

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: P318413

Luminaire Tested: **GAN-SA9C-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63246 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

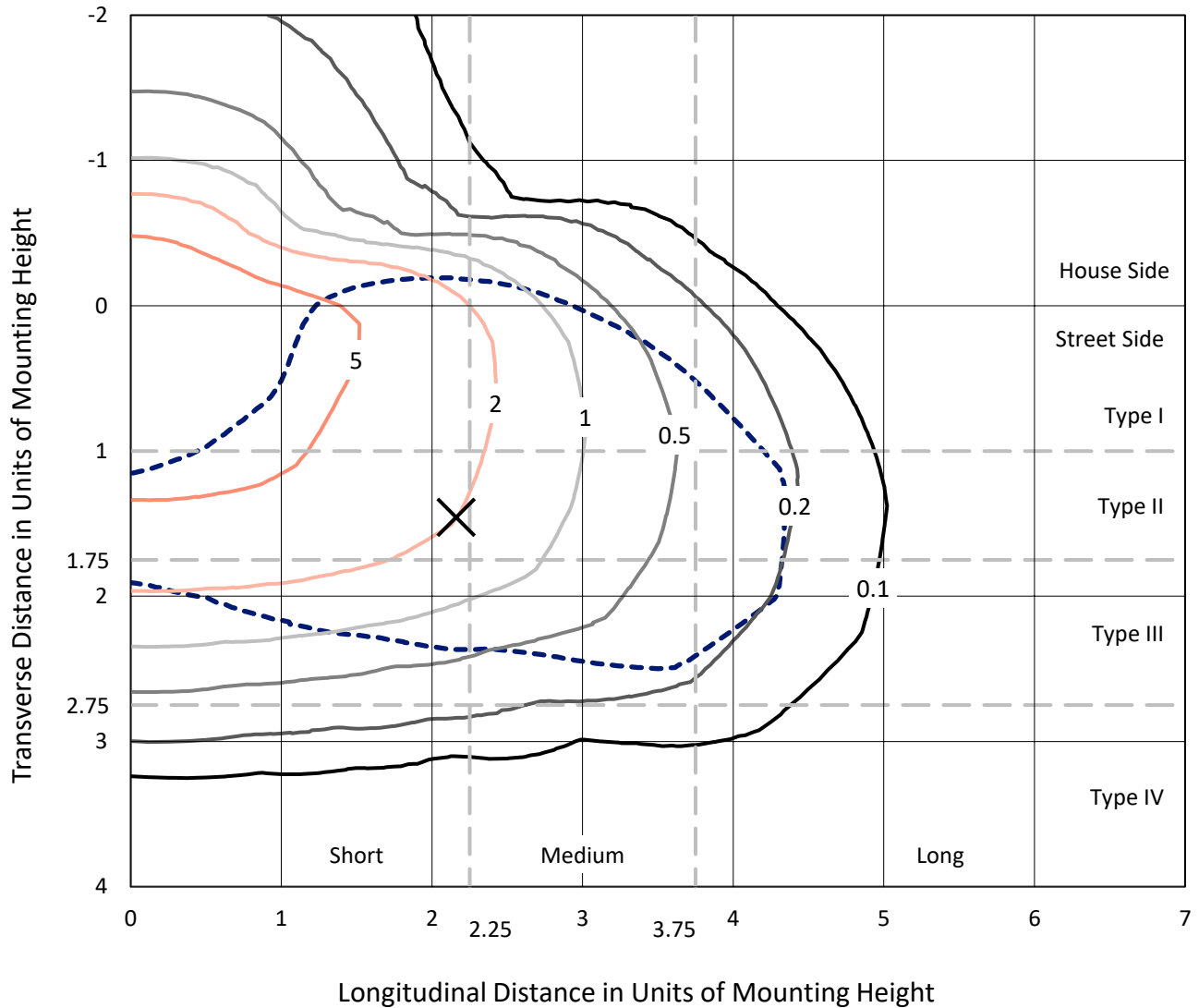
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

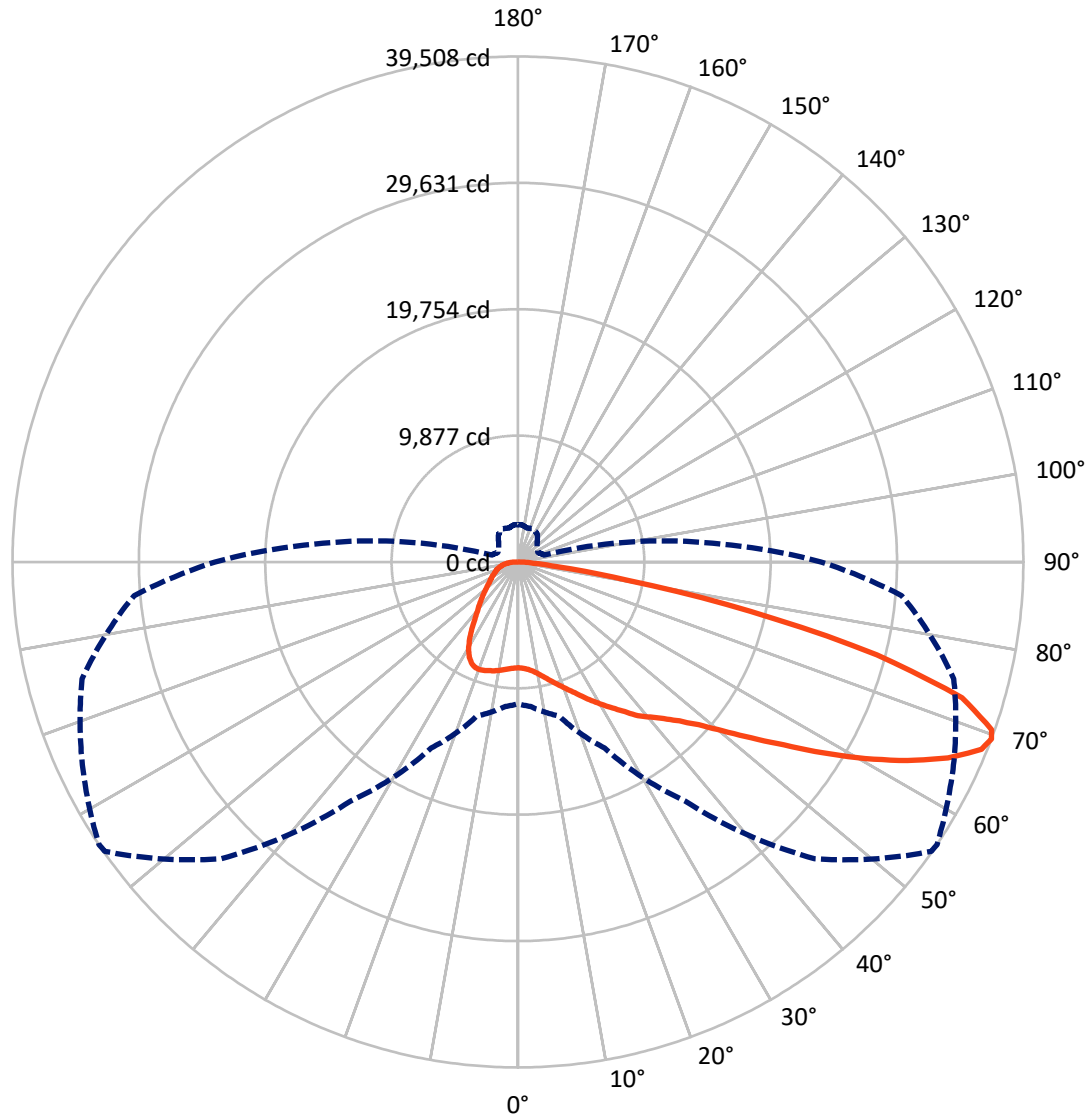
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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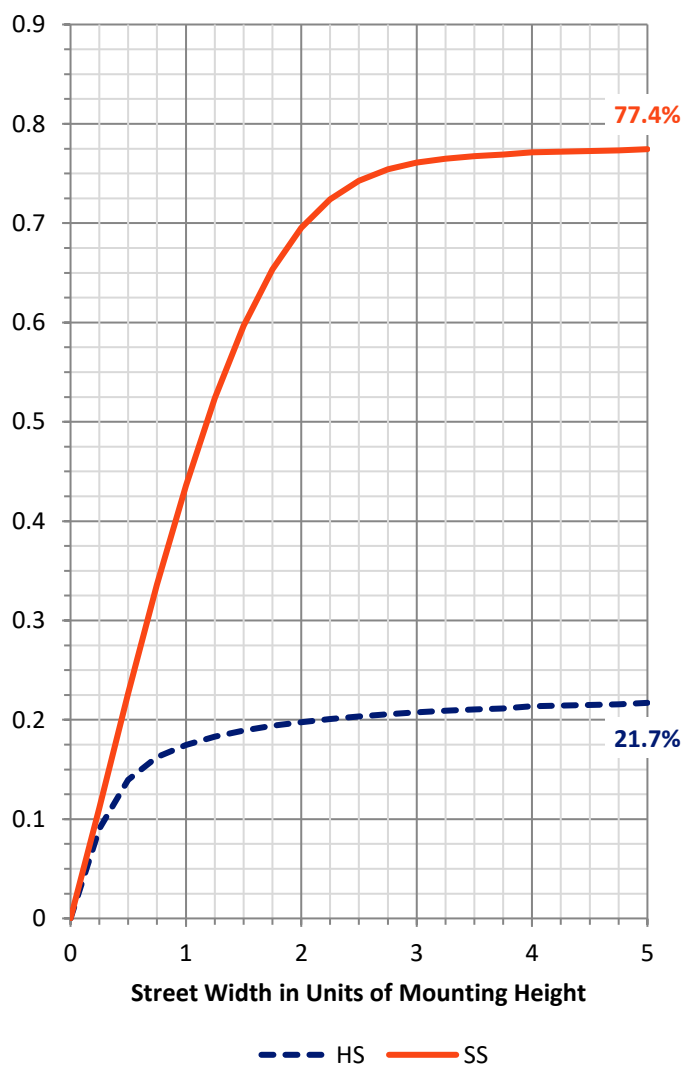
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14084.8	0.0	14084.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	49161.2	0.0	49161.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	63246.0	0.0	63246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.1	1.3
10°-20°	2611.4	4.1
20°-30°	4558.4	7.2
30°-40°	6548.1	10.4
40°-50°	9062.2	14.3
50°-60°	13277.3	21.0
60°-70°	16187.5	25.6
70°-80°	8949.5	14.2
80°-90°	1239.5	2.0
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°	63246.0	100.0
0°-180°	63246.0	100.0

Coefficient of Utilization

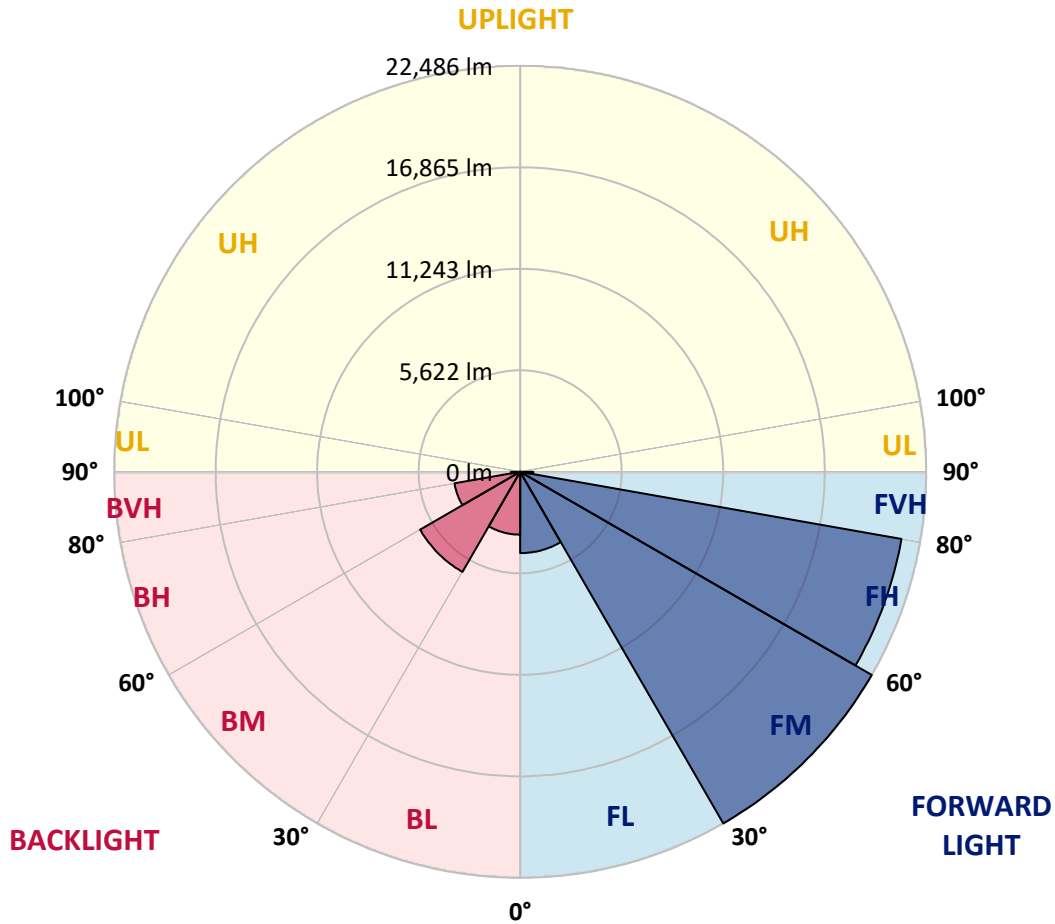


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4501.2	7.1			
FM (30°-60°)	22486.3	35.6			
FH (60°-80°)	21443.6	33.9			G5
FVH (80°-90°)	730.1	1.2			G4/750
BL (0°-30°)	3480.7	5.5	B4/5000		
