

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: P317421

Luminaire Tested: **GAN-SA7D-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52070 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

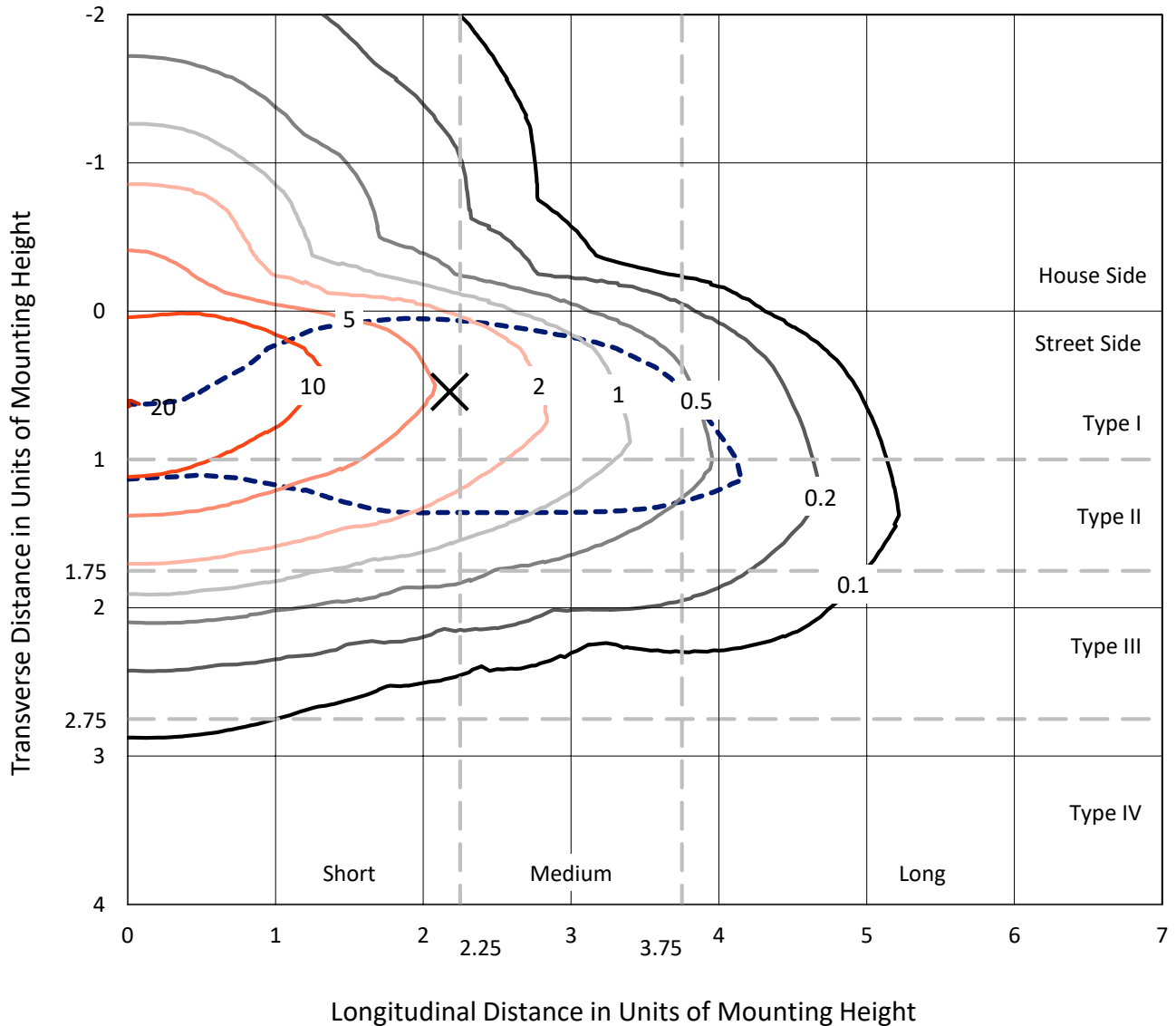
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

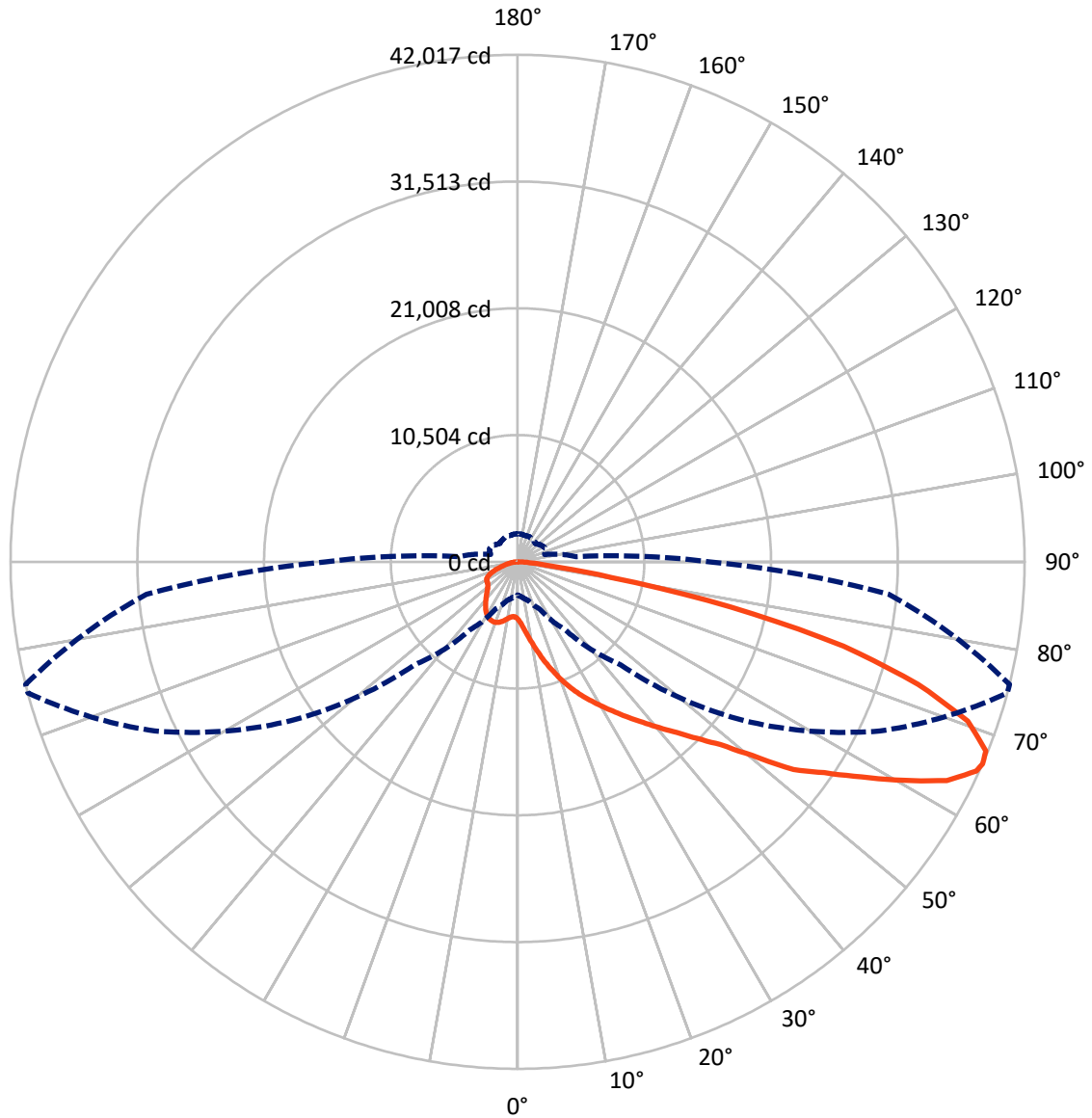
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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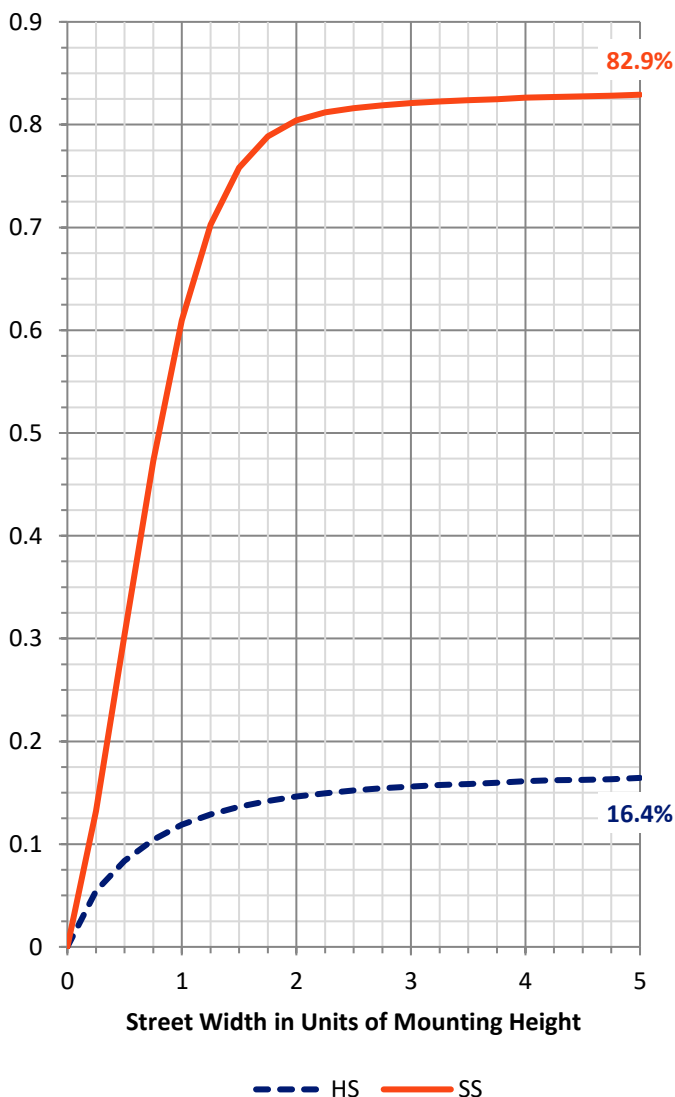
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8761.6	0.0	8761.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	43308.4	0.0	43308.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	52070.0	0.0	52070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.0	1.1
10°-20°	2270.8	4.4
20°-30°	4412.6	8.5
30°-40°	7202.4	13.8
40°-50°	9840.2	18.9
50°-60°	11461.8	22.0
60°-70°	10275.7	19.7
70°-80°	5192.9	10.0
80°-90°	838.6	1.6
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°	52070.0	100.0
0°-180°	52070.0	100.0

Coefficient of Utilization

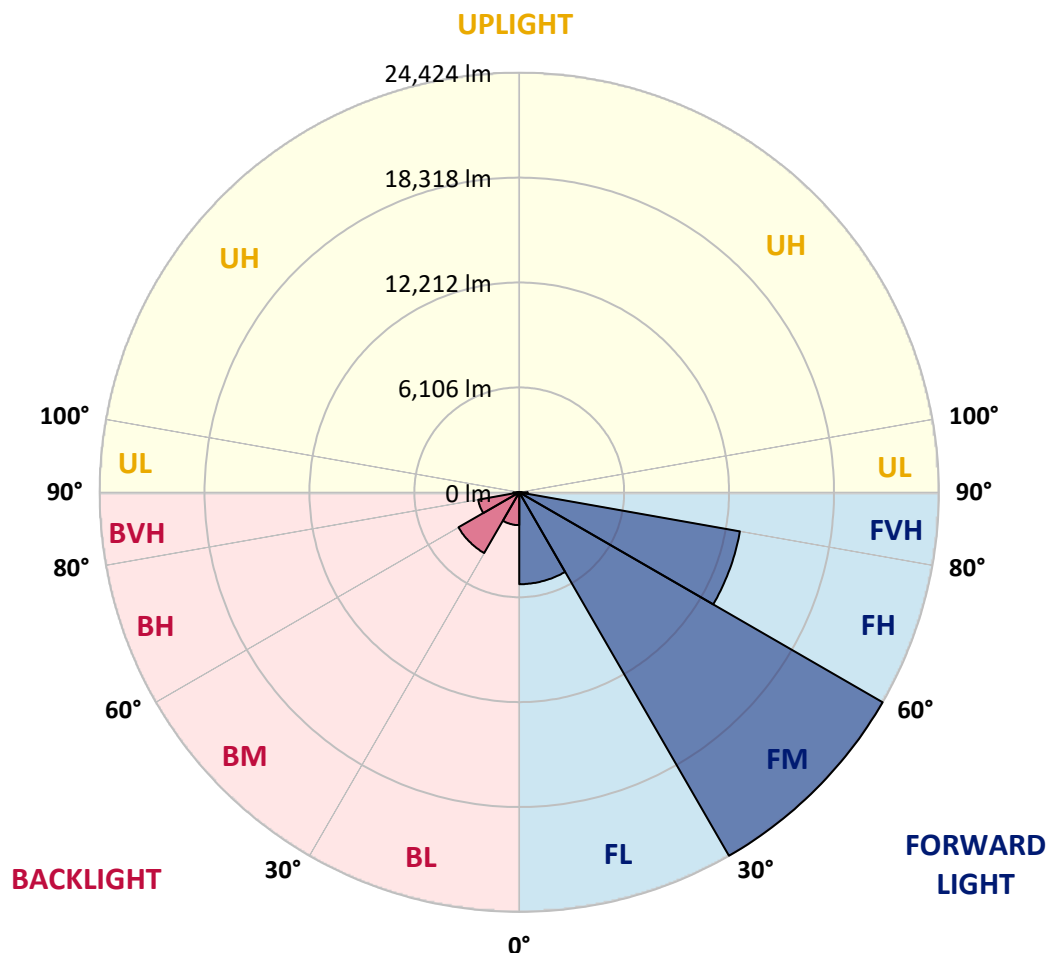


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5347.4	10.3			
FM (30°-60°)	24424.4	46.9			
FH (60°-80°)	13041.3	25.0			G5
FVH (80°-90°)	495.2	1.0			G3/500
BL (0°-30°)	1910.9	3.7	B3/2500		
