

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: P321554

Luminaire Tested: **GAN-SA0A-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32308 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

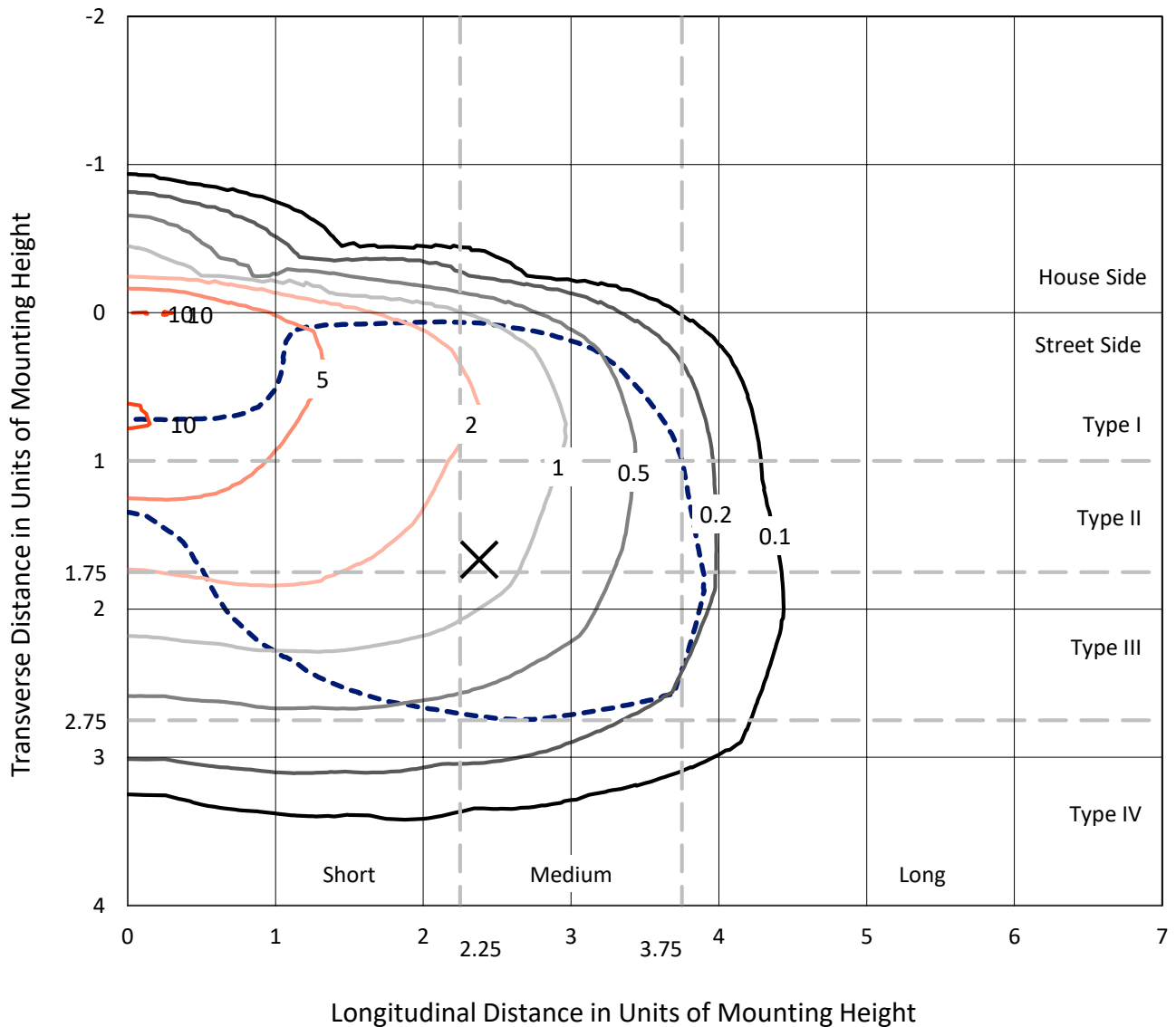
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

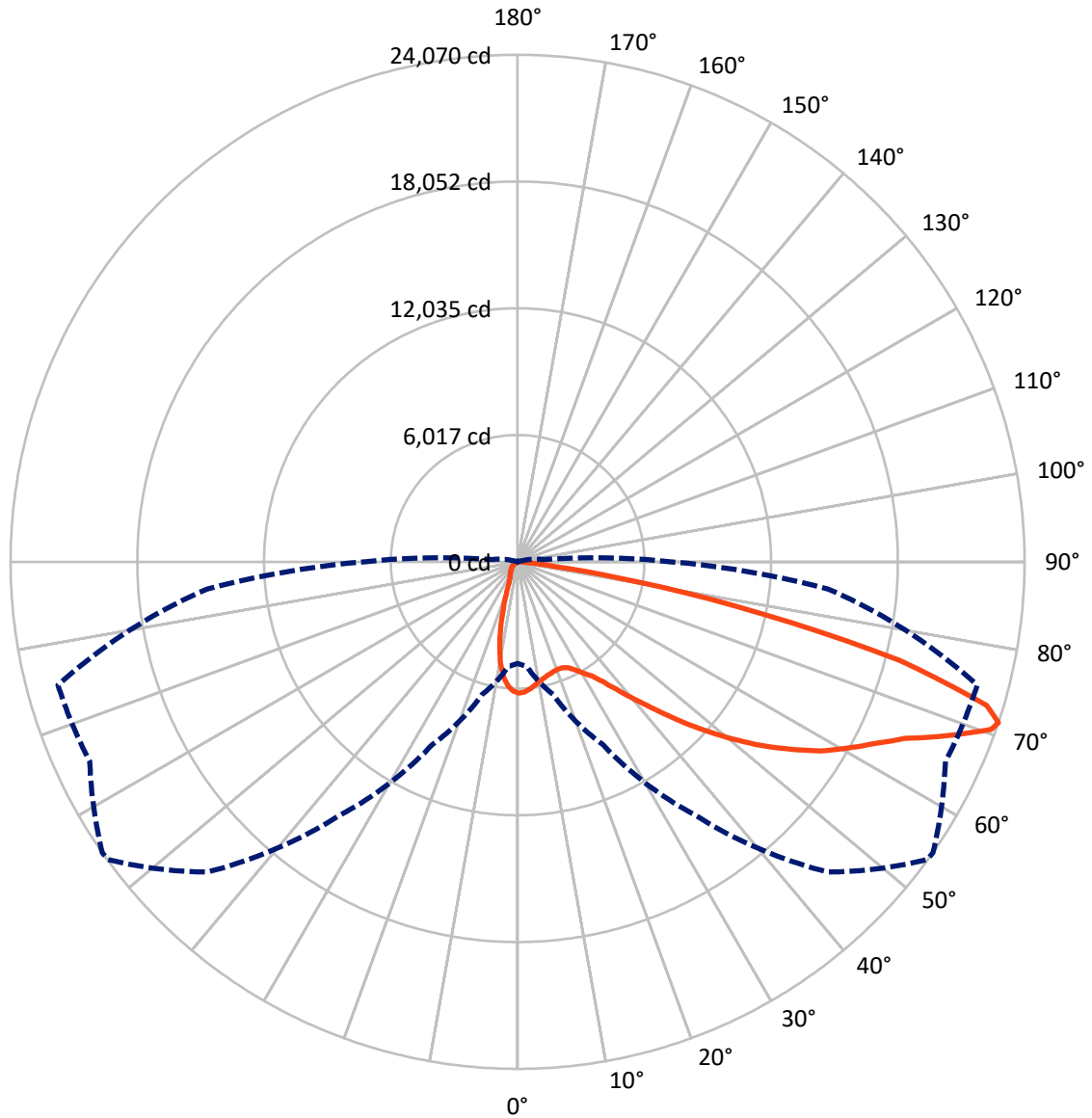
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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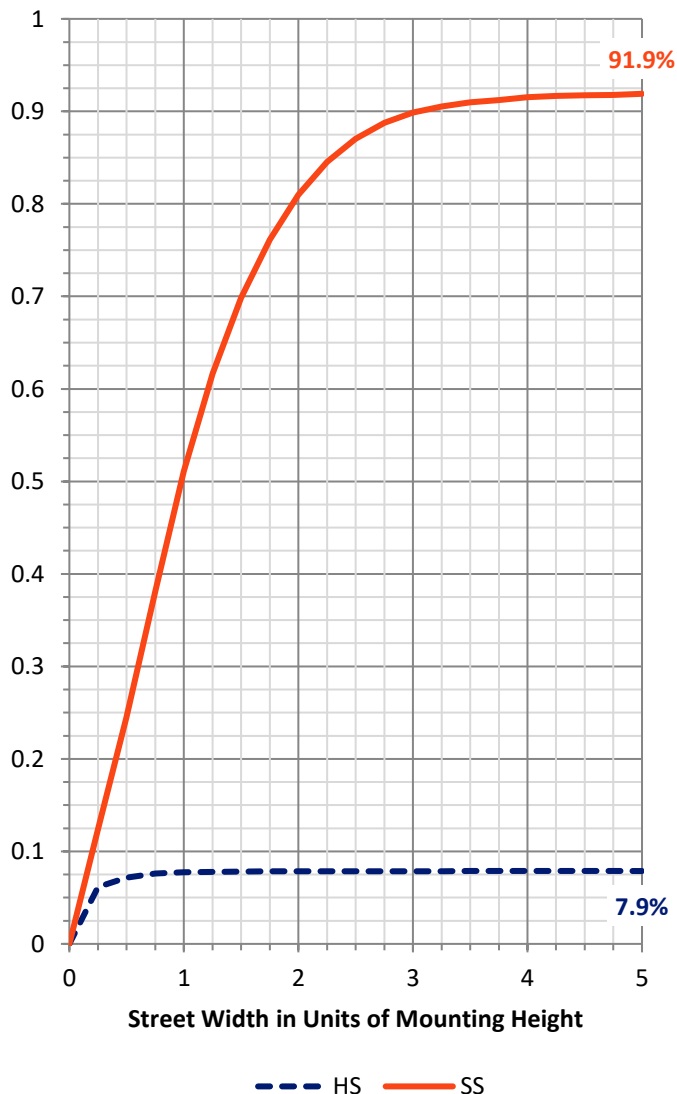
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.9	0.0	2557.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	29750.1	0.0	29750.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	32308.0	0.0	32308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.3	1.6
10°-20°	1199.3	3.7
20°-30°	1927.4	6.0
30°-40°	3274.7	10.1
40°-50°	5082.8	15.7
50°-60°	6833.6	21.2
60°-70°	8359.8	25.9
70°-80°	4887.8	15.1
80°-90°	211.3	0.7
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°	32308.0	100.0
0°-180°	32308.0	100.0

Coefficient of Utilization

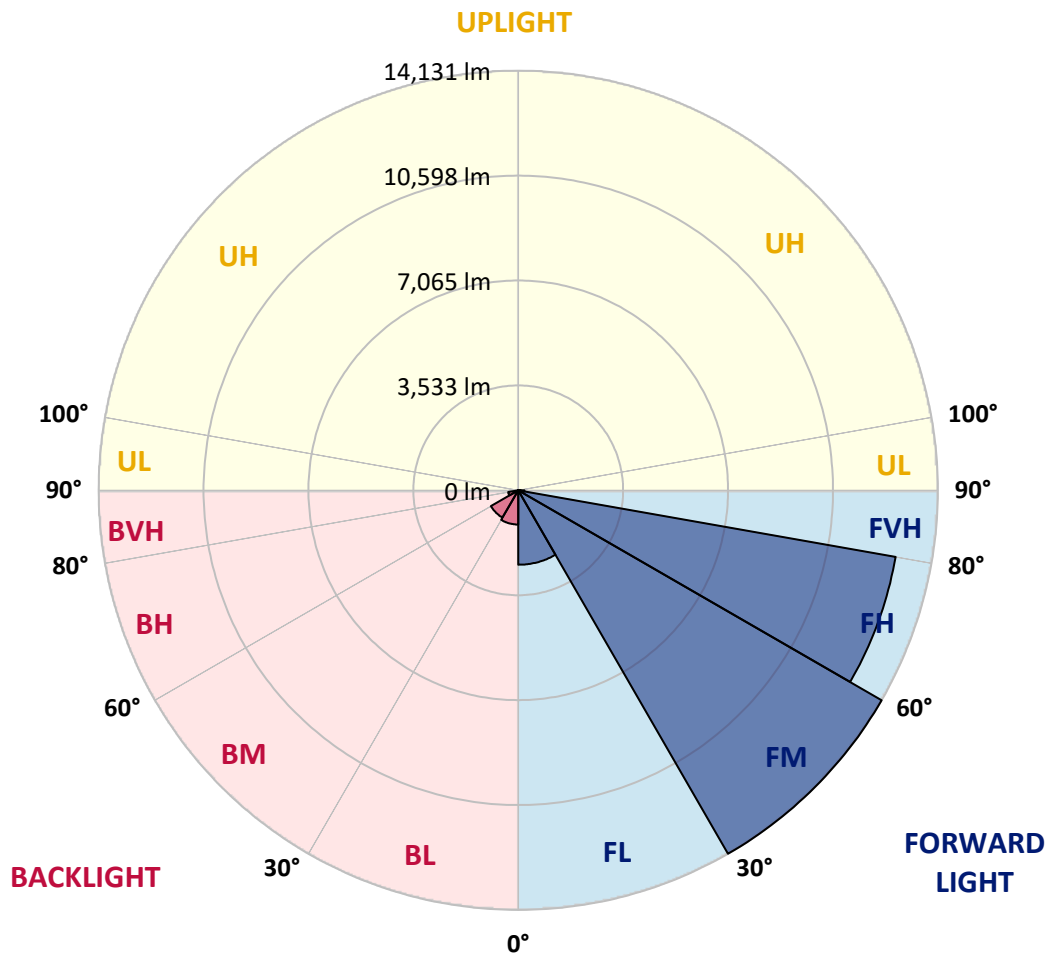


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2506.7	7.8			
FM (30°-60°)	14130.6	43.7			