BM (30°-60°)	6401.2	10.1	B4/8500		
BH (60°-80°)	3693.5	5.8	B4/5000		G4/5000
BVH (80°-90°)	509.4	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5
2.5°	8320.8	8329.5	8322.9	8340.4	8320.8	8333.8	8322.9	8322.9	8316.4	8296.8	8275.0
5°	8451.5	8468.9	8458.0	8475.4	8451.5	8455.8	8436.2	8436.2	8416.6	8375.2	8331.6
7.5°	8656.3	8675.9	8667.2	8684.6	8651.9	8651.9	8625.8	8623.6	8584.4	8516.8	8466.7
10°	8900.3	8926.5	8917.7	8943.9	8917.7	8926.5	8900.3	8900.3	8848.0	8752.2	8689.0
12.5°	9255.4	9288.1	9264.2	9262.0	9251.1	9268.5	9246.7	9242.4	9194.4	9063.7	8976.6
15°	9730.4	9765.3	9715.2	9710.8	9649.8	9643.3	9643.3	9636.7	9606.2	9449.4	9305.6
17.5°	10277.3	10288.2	10244.6	10174.9	10096.5	10046.3	10039.8	10057.2	10057.2	9874.2	9645.5
20°	10813.3	10832.9	10798.0	10719.6	10619.4	10545.3	10493.0	10527.9	10525.7	10307.8	9983.2
22.5°	11397.2	11442.9	11390.7	11290.4	11172.8	11090.0	10998.5	11029.0	11031.2	10763.2	10314.3
25°	12153.2	12111.8	12079.1	11937.5	11769.8	11684.8	11599.8	11630.3	11621.6	11253.4	10656.4
27.5°	12822.1	12830.8	12787.2	12636.9	12443.0	12255.6	12251.3	12270.9	12238.2	11763.2	10978.9
30°	13599.9	13604.3	13543.3	13408.2	13196.9	12955.0	12898.4	12931.0	12861.3	12246.9	11318.8
32.5°	14373.4	14395.2	14327.6	14164.2	13994.3	13700.2	13586.9	13608.6	13434.3	12741.5	11669.5
