

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: P456249

Luminaire Tested: **GLAN-SA7C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29625 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

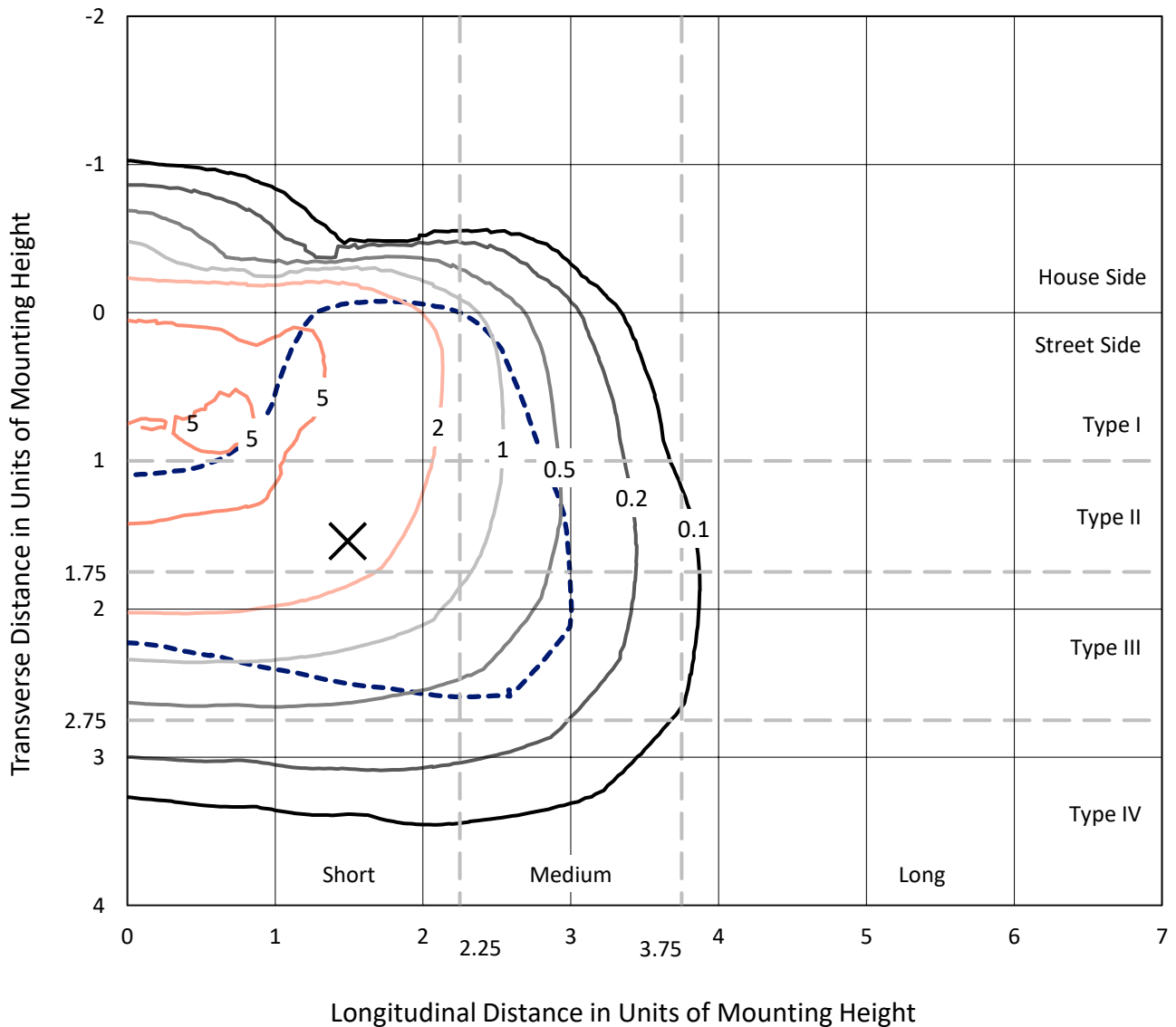
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

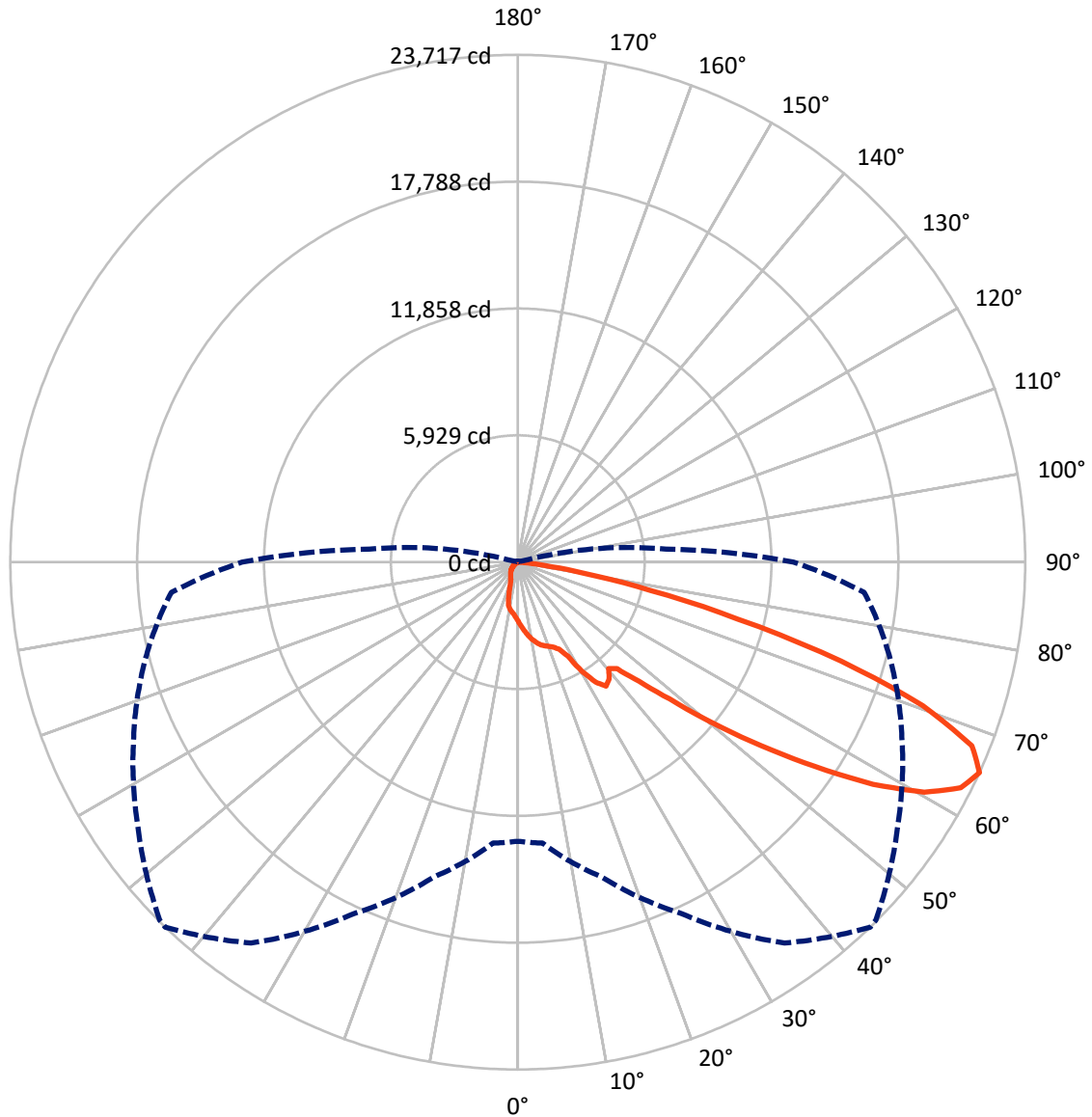
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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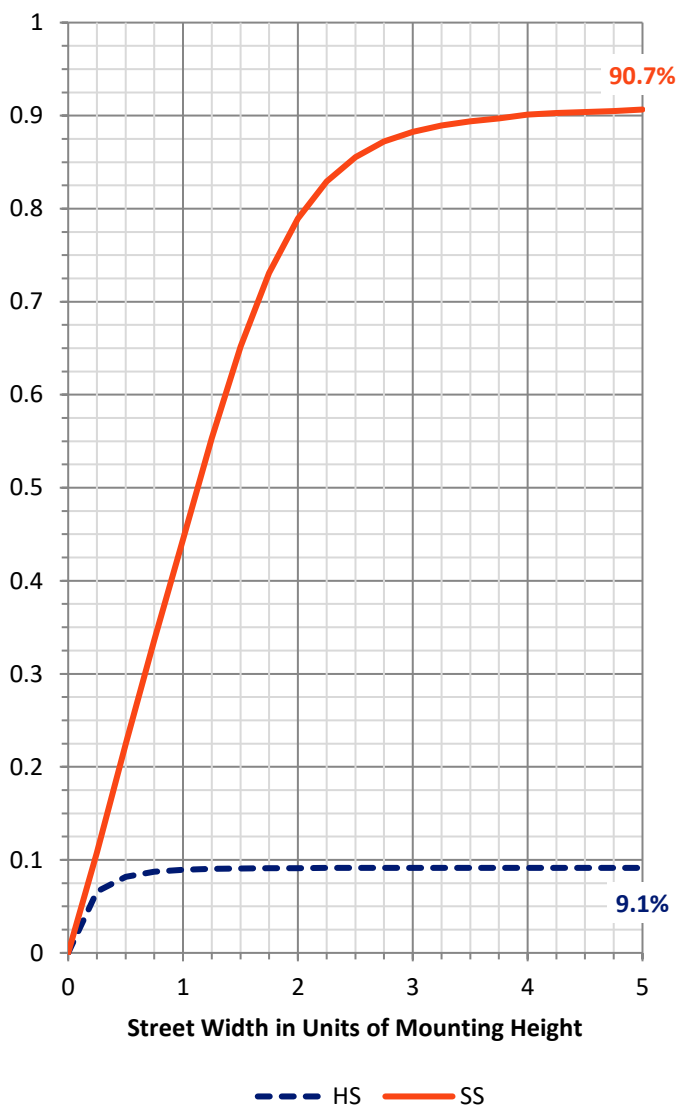
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2729.5	0.0	2729.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	26895.5	0.0	26895.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	29625.0	0.0	29625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	0.9
10°-20°	825.3	2.8
20°-30°	1399.5	4.7
30°-40°	2326.9	7.9
40°-50°	4062.8	13.7
50°-60°	7937.3	26.8
60°-70°	9209.1	31.1
70°-80°	3353.5	11.3
80°-90°	236.3	0.8
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°	29625.0	100.0
0°-180°	29625.0	100.0

Coefficient of Utilization



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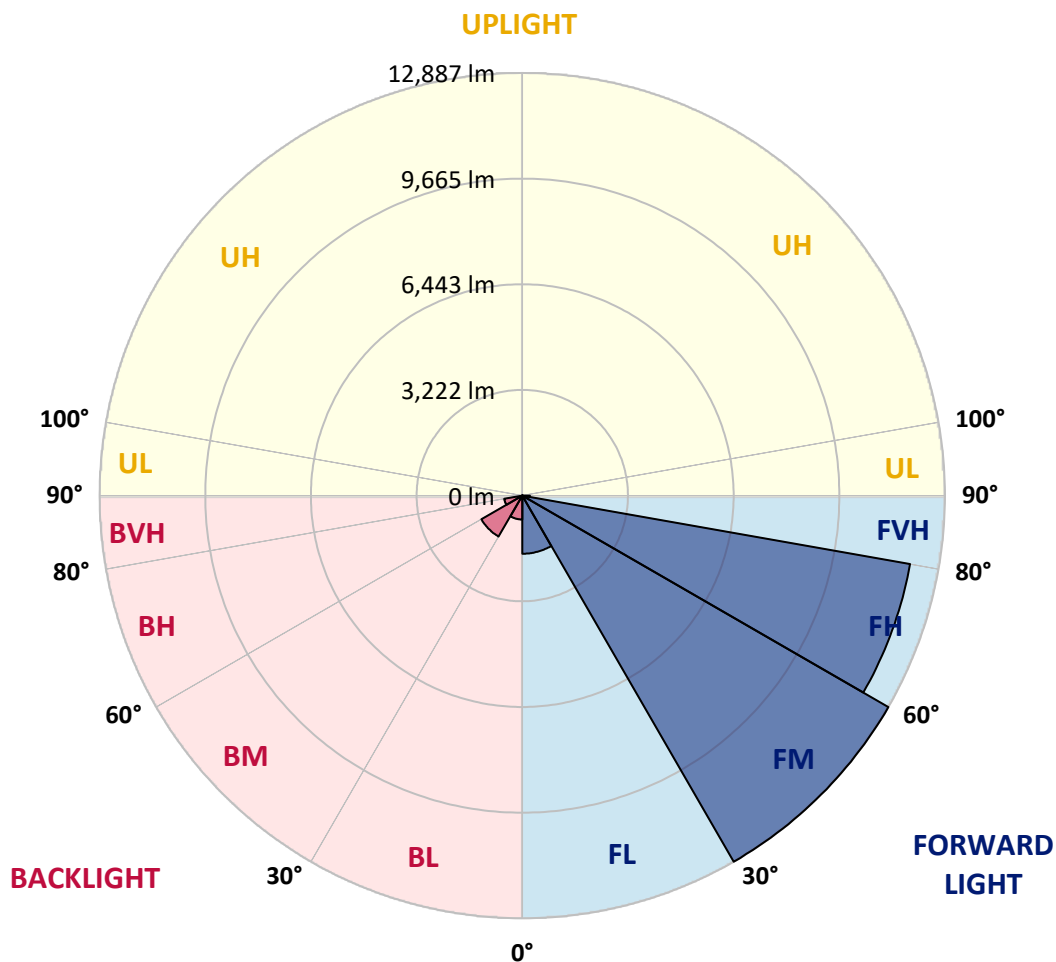
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.8	6.0			
