	5103.1	11.1
80°-90°	191.3	0.4
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°	46034.0	100.0
0°-180°	46034.0	100.0

Coefficient of Utilization



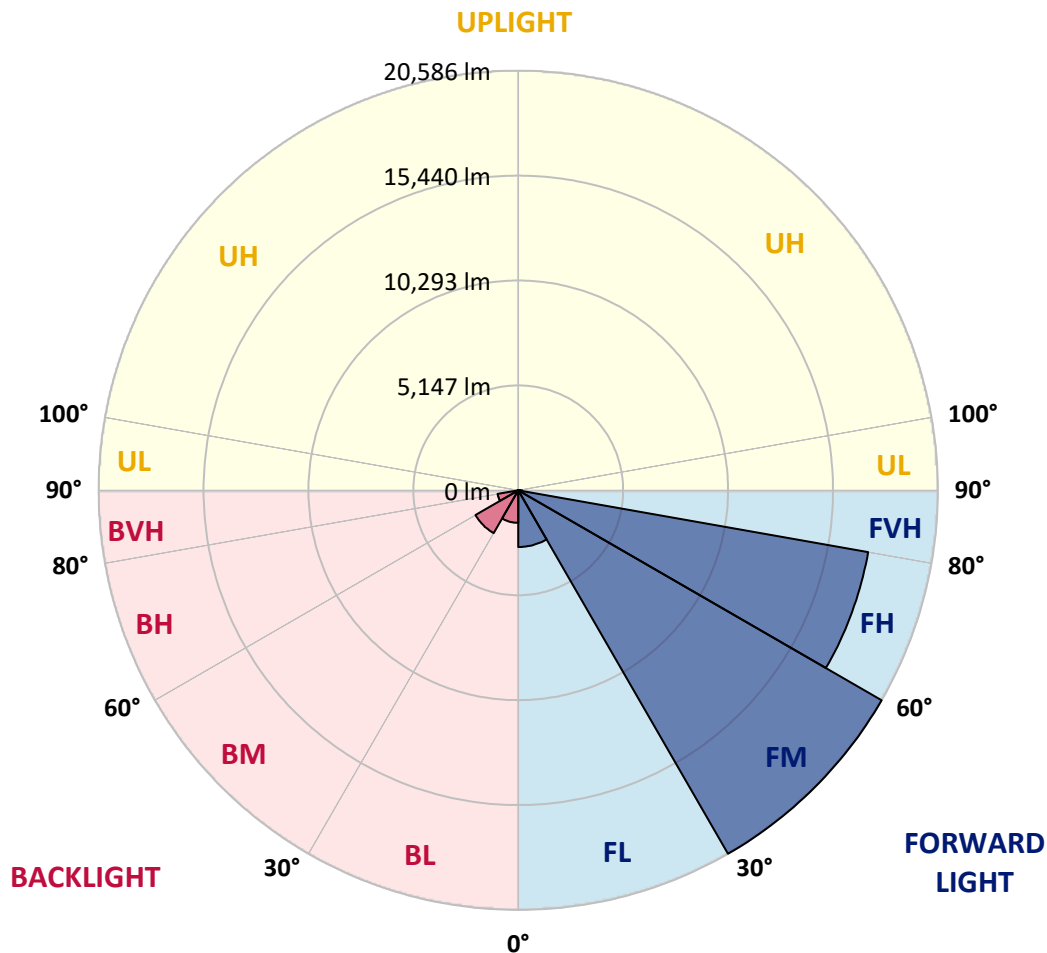
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.3	6.0			
FM (30°-60°)	20586.0	44.7			
FH (60°-80°)	17430.0	37.9			G5
FVH (80°-90°)	187.8	0.4			G2/225
BL (0°-30°)	1595.3	3.5	B3/2500		
BM (30°-60°)	2421.1	5.3	B2/2500		
BH (60°-80°)	1028.0	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1
2.5°	5341.6	5365.6	5383.0	5393.9	5406.9	5435.2	5443.9	5457.0	5463.5	5463.5	5478.8
5°	5130.5	5156.6	5193.6	5224.1	5285.0	5363.4	5420.0	5441.8	5480.9	5515.8	5535.4
7.5°	4934.6	4965.1	5008.6	5080.4	5184.9	5311.2	5428.7	5459.2	5535.4	5609.4	5646.4
10°	4808.3	4832.3	4888.9	4991.2	5128.3	5304.6	5470.1	5507.1	5637.7	5761.7	5831.4
12.5°	4764.8	4786.6	4845.3	4960.7	5130.5	5337.3	5565.8	5620.2	5811.8	5992.5	6090.4
15°	4827.9	4832.3	4895.4	5004.2	5171.8	5417.8	5724.7	5790.0	6031.6	6266.7	6388.6
17.5°	5071.7	5052.1	5084.8	5132.7	5265.4	5524.5	5892.3	5990.3	6312.4	6588.9	6704.2
20°	5681.2	5681.2	5607.2	5476.6	5478.8	5689.9	6118.7	6229.7	6623.7	6943.7	7048.2
22.5°	6723.8	6704.2	6556.2	6236.3	5942.4	5975.0	6395.2	6538.8	6998.1	7339.8	7374.7
25°	7977.6	7953.7	7725.1	7274.5	6765.2	6436.5	6769.5	6935.0	7444.3	7746.9	7675.1
27.5°	9305.4	9285.8	9059.4	8500.0	7775.2	7172.2	7215.8	7372.5	7899.3	8197.5	7968.9
30°	10591.8	10598.4	10374.2	9799.5	8978.9	8110.4	7781.7	7873.1	8341.1	8643.7	8317.2
32.5°	11815.1	11823.8	11630.1	10988.0	10221.8	9200.9	8565.3	8541.4	8854.8	9153.0	8778.6
35°	12905.7	12927.4	12794.7	12296.2	11484.3	10415.5	9581.8	9525.2	9584.0	9921.4	9486.1
37.5°	13957.0	13970.1	13869.9	13449.8	12770.7	11749.8	10866.1	10785.6	10659.3	10918.3	10419.9
40°	15108.5	15075.8	14960.5	14579.6	13996.2	13223.5	12246.1	12106.8	11887.0	12117.7	11647.5
42.5°	16179.4	16142.4	16162.0	15731.0	15239.1	14738.5	13854.7	13615.3	13486.8	13752.4	13153.8
45°	17518.1	17498.5	17563.8	17189.4	16791.1	16427.6	15698.4	15437.2	15380.6	15691.8	14975.7
47.5°	18839.4	18887.2	19089.7	18930.8	18769.7	18449.7	17650.9	17533.3	17568.2	17944.7	16897.7