35°	15051.0	15081.5	15059.7	14950.8	14765.6	14512.8	14377.8	14364.7	14149.0	13347.2	12133.6
37.5°	15741.7	15770.0	15746.0	15654.5	15580.4	15312.5	15240.6	15240.6	14865.8	13966.0	12724.1
40°	16452.0	16495.5	16467.2	16340.8	16277.7	16155.6	15983.5	15942.1	15536.9	14708.9	13687.1
42.5°	17112.1	17168.8	17282.1	17208.0	17079.4	17096.9	16750.4	16728.7	16432.3	15807.0	14896.3
45°	18049.0	18131.8	18323.5	18266.9	18240.7	18144.9	17733.1	17713.5	17600.2	17284.2	16397.5
47.5°	19070.8	19184.1	19530.6	19541.5	19822.5	19641.7	19081.7	19014.2	19040.3	19053.4	18229.8
50°	20012.1	20136.3	20704.9	20972.9	21635.3	21674.5	20779.0	20718.0	20820.4	21121.1	20365.0
52.5°	20763.8	20920.6	21630.9	22458.8	23594.0	23916.4	22868.5	22822.7	22899.0	23417.5	22779.1
55°	21315.0	21484.9	22258.4	23766.1	25578.9	26147.5	25273.8	25230.2	25278.2	25938.4	25404.6
57.5°	21443.5	21484.9	22607.0	24646.3	27254.3	28620.4	28217.4	28130.2	27894.9	28470.1	28302.3
60°	20840.0	21005.6	22319.4	24955.7	28550.7	31058.5	31293.8	31184.8	30524.7	30995.3	30860.2
62.5°	19615.5	19911.9	21245.3	24485.1	29058.4	33049.9	34311.4	34180.7	33043.3	33348.4	32699.1
65°	17615.4	17741.8	19142.7	22861.9	28413.4	34324.5	37002.2	36936.8	35505.4	35028.2	33039.0
67.5°	14037.9	14275.4	15465.0	19469.6	25774.9	34174.1	39082.9	39076.4	37113.3	35651.3	31834.1
