

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: P318073

Luminaire Tested: **GAN-SA9A-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40884 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

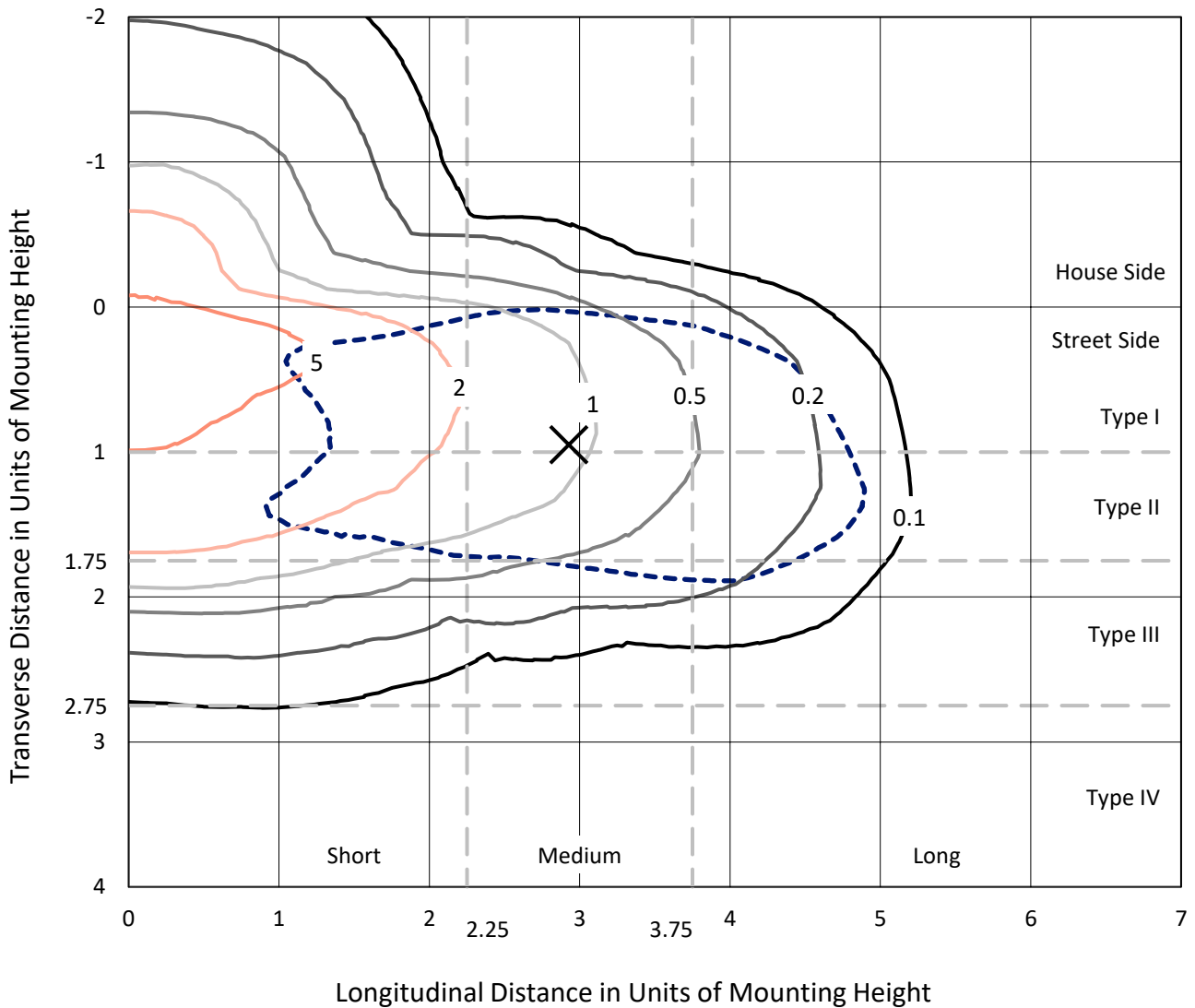
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318073
 CATALOG NUMBER: GAN-SA9A-740-U-T2