FM (30°-60°)	12886.9	43.5			
FH (60°-80°)	12003.7	40.5			G5
FVH (80°-90°)	233.1	0.8			G3/500
BL (0°-30°)	727.2	2.5	B2/1000		
BM (30°-60°)	1440.1	4.9	B2/2500		
BH (60°-80°)	559.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2
2.5°	3103.6	3090.0	3083.2	3047.0	3019.8	2985.8	2985.8	2942.8	2893.0	2838.7	2788.9
5°	3449.9	3427.3	3397.8	3366.1	3302.8	3212.2	3212.2	3121.7	3017.5	2924.7	2822.9
7.5°	3782.7	3762.3	3712.5	3651.4	3547.2	3452.2	3445.4	3314.1	3189.6	3049.2	2904.3
10°	4074.7	4058.8	4015.8	3898.1	3789.5	3665.0	3662.7	3515.5	3370.7	3198.6	3019.8
12.5°	4278.4	4280.7	4224.1	4110.9	3970.6	3852.8	3843.8	3698.9	3547.2	3361.6	3142.0
15°	4423.3	4423.3	4364.4	4237.7	4110.9	4006.8	3997.7	3871.0	3714.8	3513.3	3275.6
17.5°	4464.0	4477.6	4414.2	4301.1	4199.2	4108.6	4106.4	4000.0	3875.5	3680.8	3411.4
20°	4448.2	4461.8	4412.0	4323.7	4253.5	4201.5	4194.7	4151.7	4036.2	3852.8	3556.3
22.5°	4414.2	4427.8	4391.6	4339.5	4305.6	4321.4	4310.1	4346.3	4285.2	4063.4	3728.3
25°	4421.0	4434.6	4407.5	4378.0	4407.5	4504.8	4534.2	4690.4	4636.1	4330.5	3914.0
27.5°	4633.8	4661.0	4622.5	4636.1	4740.2	4966.6	5023.2	5292.6	5052.6	4670.0	4203.7