BM (30°-60°)	4079.9	7.8	B3/5000		
BH (60°-80°)	2427.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	343.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2
2.5°	6312.5	6217.1	6208.2	6068.6	6036.8	5769.8	5573.6	5368.6	5135.2	5089.3	4905.4
5°	8108.5	8099.7	7977.7	7749.7	7571.1	7115.1	6664.3	6187.0	5663.8	5578.9	5165.3
7.5°	9724.2	9710.1	9616.4	9370.7	9112.6	8552.2	7908.8	7176.9	6328.4	6202.9	5517.1
10°	10951.0	10945.7	10913.9	10733.6	10514.4	9977.0	9266.4	8267.6	7100.9	6929.5	5957.2
12.5°	11898.5	11909.1	11930.3	11866.7	11762.4	11304.6	10576.3	9423.7	7924.7	7755.0	6446.9
15°	12540.2	12572.0	12681.6	12771.8	12826.6	12545.5	11840.2	10606.3	8847.4	8644.1	6989.6
17.5°	12863.7	12899.0	13088.2	13360.4	13611.4	13583.2	13022.8	11734.1	9733.1	9536.8	7572.9
20°	13143.0	13169.5	13381.6	13708.7	14152.4	14348.6	14033.9	12819.5	10703.5	10470.2	8191.6
22.5°	13952.6	13986.2	14049.8	14235.4	14627.9	14988.5	14836.5	13846.5	11592.7	11375.3	8778.5
25°	15515.3	15555.9	15418.0	15260.7	15335.0	15586.0	15614.3	14783.4	12494.2	12248.5	9409.6
27.5°	17397.9	17456.2	17221.1	16816.3	16462.8	16365.5	16332.0	15550.6	13355.1	13070.5	10033.6
30°	19241.6	19342.4	19036.6	18511.6	17862.8	17406.7	17069.1	16301.9	14203.6	13931.4	10622.2
32.5°	21042.9	21002.3	20558.6	20045.9	19285.8	18714.8	17898.2	17108.0	15158.2	14845.3	11207.3