Iso-Footcandle Lines of Horizontal Illumination

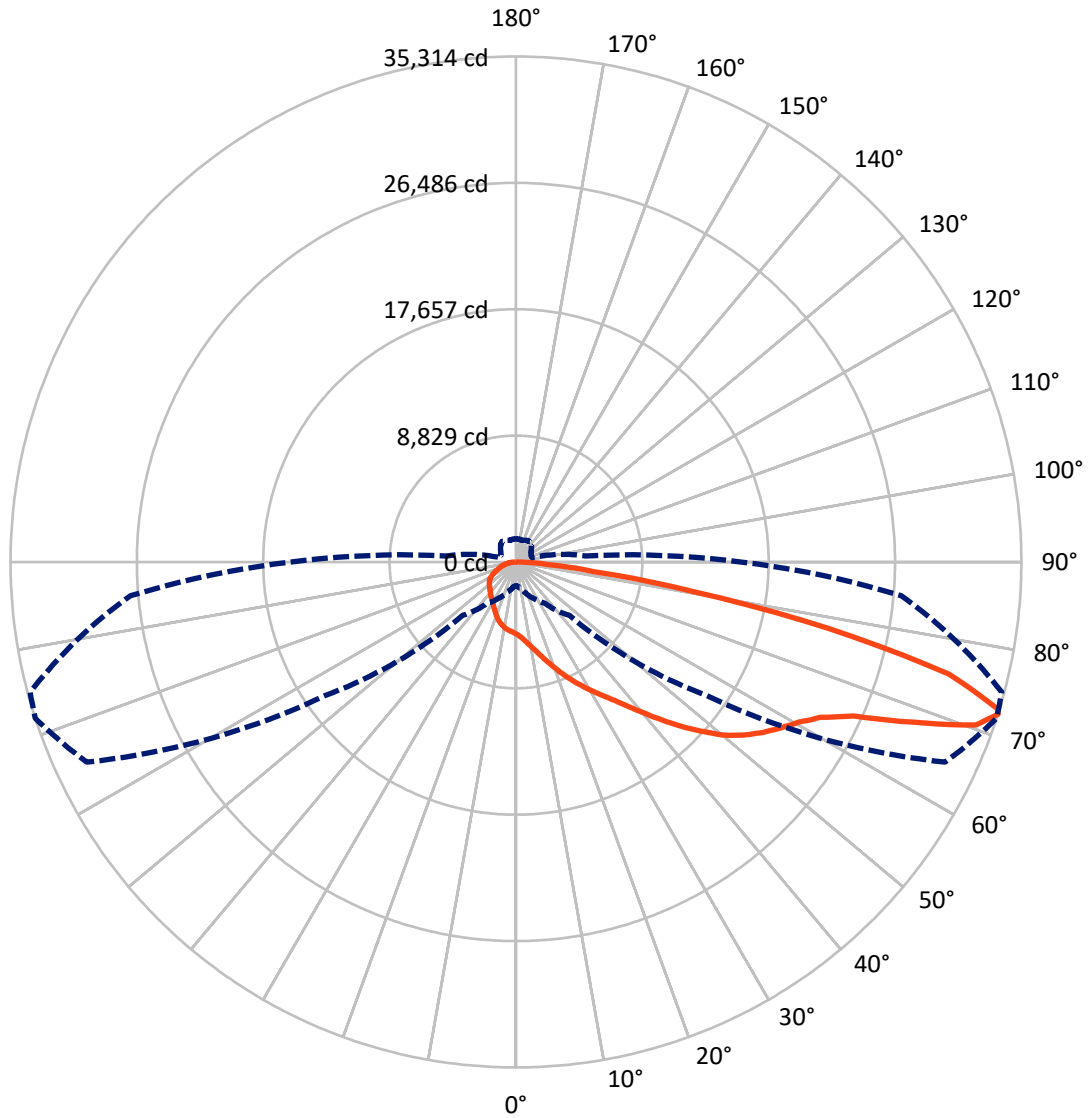
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P318073
CATALOG NUMBER: GAN-SA9A-740-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P318073
 CATALOG NUMBER: GAN-SA9A-740-U-T2

