

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: P317783

Luminaire Tested: **GAN-SA9D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317783
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-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 70924 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

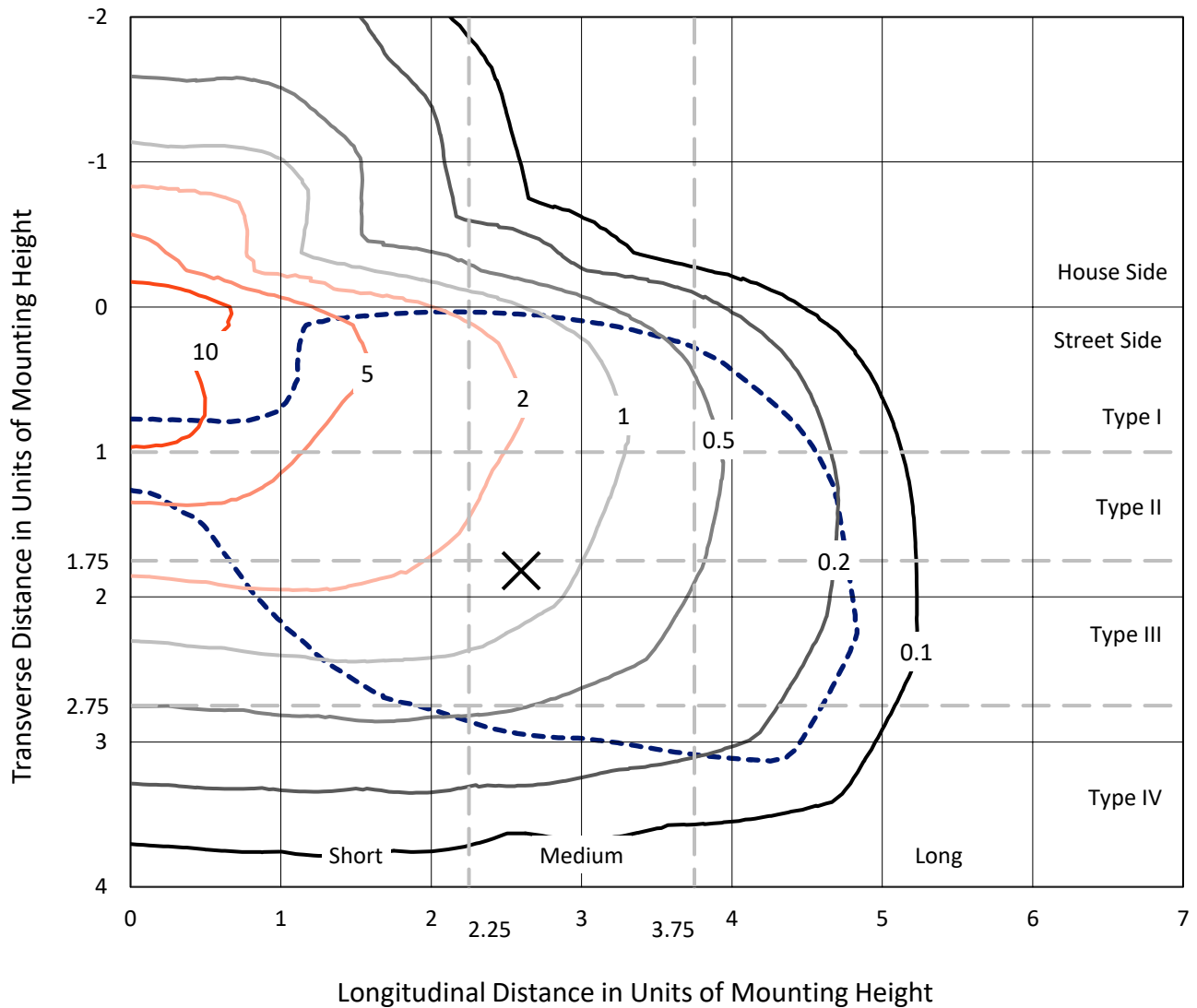
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

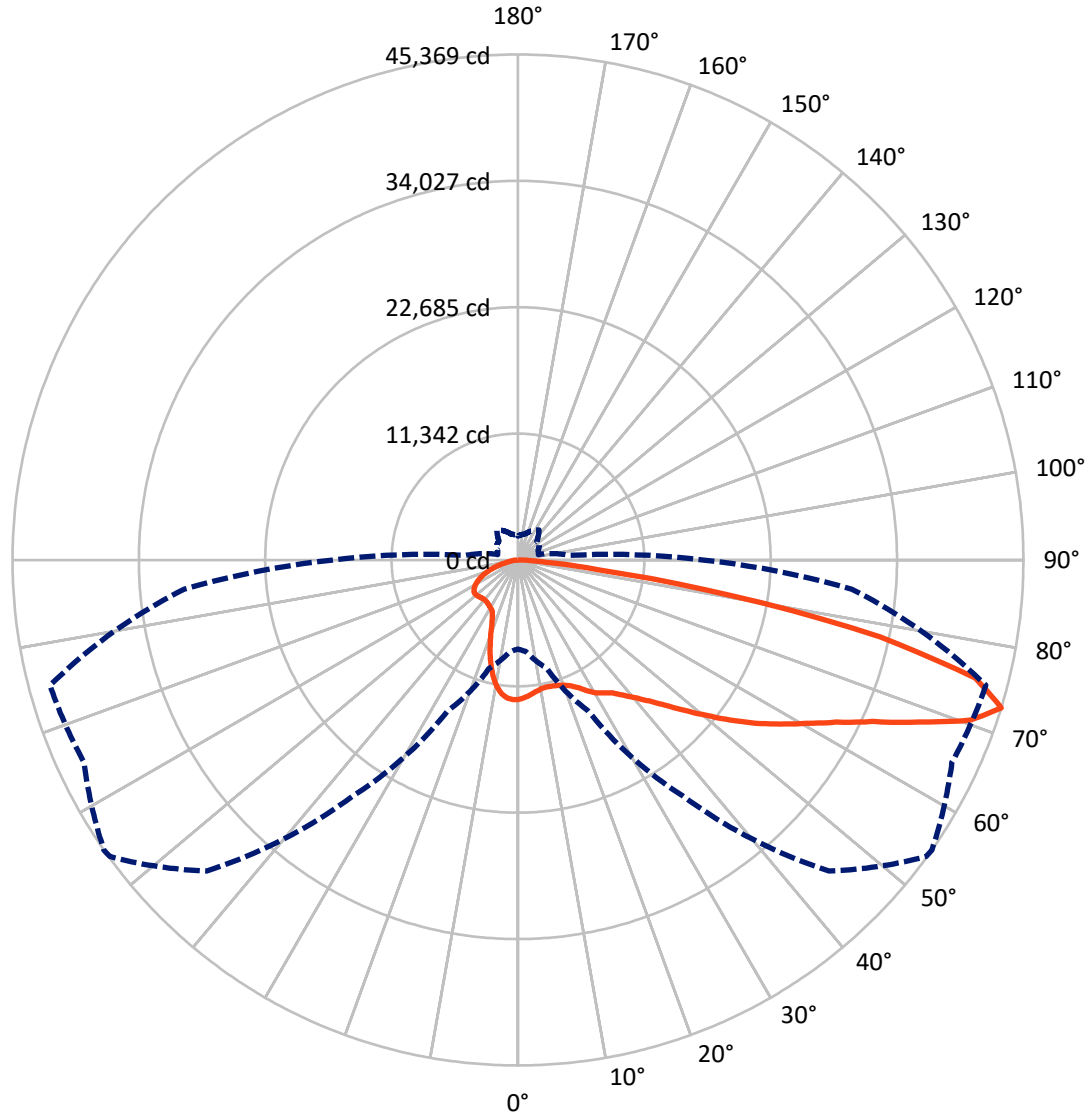
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 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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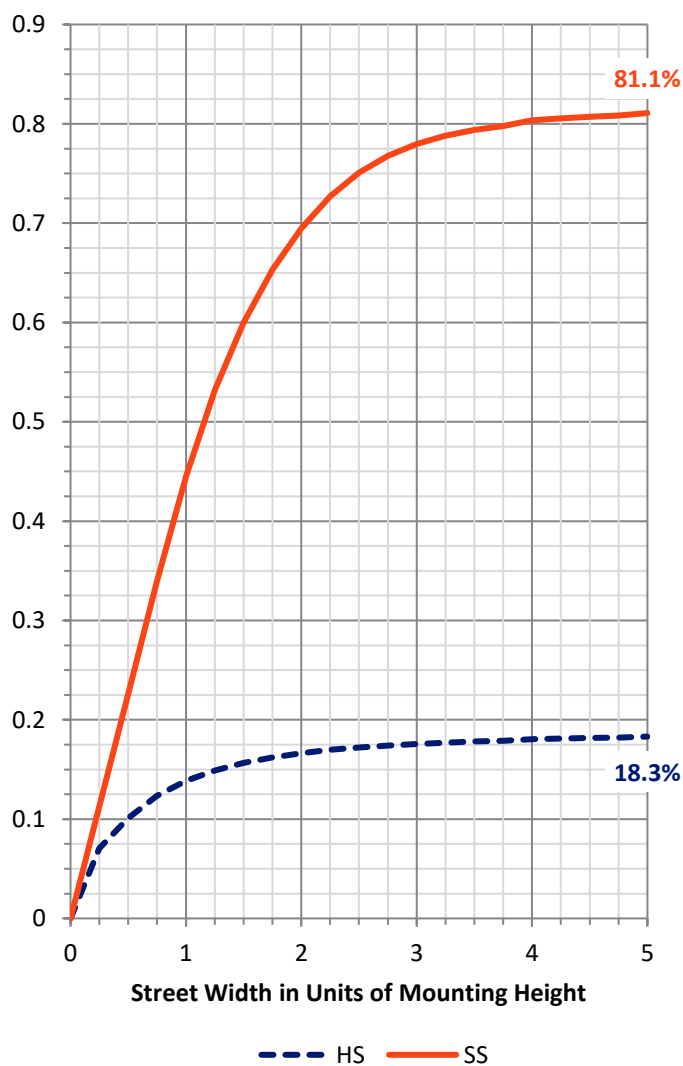
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13182.5	0.0	13182.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	57741.6	0.0	57741.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	70924.0	0.0	70924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.0	1.6
10°-20°	3013.7	4.2
20°-30°	4968.8	7.0
30°-40°	7350.2	10.4
40°-50°	10259.3	14.5
50°-60°	13357.9	18.8
60°-70°	16416.4	23.1
70°-80°	12868.5	18.1
80°-90°	1557.3	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°	70924.0	100.0
0°-180°	70924.0	100.0

Coefficient of Utilization



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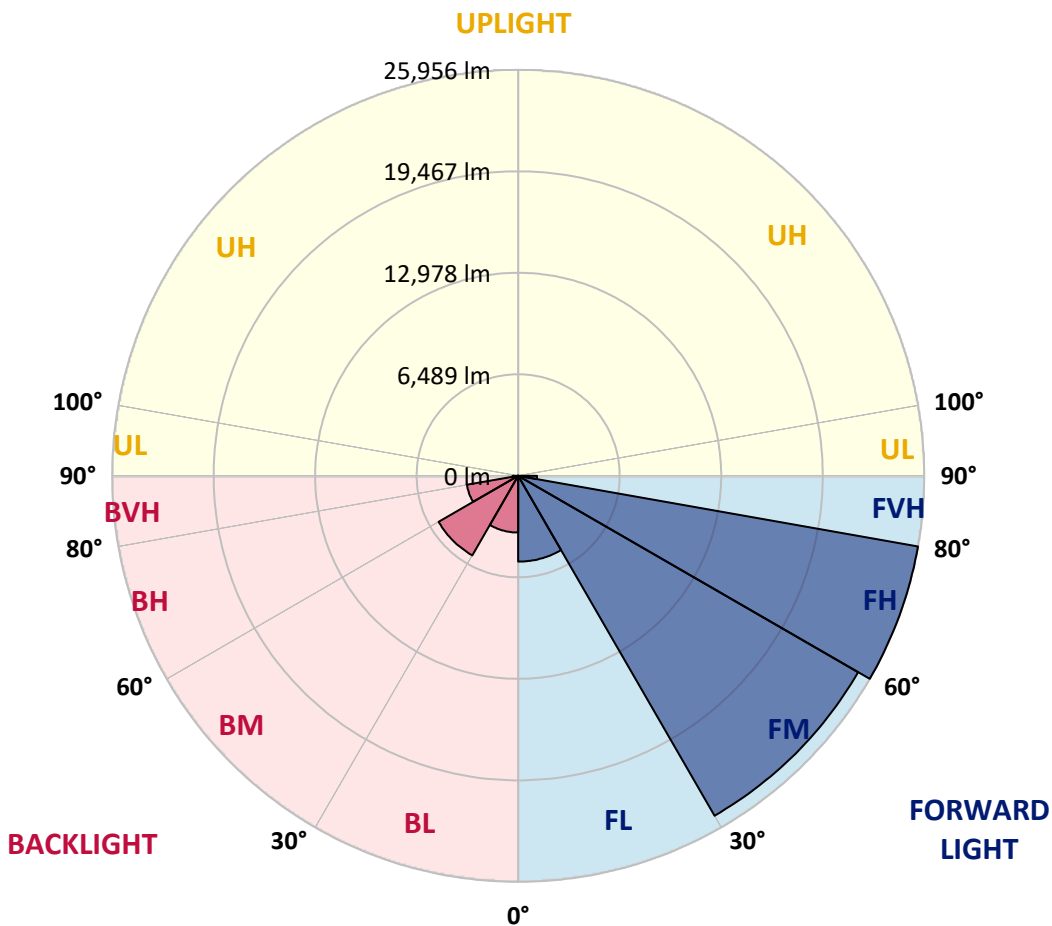
