

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: P317823

Luminaire Tested: **GAN-SA9D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70922 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

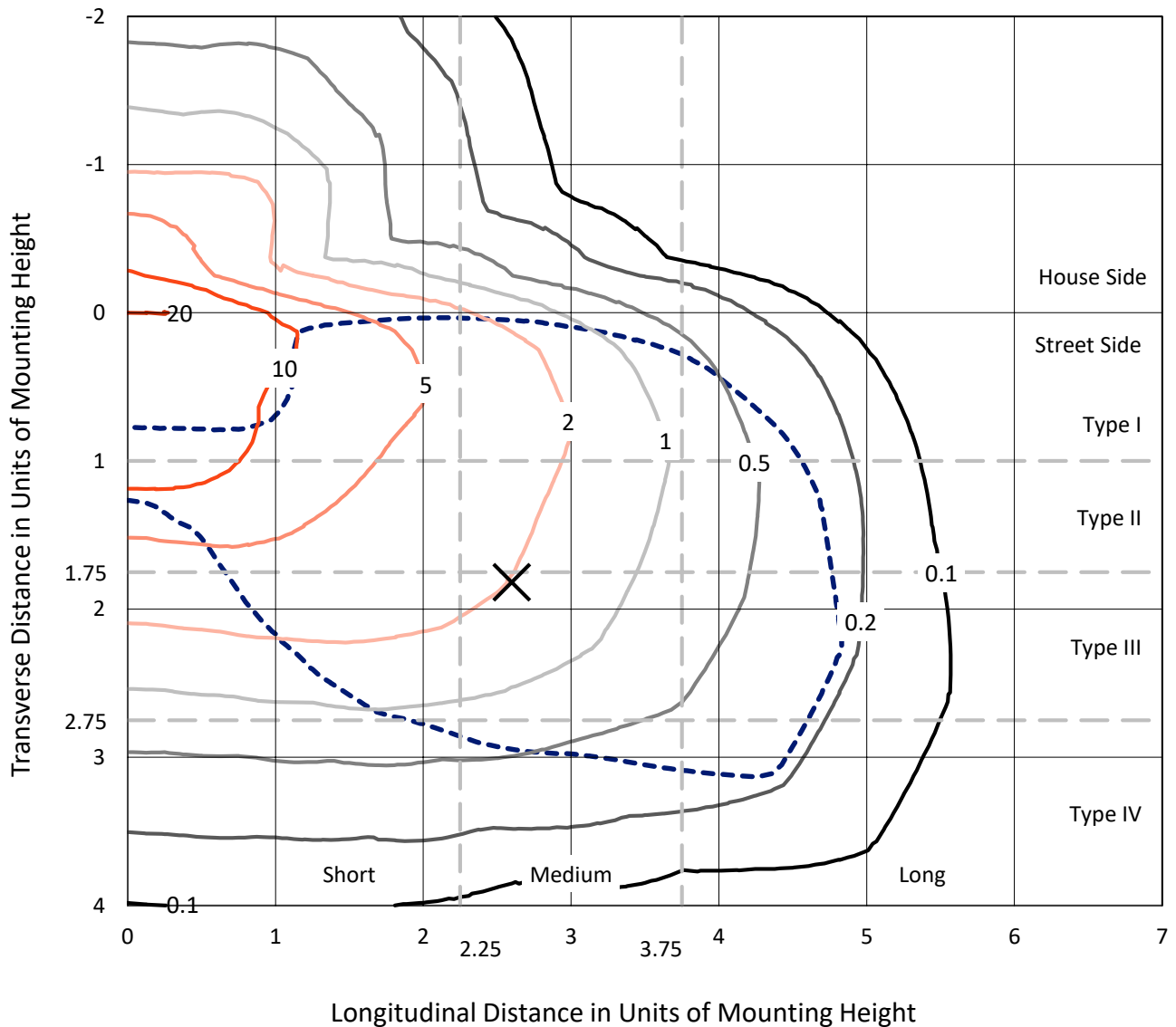
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

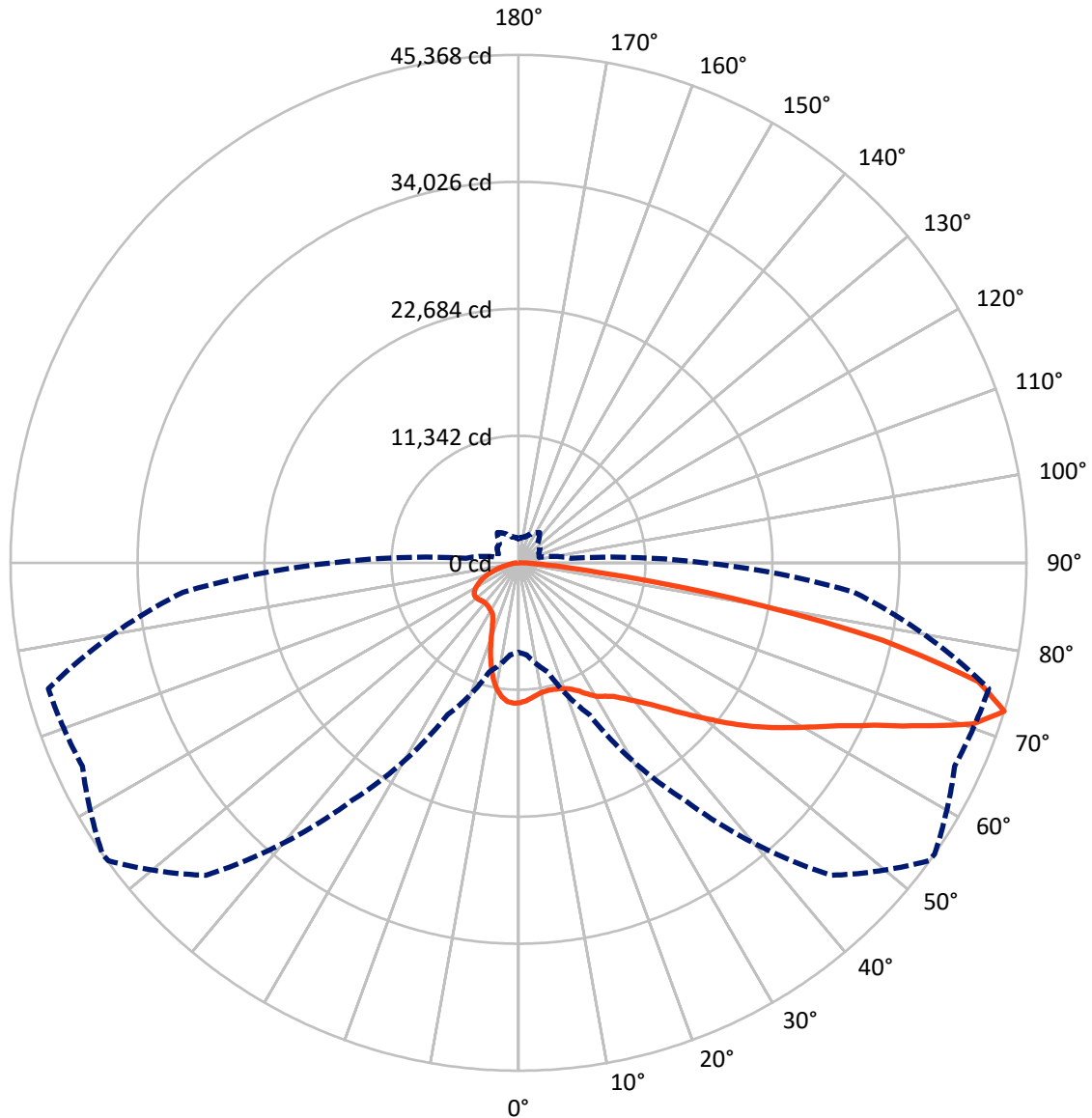
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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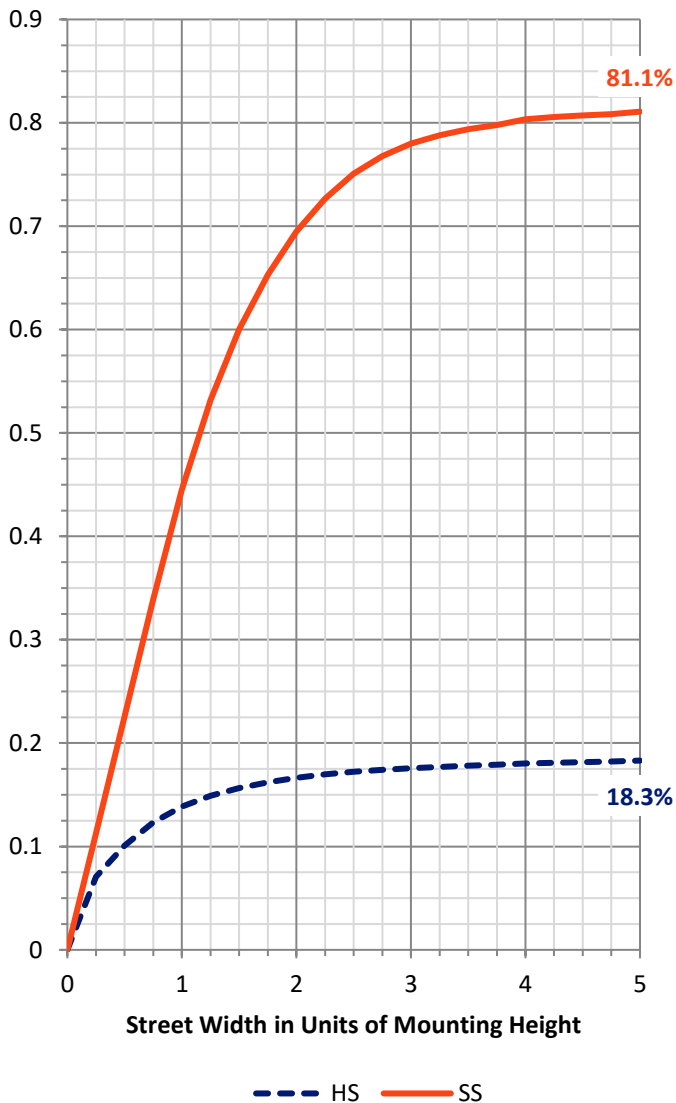
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13182.1	0.0	13182.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	57739.9	0.0	57739.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	70922.0	0.0	70922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.9	1.6
10°-20°	3013.6	4.2
20°-30°	4968.7	7.0
30°-40°	7349.9	10.4
40°-50°	10259.0	14.5
50°-60°	13357.5	18.8
60°-70°	16416.0	23.1
70°-80°	12868.2	18.1
80°-90°	1557.2	2.2
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°	70922.0	100.0
0°-180°	70922.0	100.0

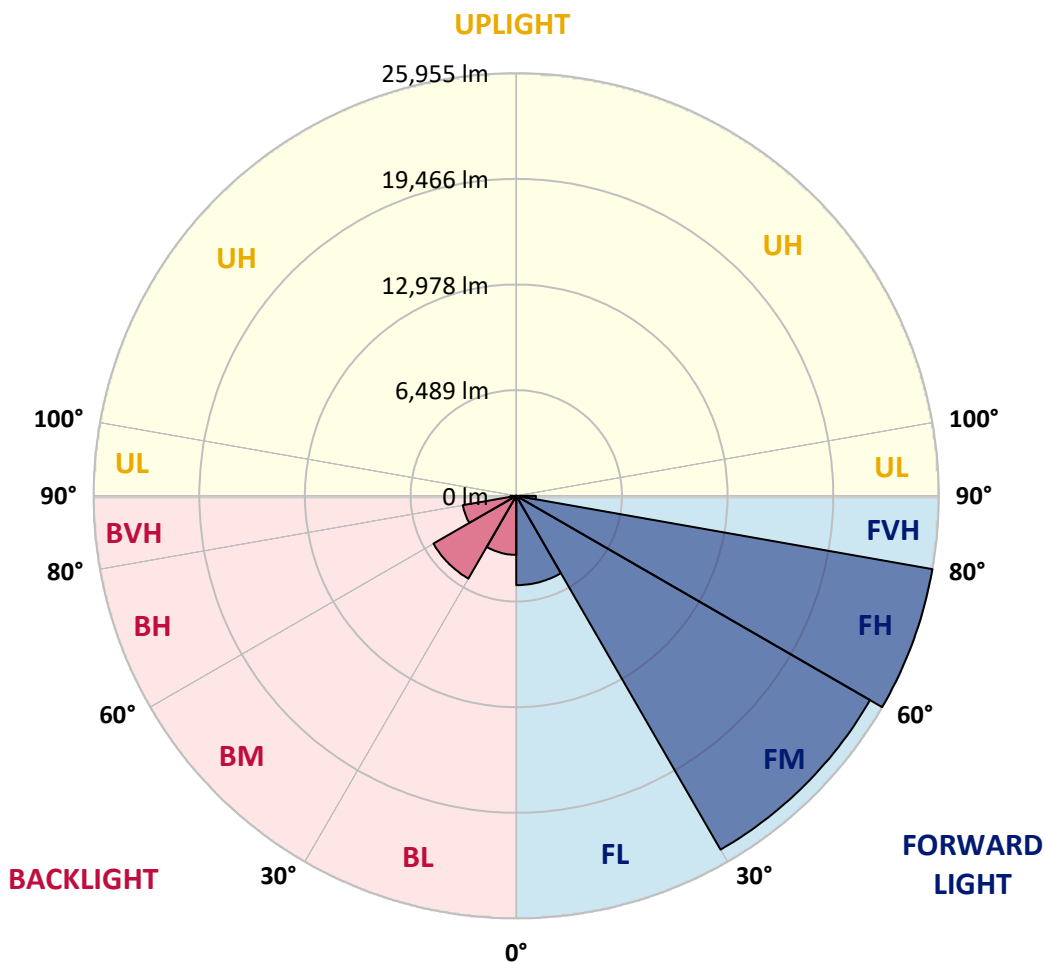


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5487.3	7.7			
FM (30°-60°)	25093.6	35.4			
FH (60°-80°)	25955.1	36.6			G5
FVH (80°-90°)	1204.0	1.7			G5
BL (0°-30°)	3626.9	5.1	B4/5000		
BM (30°-60°)	5872.8	8.3	B4/8500		