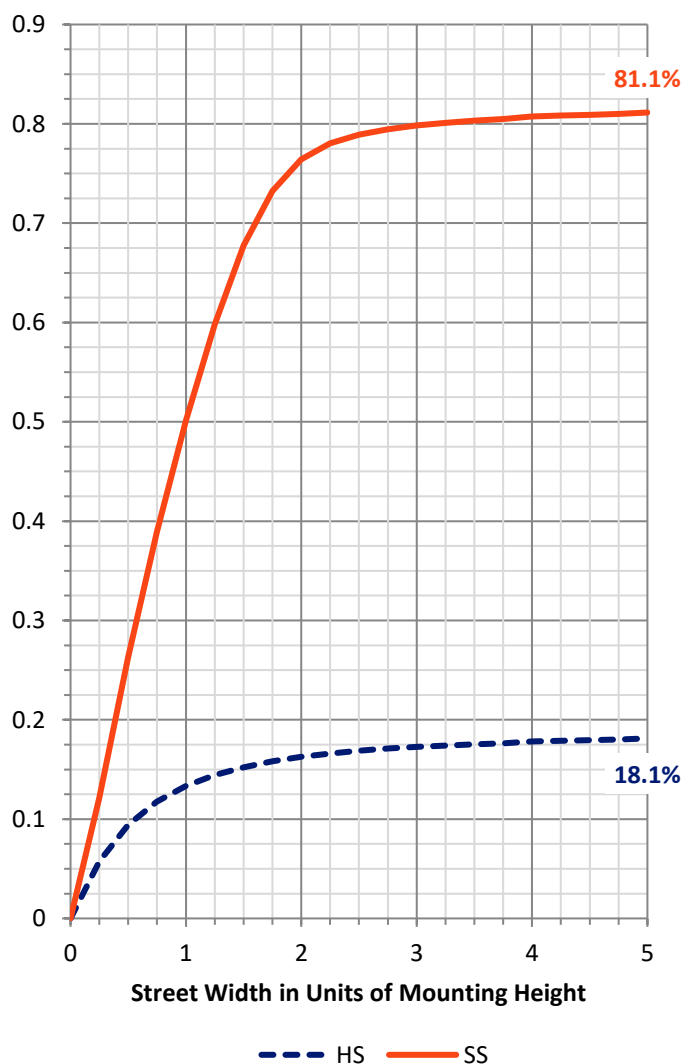
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7584.3	0.0	7584.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33299.7	0.0	33299.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	40884.0	0.0	40884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	1.2
10°-20°	1628.7	4.0
20°-30°	2854.0	7.0
30°-40°	4231.5	10.4
40°-50°	6189.0	15.1
50°-60°	8516.0	20.8
60°-70°	9480.8	23.2
70°-80°	6424.2	15.7
80°-90°	1055.9	2.6
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°	40884.0	100.0
0°-180°	40884.0	100.0