FH (60°-80°)	12904.9	39.9			G5
FVH (80°-90°)	208.0	0.6			G2/225
BL (0°-30°)	1151.3	3.6	B3/2500		
BM (30°-60°)	1060.6	3.3	B2/2500		
BH (60°-80°)	342.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7
2.5°	6047.9	6055.2	6081.3	6092.9	6120.5	6166.9	6190.1	6191.5	6229.3	6243.8	6255.4
5°	5620.0	5663.5	5707.0	5753.4	5837.6	5949.3	6059.5	6069.7	6191.5	6281.5	6329.4
7.5°	5251.5	5290.7	5342.9	5416.9	5535.8	5711.4	5895.6	5917.4	6148.0	6352.6	6459.9
10°	4872.9	4904.8	4980.2	5089.0	5252.9	5488.0	5736.0	5772.3	6108.9	6448.3	6636.9
12.5°	4468.1	4487.0	4578.4	4735.1	4975.9	5274.7	5601.1	5649.0	6084.2	6558.6	6845.8
15°	4160.6	4169.3	4256.3	4418.8	4694.4	5083.2	5496.7	5554.7	6090.0	6690.6	7073.6
17.5°	4082.2	4086.6	4133.0	4244.7	4488.4	4912.0	5414.0	5485.1	6107.4	6819.7	7302.8
20°	4399.9	4369.5	4321.6	4304.2	4408.6	4809.0	5364.7	5444.4	6130.6	6934.3	7508.8
22.5°	5271.8	5181.9	4983.1	4717.6	4556.6	4816.3	5377.7	5457.5	6204.6	7075.0	7746.7
25°	6565.8	6441.1	6103.1	5580.8	5078.9	5025.2	5486.5	5567.7	6348.2	7243.3	7974.4
27.5°	8038.3	7915.0	7501.5	6755.9	5900.0	5438.6	5736.0	5811.5	6561.5	7392.7	8148.5
30°	9448.3	9413.5	8926.1	8078.9	6932.8	6108.9	6058.1	6121.9	6719.6	7482.7	8286.3
