

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: P321043

Luminaire Tested: **GAN-SA9B-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52411 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

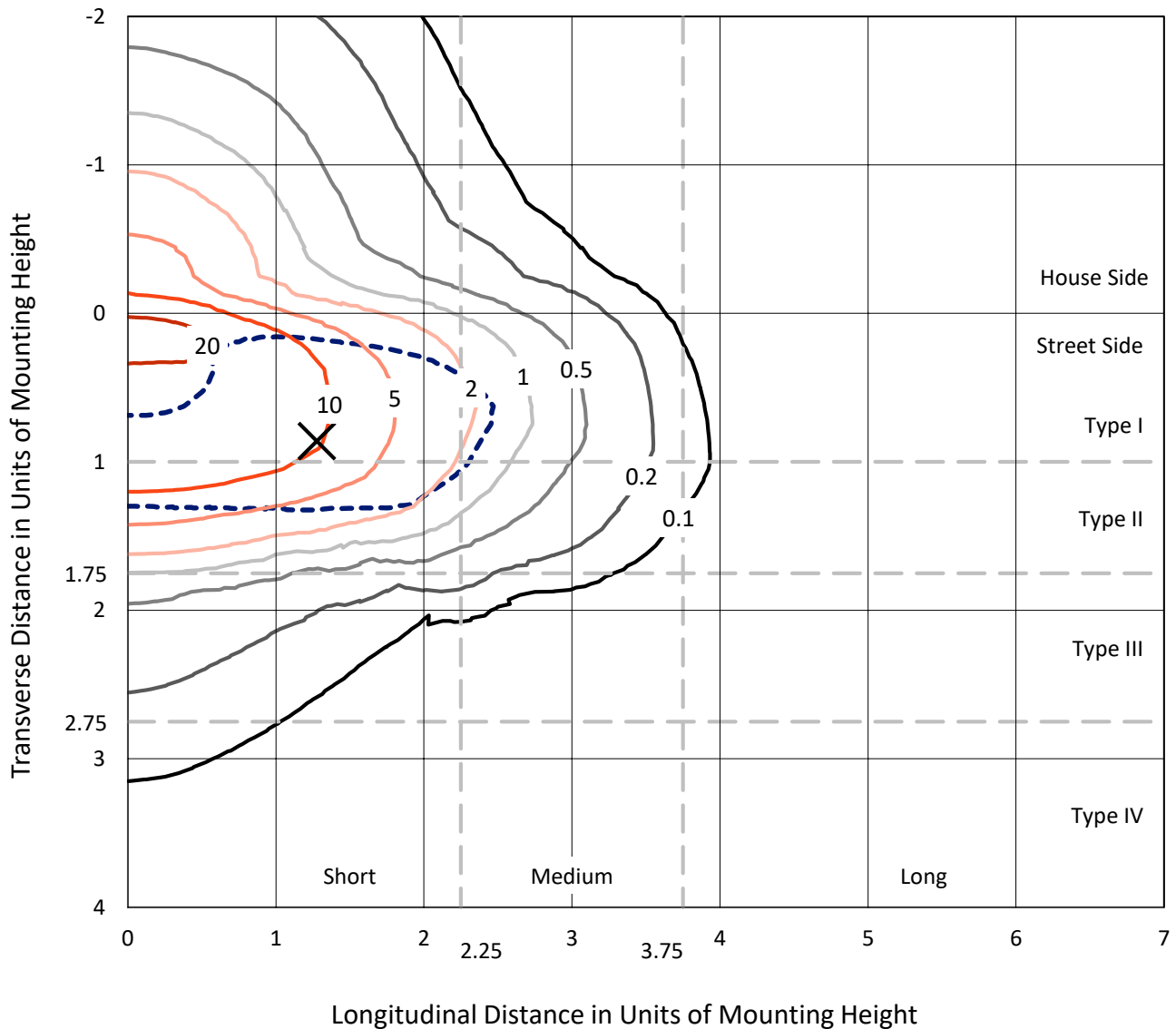
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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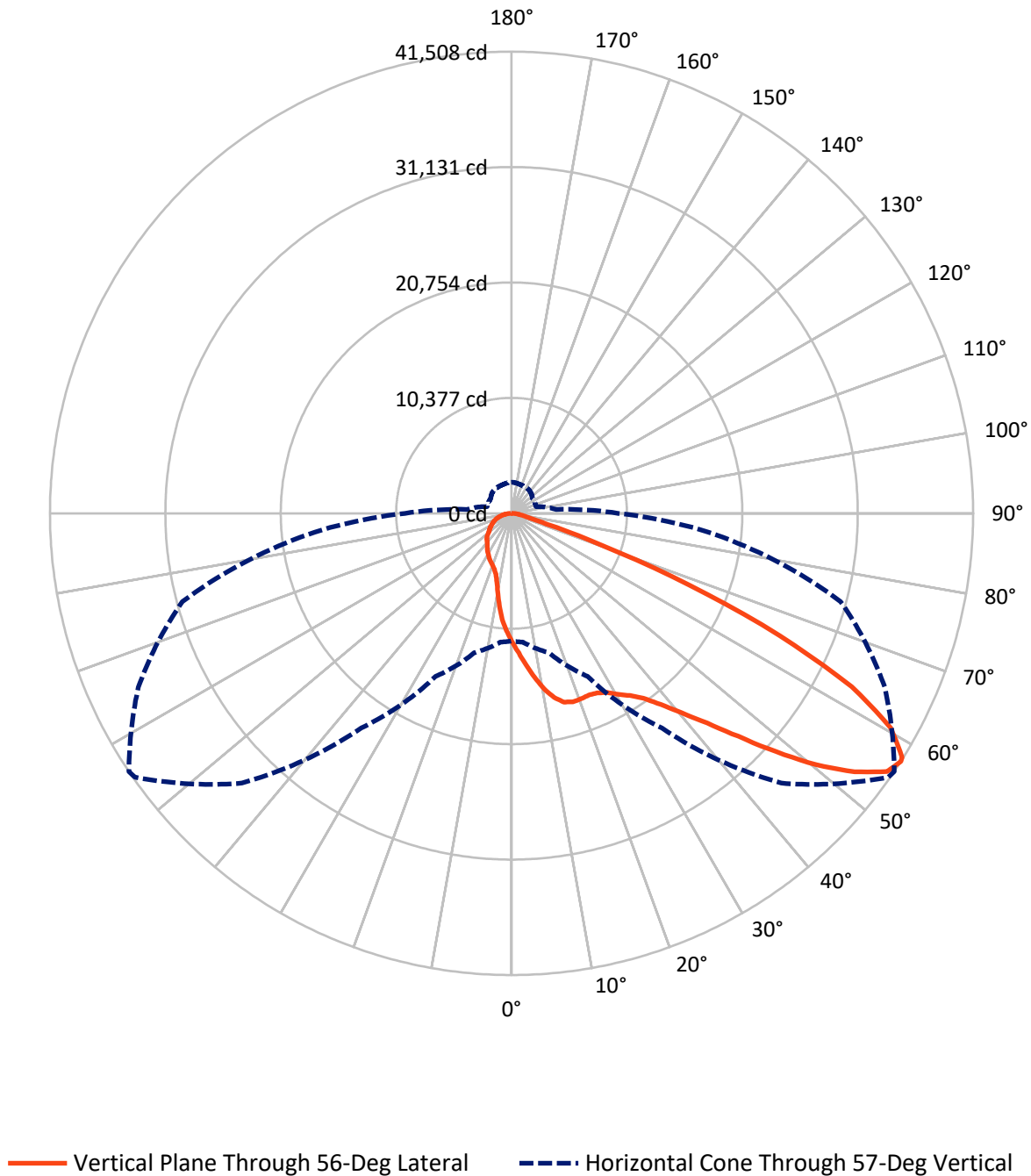
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9034.5	0.0	9034.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	43376.5	0.0	43376.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	52411.0	0.0	52411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.5	2.1
10°-20°	3139.5	6.0
20°-30°	5113.7	9.8
30°-40°	7644.4	14.6
40°-50°	11594.9	22.1
50°-60°	12995.9	24.8
60°-70°	7675.9	14.6
70°-80°	2514.9	4.8
80°-90°	621.3	1.2
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°	52411.0	100.0