Coefficient of Utilization

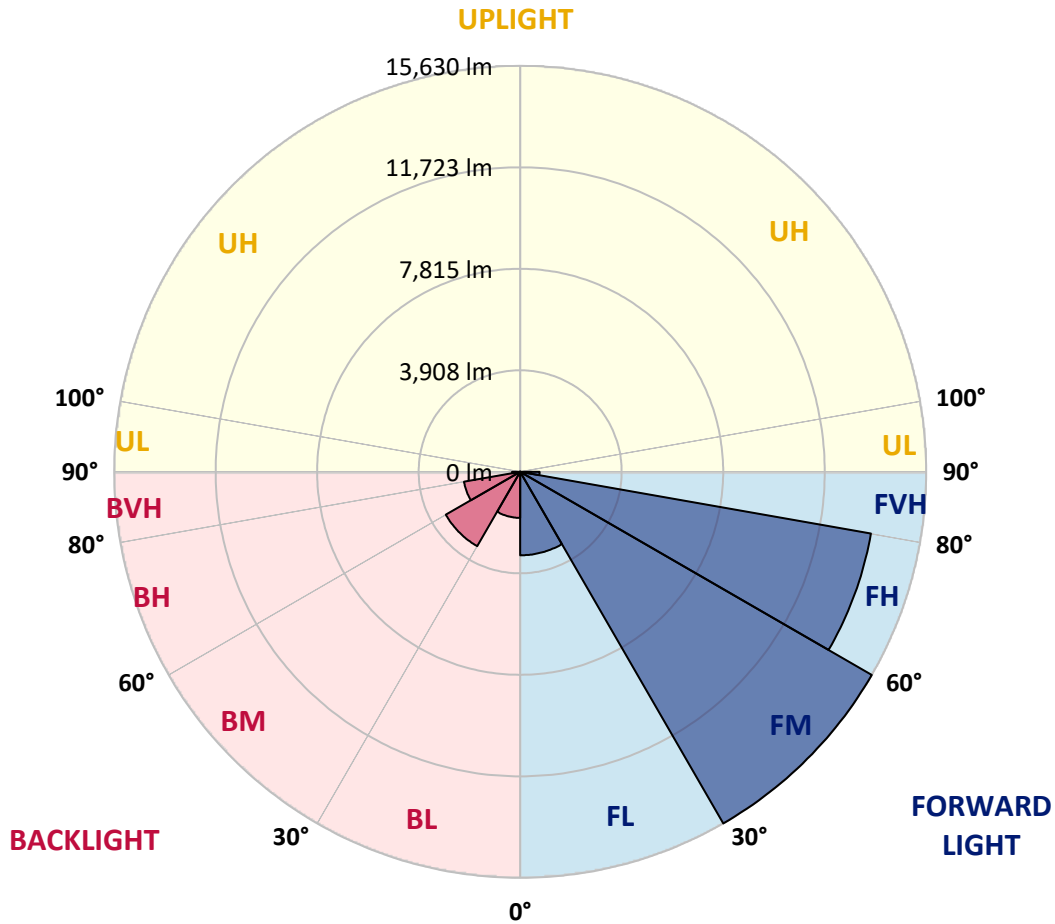


REPORT NUMBER: P318073
 CATALOG NUMBER: GAN-SA9A-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3213.7	7.9			
FM (30°-60°)	15630.5	38.2			
FH (60°-80°)	13710.8	33.5			G5
FVH (80°-90°)	744.8	1.8			G4/750
BL (0°-30°)	1772.9	4.3	B3/2500		
BM (30°-60°)	3306.0	8.1	B3/5000		
BH (60°-80°)	2194.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	311.1	0.8			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 III Medium