50°	19940.8	19997.4	20552.4	20735.3	20968.2	20781.0	19980.0	19908.1	20045.3	20384.8	18965.6
52.5°	20737.4	20852.8	21542.8	22385.2	23234.1	23360.4	22561.5	22496.2	22681.2	22733.5	20563.3
55°	21290.3	21392.6	22174.1	23715.2	25443.5	25987.6	25491.4	25238.9	25204.0	24688.2	22243.7
57.5°	21388.3	21377.4	22500.6	24575.0	27176.1	28580.1	28266.7	28018.5	27304.6	26494.8	24170.1
60°	20835.4	20898.5	22202.4	24873.2	28264.5	30541.3	30565.3	30243.1	29130.8	28251.4	26037.7
62.5°	19133.2	19390.1	20707.0	24091.7	28251.4	31331.5	32250.0	32004.1	30674.1	29690.2	27931.4
65°	16373.2	16464.6	17720.5	21414.4	26342.5	31000.6	33767.2	33675.8	32065.0	31087.7	28904.4
67.5°	11956.6	11758.5	13077.6	16862.9	22302.5	29072.0	34855.5	34970.9	33138.1	31375.0	27868.3
68°	10911.8	10970.6	11998.0	15737.6	21244.6	28390.7	34927.4	35103.7	33244.8	31187.8	27302.4
70°	6504.0	6617.2	7533.6	10835.6	16162.0	24535.8	34152.5	34555.1	32609.2	29257.1	23615.0
72.5°	1660.8	1795.8	2662.1	4849.7	9231.4	17287.4	28830.4	29511.7	28312.4	23734.8	15942.2
75°	683.5	718.3	951.2	1597.7	3439.2	7788.2	19002.6	20461.0	19627.3	14209.5	7204.9
77.5°	472.3	496.3	611.7	885.9	1488.9	2640.3	9316.3	10369.8	9342.4	4849.7	1571.6
80°	339.6	359.2	437.5	589.9	855.4	942.5	3036.5	3511.0	2788.4	1064.4	389.6
82.5°	202.4	217.7	326.5	420.1	520.2	450.6	755.3	857.6	807.6	528.9	174.1
85°	100.1	117.5	219.8	300.4	280.8	189.4	230.7	256.9	317.8	322.2	93.6
87.5°	6.5	13.1	128.4	180.7	78.4	43.5	67.5	82.7	113.2	158.9	39.2
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°	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1
2.5°	5485.3	5487.5	5472.2	5465.7	5470.1	5443.9	5433.0	5437.4	5437.4	5443.9	5433.0
5°	5539.7	5539.7	5513.6	5478.8	5459.2	5409.1	5376.5	5367.7	5361.2	5356.9	5348.2
7.5°	5657.2	5644.2	5598.5	5522.3	5457.0	5348.2	5265.4	5221.9	5200.1	5191.4	5184.9
10°	5846.6	5822.7	5746.5	5605.0	5454.8	5261.1	5080.4	4952.0	4845.3	4801.8	4775.7
12.5°	6101.3	6066.5	5938.0	5703.0	5439.6	5082.6	4690.8	4314.2	3963.8	3820.1	3748.3
15°	6395.2	6345.1	6142.7	5785.7	5350.3	4679.9	3828.8	3169.3	2683.9	2501.0	2422.7
17.5°	6693.4	6628.1	6321.1	5837.9	5082.6	3846.2	2686.1	2028.7	1704.4	1617.3	1586.8