32.5°	10643.7	10588.6	10196.9	9372.9	8115.2	6914.0	6436.7	6455.6	6838.6	7598.7	8466.2
35°	11752.0	11683.9	11340.0	10561.0	9327.9	7897.6	7019.9	6992.3	7098.2	7832.3	8727.4
37.5°	12719.7	12782.0	12400.5	11659.2	10416.0	8920.3	7806.2	7723.5	7504.4	8212.4	9106.0
40°	13529.1	13529.1	13330.4	12712.4	11591.0	9977.8	8695.4	8586.6	8115.2	8798.4	9586.2
42.5°	13820.7	13883.1	13957.1	13607.5	12642.8	11077.5	9686.3	9573.1	8975.4	9629.7	10192.5
45°	13838.1	13936.8	14315.4	14314.0	13593.0	12169.8	10803.3	10749.6	10077.9	10697.4	10944.0
47.5°	13593.0	13716.3	14340.1	14694.0	14345.9	13186.8	12024.8	11958.0	11373.4	12005.9	11730.3
50°	13214.3	13350.7	14076.0	14843.5	14858.0	14071.7	13311.5	13211.4	12799.4	13501.6	12542.7
52.5°	12536.9	12800.9	13839.6	14878.3	15194.5	14836.2	14535.9	14492.4	14395.2	14942.1	13189.7
55°	11087.6	11380.7	13246.3	14889.9	15506.4	15513.7	15683.4	15695.0	15890.9	16288.3	13671.3
57.5°	10402.9	10568.3	12210.5	14945.0	15969.2	16282.5	16852.7	16942.6	17245.8	17566.4	14221.1
60°	9972.0	10167.9	11699.8	14869.6	16696.0	17290.8	17936.3	17966.8	18291.8	18885.1	14965.3
62.5°	9628.2	9821.2	11377.8	14579.4	17512.7	18503.6	18995.3	18998.2	19242.0	20456.2	15811.1