REPORT NUMBER: P318073

CATALOG NUMBER: GAN-SA9A-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8
2.5°	5556.3	5547.8	5518.3	5518.3	5462.0	5414.1	5324.0	5263.5	5191.7	5166.3	5081.9
5°	6094.0	6096.9	6060.3	6034.9	5951.9	5850.5	5697.1	5557.7	5418.3	5362.0	5188.9
7.5°	6545.9	6540.3	6530.4	6509.3	6431.9	6327.7	6120.8	5913.8	5708.3	5623.9	5325.4
10°	6835.9	6848.6	6857.0	6866.9	6834.5	6759.9	6564.2	6312.2	6043.4	5927.9	5488.7
12.5°	6982.3	7004.8	7044.3	7111.8	7165.3	7156.9	7014.7	6747.2	6427.7	6282.7	5692.8
15°	7068.2	7097.7	7159.7	7280.7	7431.4	7517.2	7479.2	7237.1	6881.0	6702.2	5942.0
17.5°	7121.7	7145.6	7241.3	7403.2	7627.0	7855.1	7955.0	7752.3	7393.4	7189.2	6227.8
20°	7158.3	7176.6	7296.2	7486.3	7776.3	8139.5	8418.2	8367.5	7957.9	7693.2	6526.2
22.5°	7239.9	7255.4	7369.4	7560.9	7881.8	8350.6	8864.4	8940.5	8553.3	8253.5	6845.8
25°	7468.0	7468.0	7563.7	7697.4	7998.7	8533.6	9241.7	9578.2	9161.5	8812.4	7141.4
27.5°	7903.0	7898.7	7933.9	7980.4	8208.4	8719.4	9578.2	10141.2	9792.1	9410.6	7428.6
30°	8418.2	8446.3	8450.6	8428.0	8535.0	8951.7	9889.3	10735.3	10427.0	10016.0	7722.8
32.5°	9081.2	9099.5	9078.4	9003.8	8988.3	9281.1	10194.7	11357.5	11114.0	10648.0	7991.7
35°	9923.0	9887.9	9821.7	9669.7	9524.7	9721.7	10543.9	11979.7	11885.4	11412.4	8361.9
37.5°	10825.4	10826.8	10745.2	10400.3	10200.4	10284.8	11025.3	12685.0	12818.7	12321.8	8836.3
40°	11549.0	11587.0	11637.7	11184.4	10925.3	11042.2	11637.7	13502.9	13922.4	13400.1	9454.3
42.5°	12054.3	12098.0	12241.6	11957.2	11688.3	11905.1	12358.4	14375.7	15161.2	14644.6	10177.8
45°	12589.3	12613.2	12714.6	12592.1	12420.4	12908.8	13170.7	15279.4	16471.8	15970.6	10987.3
47.5°	13152.4	13177.7	13281.9	13200.2	13110.1	13846.4	14018.1	16131.1	17727.5	17427.6	11851.6
50°	13847.8	13864.7	13963.2	13815.4	13843.6	14553.1	14775.5	16912.4	19043.7	18736.8	12718.8
52.5°	14796.6	14800.8	14937.4	14803.6	14671.3	15071.1	15427.2	17648.6	20075.6	19930.6	13585.9
55°	15539.9	15584.9	16032.6	16004.4	15928.4	15541.3	15972.0	18349.7	20996.2	21065.2	14506.6
57.5°	15065.5	15241.4	16148.0	16787.1	17409.3	16711.1	16708.3	19139.4	21852.1	22178.7	15518.8
60°	13194.6	13433.9	14769.8	16187.4	18134.3	18746.7	18237.1	20103.7	22716.4	23282.4	16787.1
62.5°	9423.3	9817.5	11627.8	13891.4	17140.4	20095.3	21348.1	21633.9	23891.9	24560.6	18435.6
65°	4763.7	5062.2	6579.7	9306.5	13694.3	19214.0	24729.5	24984.3	25934.5	26528.6	20973.7
67.5°	2894.3	3006.9	3747.4	5176.2	8395.7	14966.9	25833.1	30568.7	29887.4	30202.7	24592.9
70°	2132.7	2215.8	2677.5	3437.7	4828.5	8782.8	22446.2	34554.0	34106.3	34071.1	27267.6
72°	1661.1	1721.6	2129.9	2777.4	3530.6	5269.1	16269.1	33082.9	35314.2	35136.8	27022.7
72.5°	1575.2	1628.7	2000.4	2614.1	3336.3	4776.4	14627.7	32090.5	35226.9	35146.7	26705.9
75°	1240.2	1278.2	1480.9	2021.5	2611.3	2709.9	8015.6	24868.9	31250.1	32549.4	24020.0
77.5°	1026.2	1031.9	1138.8	1471.1	2035.6	1915.9	3937.4	17254.5	22377.2	23806.0	17015.2
80°	836.2	843.2	893.9	1031.9	1540.1	1417.6	1869.5	9921.6	12528.7	12544.2	8091.6
82.5°	665.9	667.3	723.6	754.5	1106.5	1013.6	1071.3	4658.2	5474.6	5266.3	2908.4
85°	468.8	458.9	706.7	619.4	723.6	650.4	591.2	1844.1	2263.6	2165.1	910.8