BH (60°-80°)	3329.1	4.7	B4/5000		G4/5000
BVH (80°-90°)	353.3	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1
2.5°	12101.9	12073.1	12109.1	12159.4	12214.5	12288.7	12331.9	12351.0	12425.3	12454.0	12516.3
5°	11541.3	11527.0	11586.9	11673.1	11795.3	11967.7	12106.7	12133.0	12329.5	12468.4	12595.4
7.5°	11134.1	11134.1	11203.6	11306.6	11443.1	11675.5	11871.9	11907.9	12240.8	12540.3	12775.0
10°	10810.7	10822.7	10904.2	11026.3	11186.8	11433.6	11694.7	11735.4	12216.9	12707.9	13081.6
12.5°	10595.1	10623.9	10698.1	10808.3	11007.2	11306.6	11637.2	11692.3	12267.2	12947.5	13450.5
15°	10731.7	10779.6	10786.8	10832.3	10942.5	11268.3	11670.7	11728.2	12375.0	13191.8	13869.7
17.5°	11330.5	11347.3	11273.1	11177.2	11124.5	11332.9	11771.3	11831.2	12504.3	13433.8	14272.2
20°	12240.8	12231.2	12070.7	11812.0	11543.7	11577.3	11936.6	11998.9	12679.2	13647.0	14674.6
22.5°	13390.6	13357.1	13110.4	12633.7	12176.1	11984.5	12226.5	12279.2	12942.7	13951.2	15105.8
25°	14784.8	14710.5	14384.8	13745.2	13072.0	12578.6	12662.4	12712.7	13326.0	14291.3	15501.0
27.5°	16255.6	16181.4	15766.9	14993.2	14097.3	13328.4	13263.7	13306.8	13761.9	14542.9	15793.3
30°	17793.5	17714.5	17336.0	16468.8	15184.8	14104.5	13824.2	13841.0	14068.6	14679.4	16032.8
32.5°	19338.6	19264.3	18840.3	17834.2	16365.8	14938.1	14229.1	14207.5	14253.0	14820.7	16303.5