65°	8779.6	8942.1	10726.4	14253.0	18052.4	19703.3	20225.5	20206.7	20405.4	22112.9	16793.2
67.5°	7552.3	7677.1	9396.1	13015.6	17849.3	20794.2	22082.4	22020.0	21779.2	23544.7	17179.1
70°	5839.0	5884.0	7405.8	10846.8	15946.0	21213.4	23876.9	23845.0	22622.1	23287.9	15764.6
71°	4826.4	4974.4	6526.7	9573.1	14670.8	20826.1	24051.0	24069.8	22410.3	22588.7	14791.2
72.5°	2802.7	2928.9	4730.7	7352.1	12455.6	19210.0	23148.7	23285.0	21420.9	20546.1	12634.1
75°	600.6	642.7	1753.9	3558.5	6851.6	13463.9	18271.4	18757.4	17459.1	13977.4	7614.7
77.5°	417.8	451.2	751.5	1614.6	2264.5	6652.9	11350.2	11898.6	10430.5	5252.9	2437.2
80°	330.8	368.5	586.1	797.9	612.2	2145.6	5316.8	5651.9	3478.8	1172.2	410.5
82.5°	184.2	219.1	457.0	430.9	235.0	407.6	1488.4	1682.8	696.3	236.5	97.2
85°	53.7	65.3	294.5	313.3	100.1	78.3	253.9	314.8	132.0	62.4	43.5
87.5°	0.0	0.0	142.2	120.4	29.0	11.6	23.2	26.1	26.1	26.1	29.0
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°	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7	6230.7
2.5°	6255.4	6265.5	6229.3	6181.4	6130.6	6068.2	6003.0	5952.2	5950.7	5926.1	5901.4
5°	6332.3	6326.5	6226.4	6074.0	5894.2	5707.0	5528.6	5326.9	5260.2	5177.5	5149.9