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5487.4	7.7			
FM (30°-60°)	25094.3	35.4			
FH (60°-80°)	25955.8	36.6			G5
FVH (80°-90°)	1204.0	1.7			G5
BL (0°-30°)	3627.0	5.1	B4/5000		
BM (30°-60°)	5873.0	8.3	B4/8500		
BH (60°-80°)	3329.2	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°	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5
2.5°	12102.2	12073.5	12109.4	12159.7	12214.8	12289.1	12332.2	12351.4	12425.6	12454.4	12516.7
5°	11541.7	11527.3	11587.2	11673.4	11795.6	11968.1	12107.0	12133.4	12329.8	12468.7	12595.7
7.5°	11134.4	11134.4	11203.9	11306.9	11443.5	11675.8	11872.3	11908.2	12241.2	12540.6	12775.4
10°	10811.0	10823.0	10904.5	11026.6	11187.1	11433.9	11695.0	11735.7	12217.2	12708.3	13082.0
12.5°	10595.4	10624.2	10698.4	10808.6	11007.5	11306.9	11637.5	11692.6	12267.5	12947.8	13450.9
15°	10732.0	10779.9	10787.1	10832.6	10942.8	11268.6	11671.0	11728.5	12375.3	13192.2	13870.1
17.5°	11330.9	11347.6	11273.4	11177.6	11124.9	11333.3	11771.6	11831.5	12504.7	13434.1	14272.6
20°	12241.2	12231.6	12071.1	11812.4	11544.1	11577.6	11936.9	11999.2	12679.6	13647.3	14675.0
22.5°	13391.0	13357.5	13110.7	12634.0	12176.5	11984.8	12226.8	12279.5	12943.1	13951.6	15106.2
25°	14785.2	14711.0	14385.2	13745.6	13072.4	12578.9	12662.8	12713.1	13326.3	14291.7	15501.5