0°-180°	52411.0	100.0

Coefficient of Utilization



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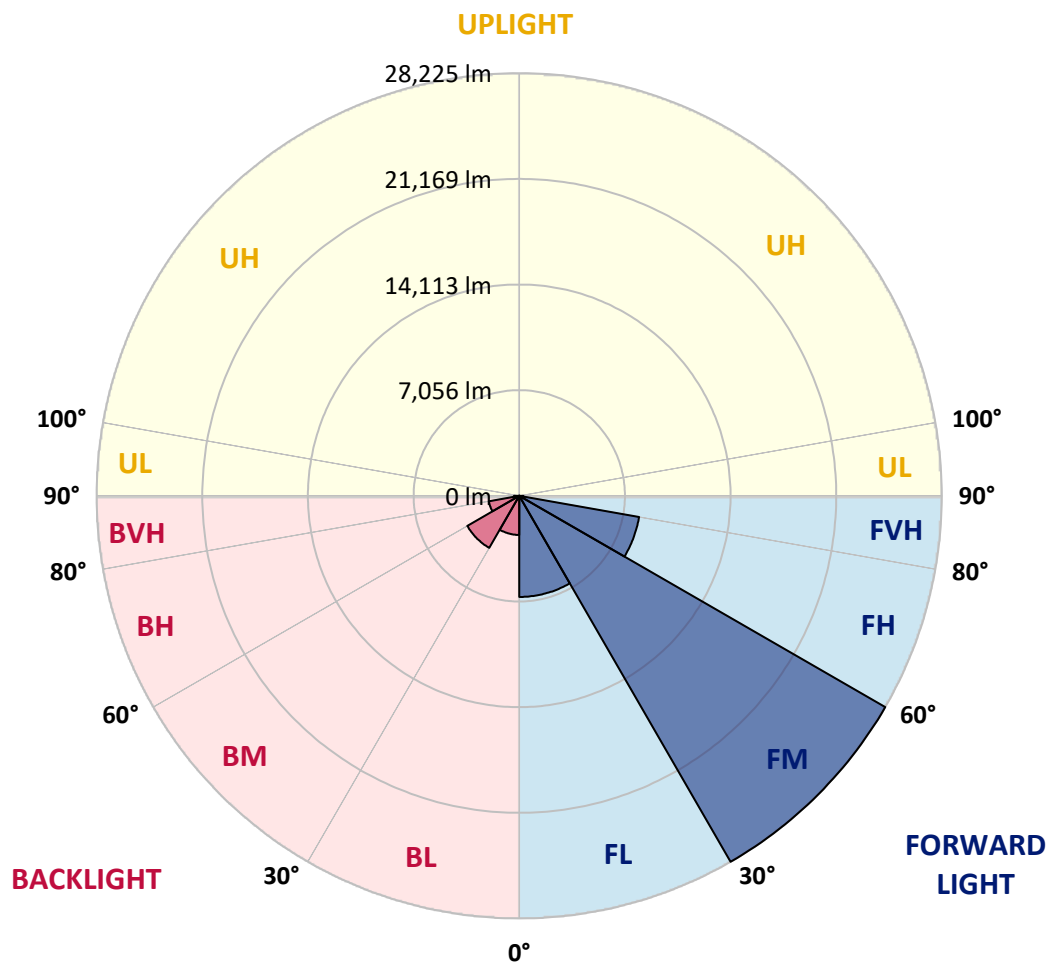
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6751.3	12.9			
FM	(30°-60°)	28225.1	53.9			
FH	(60°-80°)	8126.5	15.5			G4/12000
FVH	(80°-90°)	273.6	0.5			G3/500
BL	(0°-30°)	2612.4	5.0	B4/5000		
BM	(30°-60°)	4010.1	7.7	B3/5000		
BH	(60°-80°)	2064.3	3.9	B3/2500		G3/2500
BVH	(80°-90°)	347.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8
2.5°	13348.5	13471.0	13417.0	13229.7	13085.6	12882.0	12655.1	12586.6	12347.1	12078.7	11756.3
5°	15461.3	15400.1	15311.8	15020.0	14712.0	14353.6	13784.4	13694.4	13161.2	12554.2	11913.0
7.5°	16664.5	16659.1	16606.9	16435.8	16154.8	15686.5	15000.2	14893.9	14088.8	13112.6	12118.3
10°	16489.8	16477.2	16563.6	16742.0	16826.6	16729.3	16151.2	16044.9	15056.1	13730.4	12356.1