35°	22276.8	22290.9	21879.1	21271.0	20546.2	20107.8	19008.3	17977.7	16132.2	15844.1	11872.0
37.5°	23326.8	23261.4	22794.7	22227.3	21603.3	21415.9	20307.6	18935.8	17187.5	16872.9	12579.1
40°	23676.8	23600.8	23295.0	22886.7	22386.4	22370.5	21741.2	20021.2	18380.7	18069.6	13376.3
42.5°	23464.7	23367.5	23242.0	23130.6	22976.8	23047.5	23088.2	21293.9	19692.4	19344.2	14299.1
45°	22681.6	22534.9	22623.3	22865.5	23199.6	23599.1	24304.4	22702.8	21161.4	20869.7	15382.7
47.5°	21477.8	21345.2	21621.0	22138.9	23047.5	24058.7	25455.2	24258.4	22914.9	22625.0	16925.9
50°	19784.3	19823.2	20217.4	21159.6	22533.1	24270.8	26872.9	26317.8	25464.0	25193.5	19031.3
52.5°	17005.5	17012.5	18122.7	19669.4	21621.0	24161.2	27659.5	28949.9	28944.6	28617.6	21035.9
55°	14424.6	14581.9	15460.5	17516.3	20143.2	23722.8	28209.3	30229.8	31230.3	30846.7	22904.3
57.5°	11903.8	11995.7	12828.3	14893.0	18034.3	22554.3	28773.2	31765.9	33864.2	33622.0	25227.1
60°	9036.6	9178.0	10038.9	11946.2	15336.7	20480.8	28826.2	33369.2	37012.5	36768.6	27820.4
62.5°	5865.3	6109.2	6915.3	8702.5	12073.5	17498.7	27595.9	34417.5	39996.4	39909.8	30121.9
65°	3371.0	3554.9	4115.3	5494.1	8329.5	13754.6	24670.3	34014.5	41833.1	41783.6	30982.8
66°	2754.1	2869.0	3298.6	4293.8	6872.9	12078.8	22969.7	33164.2	42015.2	42016.9	30883.8