20°	6993.7	6898.0	6475.7	5798.7	4477.5	2773.1	1771.8	1482.3	1388.7	1362.6	1353.9
22.5°	7278.9	7130.9	6615.0	5646.4	3545.8	1861.1	1401.8	1310.4	1279.9	1264.7	1260.3
25°	7527.0	7320.2	6736.9	5176.2	2509.7	1406.1	1262.5	1232.0	1192.8	1164.5	1166.7
27.5°	7759.9	7509.6	6810.9	4401.3	1673.9	1201.5	1168.9	1127.5	1055.7	1014.3	1014.3
30°	8040.7	7762.1	6865.3	3386.9	1232.0	1062.2	1036.1	973.0	875.0	820.6	820.6
32.5°	8463.0	8145.2	6830.5	2377.0	1020.9	933.8	872.9	785.8	679.1	626.9	624.7
35°	9109.5	8737.3	6582.3	1558.5	901.2	811.9	714.0	607.3	513.7	470.2	468.0
37.5°	9980.2	9529.6	6025.1	1114.5	807.6	698.7	581.2	463.6	394.0	365.7	363.5
40°	11109.9	10450.3	5228.4	903.3	720.5	589.9	448.4	359.2	311.3	289.5	291.7
42.5°	12466.0	11436.4	4272.9	779.3	635.6	485.4	350.4	283.0	252.5	237.3	232.9
45°	13972.3	12409.4	3271.6	694.4	550.7	391.8	274.3	224.2	200.3	191.5	191.5
47.5°	15628.7	13356.2	2394.4	620.4	459.3	302.6	219.8	182.8	163.3	156.7	154.5
50°	17132.8	14013.6	1726.1	542.0	376.6	239.4	178.5	152.4	139.3	130.6	130.6
52.5°	18386.6	14220.4	1271.2	457.1	304.7	191.5	148.0	130.6	117.5	111.0	111.0
55°	19490.2	14135.5	944.7	376.6	246.0	156.7	126.2	111.0	100.1	93.6	93.6
57.5°	20548.1	13861.2	705.3	306.9	198.1	126.2	106.7	93.6	82.7	78.4	78.4
60°	21412.2	13404.1	524.6	248.1	158.9	102.3	89.2	76.2	67.5	60.9	60.9
62.5°	22113.1	12899.1	385.3	204.6	126.2	80.5	69.7	63.1	50.1	43.5	43.5
65°	22117.5	12061.1	289.5	169.8	98.0	63.1	52.2	50.1	32.7	26.1	23.9
67.5°	20517.6	10398.1	222.0	145.8	76.2	47.9	39.2	41.4	17.4	10.9	8.7
68°	19936.4	9975.8	209.0	143.7	71.8	45.7	37.0	41.4	15.2	8.7	6.5
70°	16808.5	7936.3	167.6	139.3	63.1	34.8	30.5	41.4	13.1	6.5	4.4
72.5°	10750.7	4605.9	124.1	111.0	47.9	26.1	19.6	37.0	13.1	4.4	2.2
75°	4575.4	1427.9	84.9	78.4	28.3	19.6	13.1	23.9	8.7	2.2	0.0
77.5°	964.3	322.2	50.1	47.9	19.6	13.1	8.7	6.5	2.2	0.0	0.0
80°	248.1	93.6	26.1	23.9	10.9	6.5	4.4	0.0	0.0	0.0	0.0
82.5°	78.4	37.0	15.2	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.2	21.8	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	6.5	2.2	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)