35°	20905.2	20934.0	20438.1	19324.2	17673.7	15865.2	14708.2	14662.6	14562.0	15110.6	16686.8
37.5°	22582.0	22562.9	21920.9	20756.7	19041.5	16871.3	15395.6	15388.5	15041.1	15659.2	17288.1
40°	23703.1	23715.1	23324.6	22222.7	20423.7	17985.1	16277.2	16260.4	15805.3	16480.8	18076.2
42.5°	24141.5	24220.5	24321.1	23621.7	21870.6	19276.3	17328.8	17304.8	16871.3	17659.4	19003.2
45°	24172.6	24330.7	24953.6	24864.9	23336.6	20754.3	18672.6	18605.6	18294.2	19226.0	20109.9
47.5°	23904.3	24067.2	25102.1	25605.1	24646.9	22313.8	20244.1	20191.4	19923.1	21185.5	21307.7
50°	23317.5	23473.2	24795.5	25966.8	25724.9	23813.3	22055.0	21916.1	21772.4	23449.2	22677.9
52.5°	22217.9	22517.4	24385.8	26053.1	26369.3	25145.2	23959.4	23868.4	23947.5	25837.5	24050.5
55°	19614.1	19949.4	23329.4	25981.2	26846.0	26263.9	25863.8	25859.0	26268.7	28343.1	25523.7
57.5°	18155.2	18392.4	21178.3	25859.0	27411.3	27375.4	27749.1	27794.6	28592.3	31071.6	27066.4
60°	17331.2	17580.3	20088.4	25406.3	28288.0	28812.6	29672.6	29763.6	30954.2	34092.2	28922.8
62.5°	16581.4	16854.5	19412.8	24484.0	29320.5	30868.0	31977.1	32058.5	33455.1	37196.8	30717.0
65°	15299.8	15608.8	18423.5	23878.0	30259.5	33548.5	34906.7	34961.8	36327.2	40449.8	32089.6