27.5°	16256.1	16181.8	15767.4	14993.6	14097.7	13328.7	13264.1	13307.2	13762.3	14543.3	15793.7
30°	17794.0	17715.0	17336.5	16469.3	15185.3	14104.9	13824.6	13841.4	14069.0	14679.8	16033.3
32.5°	19339.1	19264.9	18840.9	17834.7	16366.3	14938.5	14229.5	14207.9	14253.4	14821.2	16304.0
35°	20905.8	20934.6	20438.7	19324.8	17674.2	15865.6	14708.6	14663.1	14562.4	15111.0	16687.3
37.5°	22582.7	22563.5	21921.5	20757.3	19042.1	16871.7	15396.1	15388.9	15041.5	15659.6	17288.6
40°	23703.8	23715.8	23325.3	22223.3	20424.3	17985.7	16277.6	16260.9	15805.7	16481.3	18076.7
42.5°	24142.2	24221.2	24321.8	23622.3	21871.2	19276.8	17329.3	17305.3	16871.7	17659.9	19003.8
45°	24173.3	24331.4	24954.3	24865.6	23337.3	20754.9	18673.2	18606.1	18294.7	19226.5	20110.5
47.5°	23905.0	24067.9	25102.8	25605.8	24647.6	22314.4	20244.6	20191.9	19923.6	21186.1	21308.3
50°	23318.1	23473.8	24796.2	25967.6	25725.6	23814.0	22055.7	21916.7	21773.0	23449.9	22678.5
52.5°	22218.6	22518.0	24386.5	26053.8	26370.0	25145.9	23960.1	23869.1	23948.1	25838.2	24051.1
55°	19614.6	19950.0	23330.1	25981.9	26846.7	26264.6	25864.6	25859.8	26269.4	28343.9	25524.4
57.5°	18155.7	18392.9	21178.9	25859.8	27412.1	27376.1	27749.8	27795.4	28593.1	31072.4	27067.1
60°	17331.7	17580.8	20088.9	25407.0	28288.8	28813.5	29673.5	29764.5	30955.1	34093.2	28923.7