69°	11090.0	11336.2	12469.1	16038.0	22807.4	32799.3	39431.5	39507.8	37566.5	35272.2	30112.9
70°	8841.5	9126.9	9904.7	13508.4	20173.3	30986.6	39141.7	39279.0	37479.3	34646.9	28524.6
72.5°	3762.7	3993.7	4547.1	6963.4	12294.8	23138.6	35788.6	36307.2	35459.6	31709.9	23574.4
75°	1642.8	1714.7	1965.3	2838.9	5457.8	12593.3	28036.5	28995.2	30319.9	26803.3	17561.0
77.5°	1202.7	1233.2	1370.5	1666.8	2448.9	4756.3	18029.4	18587.2	21866.2	19504.4	10771.9
80°	930.3	952.1	1058.9	1224.5	1599.2	1923.9	8222.7	8702.0	12294.8	10018.0	4486.1
82.5°	740.8	756.0	830.1	902.0	1104.6	1165.6	2730.0	3028.5	4538.4	2767.0	1187.4
85°	688.5	705.9	732.1	658.0	708.1	684.1	1180.9	1235.4	1370.5	1087.2	496.8
87.5°	311.6	368.2	725.5	512.0	376.9	300.7	483.7	505.5	568.7	570.8	220.1
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°	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5	8268.5
2.5°	8288.1	8281.5	8292.4	8266.3	8299.0	8296.8	8285.9	8290.3	8312.0	8309.9	8312.0
5°	8338.2	8333.8	8346.9	8327.3	8366.5	8379.6	8381.8	8401.4	8425.3	8431.9	8431.9
7.5°	8464.6	8464.6	8471.1	8444.9	8471.1	8468.9	8458.0	8477.6	8501.6	8503.8	8501.6
10°	8682.4	8684.6	8673.7	8606.2	8584.4	8525.6	8471.1	8473.3	8503.8	8527.7	8534.3
12.5°	8957.0	8948.2	8900.3	8776.1	8684.6	8564.8	8508.1	8505.9	8536.5	8556.1	8562.6