67.5°	2202.6	2253.8	2446.5	3074.1	5071.6	9574.0	19931.0	31288.6	41788.9	41850.8	30245.7
70°	1822.5	1849.0	1909.1	2061.2	2768.2	5773.4	14147.1	26415.0	39517.4	39565.1	27755.0
72.5°	1635.1	1651.0	1674.0	1695.2	1953.3	3226.1	8640.6	21131.3	34647.3	34709.2	23959.7
75°	1481.3	1490.2	1486.7	1488.4	1638.7	2055.9	4465.3	15776.9	28014.8	27891.1	18354.2
77.5°	1301.0	1309.9	1292.2	1295.7	1449.5	1580.3	2222.0	11044.7	18905.8	18032.5	10341.2
80°	1099.5	1106.6	1099.5	1111.9	1262.2	1193.2	1292.2	6213.5	8359.5	7907.0	3676.9
82.5°	830.8	860.9	882.1	931.6	1039.4	848.5	864.4	2420.0	2545.5	2423.5	1127.8
85°	364.2	443.7	664.7	712.4	781.3	509.1	567.4	986.4	1035.9	1004.1	410.1
87.5°	95.5	104.3	328.8	413.6	433.1	229.8	295.2	449.0	473.7	449.0	136.1
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°	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2	4755.2
2.5°	4808.2	4721.6	4566.0	4428.1	4323.8	4253.1	4182.4	4147.1	4125.9	4104.6	4108.2
5°	4962.0	4787.0	4520.1	4330.9	4224.8	4157.7	4122.3	4108.2	4099.3	4078.1	4078.1
7.5°	5193.6	4946.1	4578.4	4383.9	4300.9	4249.6	4228.4	4221.3	4210.7	4186.0	4189.5
10°	5485.2	5138.8	4700.4	4511.2	4435.2	4378.6	4348.6	4338.0	4318.5	4290.3	4293.8
12.5°	5828.2	5377.4	4861.2	4663.2	4571.3	4495.3	4445.8	4415.8	4382.2	4345.1	4346.8