62.5°	16581.9	16855.0	19413.4	24484.7	29321.3	30868.8	31978.0	32059.4	33456.0	37197.8	30717.9
65°	15300.3	15609.3	18424.0	23878.7	30260.4	33549.4	34907.7	34962.8	36328.2	40451.0	32090.5
67.5°	13489.2	13771.9	16557.9	22539.6	30955.1	36805.0	38802.8	38834.0	39176.5	42748.3	32792.4
70°	11374.0	11481.8	13898.9	19775.1	30133.4	39849.7	43071.7	43078.9	41773.3	44219.1	32677.5
72.5°	7991.5	8245.4	10090.0	14969.7	25895.7	39478.4	45287.5	45369.0	42980.6	43476.5	30066.3
75°	4901.3	5169.6	6329.0	9071.9	16428.6	31048.5	41842.8	42408.1	40716.9	38764.5	24561.4
77.5°	3277.1	3377.7	4129.9	5289.3	7442.9	17863.5	32169.6	33233.2	33824.9	28269.7	15707.5
80°	1827.8	2019.4	2738.1	3286.7	3310.6	7098.0	19288.8	19538.0	18819.3	11256.6	4846.2
82.5°	967.8	1073.2	1827.8	1930.8	1806.2	2376.4	7189.0	7196.2	6012.8	3018.4	1439.7
85°	749.8	838.4	1252.9	1178.6	922.3	1054.0	2371.6	2500.9	2045.8	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°	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5	12509.5
2.5°	12540.6	12562.2	12588.5	12559.8	12550.2	12511.9	12447.2	12432.8	12399.3	12401.7	12420.8
5°	12650.8	12686.7	12672.4	12562.2	12430.4	12246.0	12054.3	11891.4	11783.6	11776.4	11769.2
7.5°	12861.6	12885.6	12773.0	12459.2	12090.2	11663.8	11261.4	10909.3	10696.0	10643.3	10631.4