7.5°	6474.4	6433.8	6222.0	5888.4	5493.8	5102.1	4697.3	4289.7	4115.6	3958.9	3931.4
10°	6652.9	6576.0	6194.4	5609.8	4885.9	4163.5	3552.7	2998.6	2754.9	2567.7	2559.0
12.5°	6838.6	6721.0	6117.6	5189.1	4089.5	3074.0	2370.4	1825.0	1621.9	1491.3	1502.9
15°	7032.9	6857.4	5952.2	4621.9	3182.8	2086.1	1456.5	1135.9	1054.7	1021.3	1030.0
17.5°	7231.7	6951.7	5721.5	3938.6	2287.7	1346.2	1008.2	918.3	918.3	925.5	928.4
20°	7404.3	7002.5	5382.1	3172.7	1550.8	980.7	882.0	869.0	876.2	887.8	889.3
22.5°	7575.5	7005.4	4939.6	2396.5	1085.1	858.8	839.9	834.1	838.5	851.6	853.0
25°	7714.8	6970.6	4385.4	1704.6	866.1	809.5	800.8	797.9	800.8	816.7	816.7
27.5°	7771.3	6844.4	3709.4	1198.3	776.1	754.4	751.5	754.4	758.7	770.3	771.8
30°	7777.1	6623.9	2972.5	867.5	703.6	680.4	686.2	696.3	692.0	689.1	692.0
32.5°	7791.7	6368.5	2254.4	713.7	642.7	606.4	599.1	599.1	581.7	571.6	565.8
35°	7839.5	6068.2	1634.9	641.2	580.3	538.2	510.6	478.7	445.4	428.0	423.6
37.5°	7915.0	5753.4	1170.7	593.3	525.1	477.3	425.1	368.5	320.6	307.5	307.5
40°	8052.8	5428.5	866.1	555.6	481.6	422.2	343.8	269.8	226.3	219.1	219.1
42.5°	8270.4	5086.1	690.5	522.2	443.9	365.6	262.6	195.8	163.9	159.6	158.1
45°	8496.7	4708.9	603.5	490.3	403.3	300.3	194.4	145.1	126.2	121.9	121.9