12.5°	15497.3	15504.5	15643.2	16017.9	16527.6	17140.0	17046.4	16994.1	16059.3	14429.2	12644.3
15°	14724.6	14740.8	14850.7	15176.7	15778.3	16889.7	17590.3	17608.3	17030.1	15200.1	12981.1
17.5°	14386.0	14420.2	14470.7	14699.4	15250.6	16390.7	17720.0	17817.3	17880.3	15999.9	13305.3
20°	14494.1	14526.5	14540.9	14686.8	15138.9	16088.1	17629.9	17804.7	18532.3	16752.8	13629.5
22.5°	14978.6	14998.4	15007.4	15045.2	15396.5	16174.6	17570.5	17754.2	19004.2	17428.2	13874.5
25°	15781.9	15767.5	15709.9	15661.2	15897.2	16516.8	17707.4	17882.1	19387.9	18040.6	14034.8
27.5°	16743.8	16725.7	16614.1	16480.8	16615.9	17050.0	18101.8	18240.5	19731.9	18613.4	14115.8
30°	17898.3	17851.5	17640.7	17482.2	17534.5	17849.7	18752.1	18878.2	20263.3	19263.6	14195.1
32.5°	19233.0	19182.6	18878.2	18615.2	18615.2	18878.2	19422.1	19526.6	20713.6	19998.5	14323.0
35°	20904.5	20841.4	20445.2	20003.9	19879.6	20012.9	20335.3	20409.2	21524.1	20924.3	14555.3