15°	6202.9	5637.3	5034.5	4799.4	4673.9	4567.8	4488.2	4437.0	4383.9	4338.0	4336.2
17.5°	6583.0	5888.3	5167.0	4873.6	4703.9	4564.3	4456.4	4376.9	4311.5	4254.9	4249.6
20°	6993.1	6114.5	5241.3	4866.5	4647.3	4481.2	4338.0	4239.0	4166.5	4109.9	4101.1
22.5°	7410.3	6326.7	5253.7	4794.1	4521.8	4318.5	4168.3	4058.7	3984.4	3926.1	3904.9
25°	7792.1	6491.1	5202.4	4654.4	4346.8	4127.6	3980.9	3869.5	3809.4	3740.5	3719.3
27.5°	8140.3	6606.0	5099.9	4475.9	4150.6	3934.9	3797.1	3701.6	3636.2	3583.2	3565.5
30°	8453.2	6667.8	4931.9	4263.7	3949.1	3752.9	3636.2	3570.8	3514.2	3447.1	3434.7
32.5°	8750.2	6667.8	4716.3	4032.2	3749.3	3592.0	3523.1	3482.4	3418.8	3353.4	3335.7
35°	9047.2	6627.2	4461.7	3790.0	3565.5	3477.1	3473.6	3425.8	3328.6	3240.2	3217.2
37.5°	9360.1	6544.1	4175.4	3563.7	3415.2	3425.8	3455.9	3349.8	3211.9	3086.4	3052.9
40°	9713.6	6429.2	3878.4	3367.5	3289.7	3402.9	3408.2	3240.2	2971.5	2856.6	2826.6
42.5°	10129.0	6314.3	3602.6	3194.3	3190.7	3333.9	3318.0	3003.4	2842.5	2784.2	2768.2
45°	10675.3	6248.9	3341.0	3029.9	3113.0	3222.6	3164.2	2872.5	2805.4	2771.8	2757.6
47.5°	11536.1	6282.5	3100.6	2899.1	3035.2	3111.2	2877.8	2819.5	2771.8	2731.1	2717.0
50°	12614.4	6263.0	2906.1	2808.9	2946.8	2994.5	2748.8	2750.6	2725.8	2679.9	2658.7
52.5°	13425.8	6111.0	2780.6	2757.6	2869.0	2787.7	2667.5	2683.4	2671.0	2603.9	2580.9