67.5°	13488.9	13771.5	16557.4	22538.9	30954.2	36803.9	38801.7	38832.9	39175.4	42747.1	32791.5
70°	11373.7	11481.5	13898.5	19774.6	30132.5	39848.5	43070.4	43077.6	41772.1	44217.9	32676.5
72.5°	7991.3	8245.2	10089.7	14969.3	25895.0	39477.3	45286.3	45367.7	42979.4	43475.3	30065.5
75°	4901.1	5169.4	6328.8	9071.6	16428.1	31047.6	41841.6	42406.9	40715.7	38763.4	24560.7
77.5°	3277.0	3377.6	4129.8	5289.2	7442.7	17863.0	32168.7	33232.3	33824.0	28268.9	15707.1
80°	1827.7	2019.4	2738.0	3286.6	3310.5	7097.8	19288.3	19537.4	18818.8	11256.3	4846.0
82.5°	967.8	1073.2	1827.7	1930.7	1806.2	2376.3	7188.8	7196.0	6012.6	3018.3	1439.7
85°	749.8	838.4	1252.8	1178.6	922.3	1054.0	2371.5	2500.9	2045.7	1236.1	469.5
87.5°	373.7	464.7	850.4	747.4	361.7	301.8	848.0	905.5	807.3	483.9	170.1
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°	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1	12509.1
2.5°	12540.3	12561.8	12588.2	12559.4	12549.8	12511.5	12446.8	12432.5	12398.9	12401.3	12420.5
5°	12650.4	12686.4	12672.0	12561.8	12430.1	12245.6	12054.0	11891.1	11783.3	11776.1	11768.9
7.5°	12861.2	12885.2	12772.6	12458.8	12089.9	11663.5	11261.1	10908.9	10695.7	10643.0	10631.1
10°	13191.8	13187.0	12878.0	12245.6	11510.2	10748.4	10101.7	9613.0	9327.9	9244.1	9222.5
12.5°	13560.7	13505.6	12913.9	11857.5	10691.0	9634.6	8815.3	8271.5	7974.5	7878.7	7854.7