30°	5106.9	5088.8	5016.4	5082.0	5444.2	5924.1	5908.3	5865.3	5489.5	5061.7	4547.8
32.5°	5537.0	5521.2	5516.7	5799.6	6456.1	6689.3	6678.0	6261.4	5881.1	5509.9	4887.4
35°	5711.4	5650.2	5636.6	6322.6	7420.5	7112.6	7042.4	6424.4	6356.5	5998.8	5233.7
37.5°	6236.5	6193.5	5983.0	6408.6	7035.6	6933.8	6879.4	6705.1	6863.6	6431.2	5625.3
40°	7318.6	7198.6	7008.5	6591.9	6490.1	6533.1	6587.4	7065.1	7463.5	7022.0	6148.2
42.5°	8663.2	8636.1	8282.9	7506.5	6743.6	6802.5	6872.6	7816.6	8325.9	7911.7	7001.7
45°	10277.3	10315.7	9806.4	8889.6	7889.0	7938.8	8040.7	8925.8	9494.0	9294.8	8344.1
47.5°	11744.1	11714.7	11542.7	10589.7	9666.1	9555.1	9720.4	10349.7	11110.3	11142.0	10010.1
50°	13220.1	13376.3	13120.5	12747.0	12061.1	11827.9	11766.8	12074.7	13233.7	13082.0	12011.3
52.5°	15341.2	15422.7	14942.8	14847.7	15003.9	14247.8	14186.7	14261.4	15298.2	14777.5	13509.8
55°	16674.5	16627.0	16448.1	17190.6	17808.6	16864.7	16787.7	16486.6	17011.8	15975.0	14951.8
57.5°	17095.6	17163.5	17580.0	18922.4	20384.7	19583.4	19443.0	18587.4	18247.8	17091.0	16278.4
60°	16907.7	17032.2	17930.9	19927.5	21955.8	21835.8	21715.8	20278.4	19135.2	18023.7	17208.8
62.5°	15569.8	15744.1	17181.6	19748.6	22487.7	23237.0	23087.6	21333.2	19726.0	18476.4	17371.7