15°	9270.7	9246.7	9122.5	8919.9	8758.7	8641.0	8549.5	8527.7	8510.3	8488.5	8490.7
17.5°	9567.0	9512.5	9305.6	9024.5	8854.6	8697.7	8521.2	8379.6	8281.5	8224.9	8207.5
20°	9867.7	9760.9	9462.4	9122.5	8906.8	8621.4	8281.5	7993.9	7815.3	7732.5	7717.2
22.5°	10142.2	9970.1	9608.4	9224.9	8865.4	8364.3	7830.5	7412.2	7163.8	7052.7	7061.4
25°	10410.2	10170.5	9760.9	9296.8	8656.3	7911.1	7203.0	6688.8	6401.2	6277.1	6272.7
27.5°	10645.5	10373.2	9926.5	9238.0	8266.3	7266.2	6460.1	5959.0	5719.3	5612.5	5595.1
30°	10915.7	10628.1	10146.6	9013.6	7695.4	6521.1	5734.5	5381.6	5211.6	5104.9	5085.3
32.5°	11244.7	10974.5	10327.4	8606.2	6965.6	5743.3	5168.1	4921.9	4767.2	4647.3	4625.5
35°	11724.0	11432.0	10373.2	8022.3	6163.8	5128.8	4751.9	4499.2	4290.0	4135.3	4120.1
37.5°	12325.3	12005.1	10268.6	7266.2	5385.9	4730.1	4405.5	4093.9	3821.6	3603.7	3568.8
40°	13192.5	12708.8	9978.8	6394.7	4812.9	4422.9	4067.8	3712.6	3374.9	3120.0	3069.9
42.5°	14234.0	13534.6	9534.3	5527.6	4392.4	4111.4	3732.2	3292.1	2969.7	2788.8	2762.7
45°	15558.7	14393.0	8917.7	4769.3	3978.4	3799.8	3370.6	2965.3	2764.9	2632.0	2610.2
47.5°	17070.7	15356.0	8270.6	4152.8	3627.7	3507.8	3080.8	2819.3	2660.3	2555.7	2536.1
50°	18929.2	16443.2	7584.3	3647.3	3274.7	3157.0	2943.5	2738.7	2612.4	2531.7	2512.1
52.5°	21025.2	17669.9	7089.7	3248.6	2982.7	2897.8	2871.6	2695.1	2592.7	2531.7	2512.1