47.5°	8723.0	4307.1	561.4	459.9	364.1	233.6	145.1	114.6	105.9	105.9	107.4
50°	8914.5	3887.8	531.0	426.5	313.3	177.0	114.6	97.2	94.3	100.1	101.5
52.5°	8962.4	3475.9	493.2	384.4	251.0	134.9	94.3	85.6	85.6	85.6	85.6
55°	8933.3	3156.7	443.9	332.2	185.7	107.4	81.2	75.4	74.0	74.0	74.0
57.5°	9032.0	2968.1	355.4	258.2	133.5	87.0	71.1	66.7	63.8	62.4	62.4
60°	9230.7	2844.8	253.9	185.7	100.1	72.5	60.9	56.6	52.2	49.3	49.3
62.5°	9494.8	2737.5	188.6	137.8	76.9	58.0	50.8	46.4	40.6	37.7	37.7
65°	9697.9	2546.0	143.6	103.0	58.0	46.4	39.2	37.7	29.0	26.1	24.7
67.5°	9387.4	2125.3	116.1	75.4	43.5	36.3	30.5	29.0	17.4	14.5	14.5
70°	8051.3	1479.7	92.8	55.1	31.9	29.0	24.7	18.9	13.1	11.6	11.6
71°	7301.3	1236.0	84.1	46.4	27.6	27.6	23.2	16.0	11.6	10.2	10.2
72.5°	6065.3	877.7	71.1	36.3	24.7	29.0	24.7	14.5	11.6	10.2	8.7
75°	3520.8	367.0	49.3	24.7	18.9	34.8	31.9	13.1	8.7	7.3	7.3
77.5°	1059.0	134.9	27.6	16.0	14.5	30.5	36.3	11.6	4.4	1.5	1.5
80°	192.9	58.0	17.4	10.2	10.2	18.9	27.6	5.8	0.0	0.0	0.0
82.5°	68.2	29.0	10.2	5.8	4.4	8.7	13.1	0.0	0.0	0.0	0.0
85°	39.2	20.3	5.8	2.9	0.0	1.5	2.9	0.0	0.0	0.0	0.0
87.5°	26.1	5.8	0.0	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)