65°	13048.0	13177.1	15241.6	18125.6	21731.7	23716.9	23662.6	21663.7	19818.8	18062.2	16255.7
67.5°	9301.6	9740.8	11653.6	15275.5	19495.1	22897.5	22990.3	21267.6	18947.3	16271.6	13462.3
70°	5847.2	6146.0	7517.8	10936.0	15628.7	20088.2	20393.8	19454.4	16443.6	12683.6	9011.8
72.5°	2788.9	3010.7	3988.7	6922.4	11031.1	15805.3	16047.5	15970.5	12715.3	7990.9	4649.7
75°	1242.8	1326.5	1903.8	3533.7	7121.6	10623.6	11250.7	11354.8	7945.6	3909.4	1808.7
77.5°	633.8	636.1	891.9	1711.4	3556.3	6338.4	6462.9	6827.4	4307.8	1722.7	629.3
80°	337.3	359.9	473.1	808.1	1844.9	3121.7	3105.8	3413.7	1910.6	844.4	210.5
82.5°	151.7	167.5	267.1	423.3	901.0	1183.9	1276.7	1396.7	819.5	538.8	92.8
85°	45.3	54.3	131.3	212.8	326.0	341.8	382.6	493.5	464.1	382.6	47.5
87.5°	6.8	6.8	54.3	58.9	47.5	61.1	63.4	70.2	149.4	140.4	24.9
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°	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2	2757.2
2.5°	2761.7	2745.9	2689.3	2641.8	2601.0	2576.1	2546.7	2528.6	2519.5	2512.7	2515.0
5°	2773.1	2734.6	2637.2	2560.3	2501.4	2438.0	2395.0	2370.1	2358.8	2340.7	2340.7
7.5°	2836.4	2775.3	2639.5	2521.8	2419.9	2333.9	2252.4	2223.0	2202.6	2198.1	2193.5