55°	23282.4	18918.3	6555.9	2913.0	2730.0	2754.0	2823.7	2699.5	2629.8	2555.7	2527.4
57.5°	25541.8	20208.2	5961.1	2629.8	2529.6	2647.2	2791.0	2708.2	2649.4	2577.5	2551.3
60°	27328.4	21025.2	5039.5	2392.3	2370.5	2529.6	2712.6	2642.9	2566.6	2568.8	2564.4
62.5°	28162.9	20981.6	4022.0	2181.0	2211.5	2370.5	2586.2	2540.5	2477.3	2562.2	2568.8
65°	27694.4	19935.8	3130.9	1989.2	2041.5	2204.9	2455.5	2490.3	2512.1	2675.5	2697.3
67.5°	25729.2	17900.8	2425.0	1821.5	1886.8	2091.6	2468.6	2712.6	2740.9	2913.0	2910.8
69°	23696.4	15992.2	2106.9	1734.3	1810.6	2120.0	2638.5	2854.2	2747.4	2930.5	2904.3
70°	21992.6	14482.3	1936.9	1675.5	1775.7	2170.1	2751.8	2852.0	2714.8	2871.6	2828.1
72.5°	16937.8	10418.9	1642.8	1566.5	1658.1	2076.4	2784.5	2788.8	2638.5	2669.0	2594.9
75°	11617.2	6584.3	1433.6	1418.4	1479.4	1871.6	2679.9	2664.6	2440.2	2396.7	2335.7
77.5°	6405.6	3344.4	1217.9	1276.8	1318.2	1658.1	2435.9	2414.1	2228.9	2137.4	2115.6
80°	2470.7	1464.1	1028.4	1135.1	1161.3	1435.8	2135.2	2115.6	1960.9	1843.2	1810.6
82.5°	932.5	766.9	849.7	982.6	973.9	1185.3	1808.4	1797.5	1647.2	1475.0	1422.7
85°	431.4	459.7	673.2	810.5	747.3	878.0	1446.7	1466.3	1283.3	1078.5	1078.5
87.5°	183.0	257.1	477.2	612.2	503.3	592.6	1061.1	1013.1	930.3	644.9	605.7
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)