10°	13192.2	13187.4	12878.4	12246.0	11510.5	10748.8	10102.0	9613.3	9328.2	9244.4	9222.8
12.5°	13561.1	13506.0	12914.3	11857.9	10691.3	9634.8	8815.6	8271.8	7974.7	7878.9	7854.9
15°	13942.0	13805.5	12825.7	11278.2	9685.1	8434.7	7574.7	7071.6	6911.1	6858.4	6848.8
17.5°	14296.5	14033.0	12571.8	10492.4	8537.7	7239.3	6568.5	6367.3	6405.7	6475.1	6477.5
20°	14643.9	14186.3	12164.5	9500.7	7327.9	6254.7	6027.2	6175.7	6357.7	6499.1	6518.2
22.5°	14986.4	14294.1	11639.9	8355.6	6245.2	5701.4	5861.9	6132.6	6341.0	6494.3	6520.6
25°	15273.9	14320.5	10916.4	7133.9	5493.0	5493.0	5782.8	6039.1	6245.2	6396.1	6422.4
27.5°	15379.3	14143.2	9895.9	6003.2	5114.5	5397.1	5672.6	5885.8	6060.7	6221.2	6249.9
30°	15420.0	13815.0	8717.3	5095.3	4958.8	5294.1	5524.1	5706.2	5871.4	6022.4	6048.7
32.5°	15427.2	13419.8	7466.9	4580.3	4851.0	5186.3	5339.6	5500.1	5677.4	5737.3	5746.9
35°	15472.7	12952.6	6149.3	4316.7	4750.3	5085.7	5207.9	5322.9	5035.4	5057.0	5076.1
37.5°	15604.5	12490.3	5047.4	4168.2	4685.7	5033.0	5179.1	4762.3	4537.1	4484.4	4477.2
40°	15851.2	11996.8	4230.5	4048.4	4661.7	5059.4	4994.7	4446.1	4058.0	3768.2	3725.1
42.5°	16193.8	11465.0	3708.3	3969.4	4678.5	5186.3	4738.4	4141.9	3497.5	3310.6	3286.7
45°	16579.5	10906.9	3425.6	3914.3	4736.0	5284.5	4685.7	3737.0	3236.4	3095.0	3083.0
47.5°	16953.2	10224.1	3279.5	3890.3	4815.0	5205.5	4462.9	3612.5	3111.8	3037.5	3044.7