15°	13941.6	13805.1	12825.3	11277.8	9684.9	8434.4	7574.5	7071.4	6910.9	6858.2	6848.6
17.5°	14296.1	14032.6	12571.4	10492.1	8537.4	7239.1	6568.4	6367.1	6405.5	6474.9	6477.3
20°	14643.5	14185.9	12164.2	9500.4	7327.7	6254.6	6027.0	6175.5	6357.6	6498.9	6518.1
22.5°	14986.0	14293.7	11639.6	8355.4	6245.0	5701.2	5861.7	6132.4	6340.8	6494.1	6520.5
25°	15273.5	14320.1	10916.1	7133.7	5492.8	5492.8	5782.7	6039.0	6245.0	6395.9	6422.2
27.5°	15378.9	14142.8	9895.7	6003.0	5114.3	5397.0	5672.5	5885.7	6060.5	6221.0	6249.8
30°	15419.6	13814.6	8717.1	5095.2	4958.6	5294.0	5523.9	5706.0	5871.3	6022.2	6048.5
32.5°	15426.8	13419.4	7466.7	4580.1	4850.8	5186.2	5339.5	5500.0	5677.3	5737.1	5746.7
35°	15472.3	12952.3	6149.2	4316.6	4750.2	5085.6	5207.7	5322.7	5035.3	5056.8	5076.0
37.5°	15604.1	12490.0	5047.2	4168.1	4685.5	5032.9	5179.0	4762.2	4537.0	4484.3	4477.1
40°	15850.8	11996.5	4230.4	4048.3	4661.6	5059.2	4994.5	4446.0	4057.9	3768.1	3724.9
42.5°	16193.3	11464.7	3708.2	3969.3	4678.3	5186.2	4738.2	4141.8	3497.4	3310.5	3286.6
45°	16579.0	10906.5	3425.5	3914.2	4735.8	5284.4	4685.5	3736.9	3236.3	3094.9	3083.0
47.5°	16952.7	10223.8	3279.4	3890.2	4814.9	5205.3	4462.8	3612.4	3111.7	3037.4	3044.6
50°	17381.5	9608.2	3190.8	3863.9	4884.4	5155.0	4211.2	3547.7	3063.8	3154.8	3250.6