10°	2927.0	2850.0	2664.4	2501.4	2356.5	2238.8	2123.4	2021.5	1942.3	1894.7	1887.9
12.5°	3040.2	2929.2	2702.9	2487.8	2302.2	2093.9	1788.3	1582.3	1444.2	1401.2	1408.0
15°	3144.3	3024.3	2741.4	2476.5	2202.6	1736.3	1389.9	1154.5	1084.3	1077.5	1079.8
17.5°	3268.8	3126.2	2786.6	2460.7	1928.7	1326.5	1032.3	968.9	982.5	1005.1	1002.8
20°	3397.8	3234.8	2841.0	2365.6	1539.3	998.3	912.3	919.1	939.4	959.8	964.3
22.5°	3535.9	3359.4	2904.3	2136.9	1174.9	869.3	864.7	873.8	894.2	916.8	921.3
25°	3726.1	3515.5	2951.9	1838.1	889.6	803.6	812.7	828.5	846.6	871.5	876.1
27.5°	3970.6	3726.1	2976.8	1448.8	769.7	744.8	747.0	769.7	792.3	814.9	814.9
30°	4287.5	3977.3	2927.0	1095.6	710.8	688.2	679.1	692.7	722.1	744.8	747.0
32.5°	4570.4	4215.0	2795.7	837.6	667.8	636.1	613.5	615.7	627.0	640.6	642.9
35°	4853.4	4445.9	2571.6	704.0	622.5	586.3	552.3	534.2	525.2	518.4	525.2
37.5°	5215.6	4733.4	2272.8	640.6	584.0	538.8	491.2	452.7	421.1	400.7	405.2
40°	5681.9	5131.8	1919.6	599.9	547.8	493.5	430.1	380.3	326.0	307.9	298.8
42.5°	6451.6	5736.3	1548.4	565.9	511.6	446.0	366.7	298.8	249.0	230.9	235.4
45°	7667.2	6499.1	1193.0	529.7	475.4	393.9	307.9	235.4	194.7	185.6	190.2