50°	17382.0	9608.5	3190.8	3864.0	4884.5	5155.2	4211.3	3547.8	3063.9	3154.9	3250.7
52.5°	17743.7	8971.3	3111.8	3811.3	4910.8	5066.5	4146.7	3559.8	3063.9	3238.8	3329.8
55°	18172.5	8489.8	3020.8	3701.1	4860.5	4815.0	4101.2	3631.6	3099.8	2989.6	2999.2
57.5°	18725.9	8331.7	2920.2	3528.6	4692.8	4448.5	4079.6	3701.1	3078.3	3008.8	3032.7
60°	19492.4	8499.3	2879.4	3303.4	4431.7	4161.0	4082.0	3665.2	2927.3	2807.6	2810.0
62.5°	20223.1	8686.2	2877.0	3162.1	4110.7	3904.7	4026.9	3547.8	2850.7	2781.2	2807.6
65°	20462.6	8497.0	2762.0	3004.0	3749.0	3598.1	3926.3	3423.2	2793.2	2687.8	2683.0
67.5°	20141.6	7910.0	2529.7	2747.7	3334.6	3241.2	3794.5	3274.7	2702.2	2615.9	2601.5
70°	19188.2	6599.7	2242.2	2409.9	2862.7	2838.7	3586.1	3102.2	2580.0	2505.7	2443.4
72.5°	16622.6	4702.4	1890.1	2005.1	2330.9	2407.5	3298.6	2877.0	2407.5	2247.0	2151.2
75°	13652.1	3480.7	1552.3	1576.3	1770.3	1978.7	2903.4	2613.5	2203.9	1930.8	1856.5
77.5°	8360.4	2129.6	1236.1	1245.7	1269.6	1578.7	2390.7	2318.9	1945.2	1609.8	1557.1
80°	2707.0	1161.8	893.5	939.0	867.2	1157.0	1849.4	1973.9	1669.7	1346.3	1288.8
82.5°	1030.1	677.9	603.7	634.8	601.3	776.2	1348.7	1581.1	1367.8	1106.7	900.7
85°	498.3	383.3	356.9	400.1	371.3	397.7	862.4	1164.2	1037.3	721.1	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)