87.5°	156.3	161.9	313.9	401.2	422.3	368.8	263.2	706.7	854.5	847.4	288.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318073
 CATALOG NUMBER: GAN-SA9A-740-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8	5029.8
2.5°	5055.1	5010.1	4943.9	4870.7	4813.0	4753.9	4710.2	4687.7	4662.4	4641.3	4666.6
5°	5108.6	5024.2	4883.4	4745.4	4644.1	4554.0	4489.2	4455.4	4424.5	4403.4	4406.2
7.5°	5195.9	5059.4	4822.9	4621.6	4480.8	4383.7	4317.5	4295.0	4275.3	4269.6	4276.7
10°	5288.8	5087.5	4742.6	4475.2	4314.7	4234.4	4204.9	4220.4	4234.4	4247.1	4261.2
12.5°	5394.4	5112.9	4625.8	4303.4	4166.9	4135.9	4165.5	4233.0	4282.3	4311.9	4330.2
15°	5532.4	5135.4	4490.6	4131.7	4040.2	4075.4	4175.3	4292.2	4378.0	4432.9	4441.4
17.5°	5659.1	5134.0	4317.5	3958.5	3937.4	4040.2	4190.8	4355.5	4470.9	4548.4	4563.8
20°	5790.0	5096.0	4116.2	3789.6	3833.2	4002.2	4197.8	4396.3	4535.7	4625.8	4646.9
22.5°	5912.4	5029.8	3895.2	3636.2	3746.0	3951.5	4171.1	4372.4	4511.8	4585.0	4607.5
25°	5995.5	4914.4	3671.3	3506.6	3668.5	3889.5	4083.8	4245.7	4349.9	4386.5	4392.1
27.5°	6037.7	4763.7	3460.2	3394.0	3588.3	3788.2	3921.9	4002.2	4031.7	4028.9	4023.3
30°	6043.4	4565.2	3278.6	3302.5	3495.4	3639.0	3702.3	3686.8	3648.8	3584.1	3589.7
32.5°	6025.1	4341.4	3126.6	3215.2	3377.1	3457.4	3460.2	3385.6	3284.2	3181.5	3153.3
35°	6030.7	4121.8	2992.8	3116.7	3233.5	3268.7	3236.4	3126.6	2988.6	2856.3	2828.1
37.5°	6092.6	3930.4	2877.4	3002.7	3074.5	3082.9	3036.5	2921.0	2819.7	2690.2	2678.9
40°	6240.4	3793.8	2767.6	2874.6	2915.4	2919.6	2853.5	2771.8	2780.3	2711.3	2709.9
42.5°	6506.5	3734.7	2670.5	2740.8	2766.2	2774.6	2723.9	2671.9	2745.1	2700.0	2684.5
45°	6850.0	3748.8	2588.8	2609.9	2656.4	2695.8	2664.8	2601.5	2629.6	2434.0	2369.2
47.5°	7247.0	3838.9	2524.0	2497.3	2577.5	2652.2	2604.3	2508.6	2408.6	2214.4	2177.7
50°	7711.5	3978.2	2464.9	2386.1	2491.7	2593.0	2545.2	2408.6	2258.0	2163.7	2151.0
52.5°	8195.8	4148.6	2405.8	2263.6	2383.3	2548.0	2524.0	2386.1	2200.3	2107.4	2090.5
55°	8744.8	4320.3	2331.2	2121.4	2266.4	2526.9	2514.2	2304.4	2156.6	2104.5	2091.9
57.5°	9427.5	4516.0	2232.7	1973.6	2156.6	2450.8	2411.4	2255.2	2111.6	2072.2	2067.9
60°	10317.2	4804.6	2090.5	1816.0	2022.9	2334.0	2325.6	2183.4	2039.8	2011.6	2006.0
62.5°	11651.7	5281.8	1894.8	1658.3	1873.7	2135.5	2212.9	2086.2	1963.8	1962.4	1965.2
65°	13721.1	5999.7	1682.2	1520.3	1723.1	1968.0	2082.0	1986.3	1886.4	1914.5	1918.7
67.5°	16119.8	6595.2	1473.9	1385.2	1569.6	1808.9	1963.8	1886.4	1783.6	1856.8	1858.2
70°	16918.0	6063.1	1290.9	1251.5	1410.5	1655.5	1835.7	1776.5	1672.4	1745.6	1738.5
72°	15744.0	4894.7	1172.6	1150.1	1290.9	1528.8	1721.6	1673.8	1571.0	1620.3	1602.0
72.5°	15373.8	4666.6	1143.1	1124.8	1258.5	1496.4	1692.1	1648.4	1545.7	1587.9	1571.0
75°	13714.0	4052.8	982.6	986.8	1098.0	1338.7	1526.0	1511.9	1406.3	1410.5	1404.9
77.5°	9947.0	2971.7	827.7	855.9	934.7	1176.9	1358.5	1350.0	1234.6	1213.5	1209.2
80°	4615.9	1516.1	674.3	687.0	768.6	984.0	1158.6	1147.3	1054.4	1027.6	1012.2
82.5°	1580.9	720.8	506.8	515.2	595.5	792.5	1005.1	998.1	920.7	868.6	836.2
85°	564.5	359.0	354.7	346.3	425.1	623.6	875.6	837.6	723.6	616.6	613.8
87.5°	183.0	153.4	183.0	181.6	247.8	422.3	636.3	542.0	525.1	436.4	427.9
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)