47.5°	9279.0	7486.1	919.1	489.0	430.1	337.3	242.2	185.6	160.7	158.5	156.2
50°	10795.7	8405.2	767.4	443.7	375.8	280.7	199.2	156.2	140.4	138.1	138.1
52.5°	12167.5	9063.9	624.8	391.6	316.9	230.9	167.5	138.1	124.5	117.7	117.7
55°	13387.6	9494.0	507.1	328.2	249.0	183.4	144.9	124.5	108.7	99.6	97.3
57.5°	14308.9	9546.1	380.3	262.6	185.6	142.6	124.5	108.7	90.5	79.2	74.7
60°	14702.8	9095.6	280.7	199.2	138.1	113.2	99.6	88.3	67.9	56.6	54.3
62.5°	14306.7	8219.5	208.3	151.7	106.4	83.8	70.2	65.6	47.5	34.0	31.7
65°	12887.3	6954.1	165.3	115.4	79.2	61.1	45.3	43.0	29.4	15.8	13.6
67.5°	10324.8	5446.5	131.3	86.0	56.6	40.7	29.4	27.2	15.8	4.5	4.5
70°	6714.2	3481.6	106.4	63.4	36.2	27.2	18.1	13.6	9.1	2.3	0.0
72.5°	3320.9	1627.6	86.0	49.8	24.9	13.6	6.8	4.5	6.8	0.0	0.0
75°	1288.1	579.5	63.4	34.0	13.6	6.8	4.5	0.0	2.3	0.0	0.0
77.5°	427.8	192.4	38.5	18.1	9.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	158.5	74.7	20.4	11.3	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	63.4	29.4	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.7	18.1	9.1	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	13.6	9.1	6.8	4.5	2.3	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)