55°	14208.9	5980.2	2717.0	2738.2	2812.4	2529.6	2572.0	2610.9	2598.5	2533.1	2522.5
57.5°	15182.9	5955.4	2678.1	2743.5	2764.7	2400.6	2480.1	2531.4	2522.5	2494.3	2488.9
60°	16376.2	5962.5	2642.7	2752.3	2711.7	2305.1	2393.5	2458.9	2464.2	2458.9	2455.4
62.5°	17032.0	5769.8	2554.4	2727.6	2618.0	2222.0	2303.3	2398.8	2400.6	2411.2	2409.4
65°	16475.1	5193.6	2390.0	2641.0	2460.7	2153.1	2225.6	2329.9	2303.3	2351.1	2351.1
66°	15934.2	4861.2	2308.6	2584.4	2393.5	2126.6	2200.8	2294.5	2260.9	2326.3	2326.3
67.5°	14829.4	4300.9	2161.9	2464.2	2298.0	2089.4	2172.5	2236.2	2190.2	2287.4	2280.4
70°	12810.7	3326.8	1866.7	2192.0	2140.7	2034.6	2133.6	2119.5	2052.3	2200.8	2172.5
72.5°	10800.8	2527.8	1499.0	1834.9	1902.1	1965.7	2078.8	1971.0	1886.2	1990.5	1928.6
75°	8380.8	1900.3	1184.4	1426.5	1606.9	1857.9	2013.4	1799.5	1677.6	1667.0	1633.4
77.5°	4530.7	1304.6	938.7	1088.9	1276.3	1723.5	1969.2	1615.7	1431.9	1389.4	1362.9
80°	1794.2	848.5	682.3	825.5	892.7	1529.1	1863.2	1401.8	1180.8	1138.4	1097.8
82.5°	740.7	502.0	440.2	553.3	581.6	1308.1	1672.3	1149.0	912.1	1262.2	1339.9
85°	318.2	275.8	261.6	286.4	328.8	917.4	1331.1	876.8	984.6	878.6	698.2
87.5°	95.5	116.7	111.4	109.6	120.2	219.2	708.9	487.9	723.0	274.0	205.1
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)