52.5°	17743.2	8971.0	3111.7	3811.2	4910.7	5066.4	4146.5	3559.7	3063.8	3238.7	3329.7
55°	18172.0	8489.5	3020.7	3701.0	4860.4	4814.9	4101.0	3631.5	3099.7	2989.5	2999.1
57.5°	18725.3	8331.4	2920.1	3528.5	4692.7	4448.4	4079.5	3701.0	3078.2	3008.7	3032.7
60°	19491.9	8499.1	2879.3	3303.3	4431.6	4160.9	4081.9	3665.1	2927.3	2807.5	2809.9
62.5°	20222.5	8686.0	2877.0	3162.0	4110.6	3904.6	4026.8	3547.7	2850.6	2781.1	2807.5
65°	20462.1	8496.7	2762.0	3003.9	3748.9	3598.0	3926.2	3423.1	2793.1	2687.7	2682.9
67.5°	20141.1	7909.8	2529.6	2747.6	3334.5	3241.1	3794.4	3274.6	2702.1	2615.8	2601.5
70°	19187.7	6599.5	2242.2	2409.8	2862.6	2838.6	3586.0	3102.1	2579.9	2505.7	2443.4
72.5°	16622.1	4702.3	1890.0	2005.0	2330.8	2407.4	3298.6	2877.0	2407.4	2246.9	2151.1
75°	13651.8	3480.6	1552.3	1576.2	1770.2	1978.7	2903.3	2613.5	2203.8	1930.7	1856.5
77.5°	8360.2	2129.6	1236.1	1245.6	1269.6	1578.6	2390.7	2318.8	1945.1	1609.8	1557.1
80°	2706.9	1161.8	893.5	939.0	867.2	1157.0	1849.3	1973.9	1669.6	1346.3	1288.8
82.5°	1030.0	677.9	603.7	634.8	601.3	776.1	1348.6	1581.0	1367.8	1106.7	900.7
85°	498.3	383.3	356.9	400.0	371.3	397.6	862.4	1164.2	1037.2	721.0	670.7
87.5°	177.3	170.1	136.5	184.5	158.1	141.3	263.5	586.9	685.1	495.9	443.2
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)