37.5°	22875.0	22790.3	22277.0	21686.2	21414.2	21407.0	21639.4	21790.7	22819.1	22140.1	14949.8
40°	24850.9	24791.4	24342.9	23878.2	23345.1	23174.0	23532.4	23579.2	24512.2	23649.5	15454.1
42.5°	26378.3	26367.5	26284.6	26345.8	25800.1	25454.3	25735.2	25773.1	26580.0	25283.1	15990.9
45°	27185.2	27203.2	27604.9	28494.6	28696.4	28444.2	28582.9	28593.7	28943.1	26931.2	16482.6
47.5°	26538.6	26632.2	27648.1	29638.4	31290.1	32127.6	31897.1	32030.4	31234.2	28347.0	16868.0
50°	24018.7	24134.0	25863.1	29128.7	32500.5	35692.2	35571.5	35540.9	33082.2	29384.4	17077.0
52.5°	20897.3	20987.3	22413.9	26479.1	31612.5	37662.6	38770.4	38611.9	34724.9	30160.7	17116.6
55°	16144.0	16284.5	17651.6	21190.9	28020.9	36909.8	41122.7	40980.4	36221.7	30567.8	17069.8
57°	11477.1	11624.8	12982.9	16172.8	23572.0	34303.4	41356.9	41508.2	37030.4	30636.2	17122.0
57.5°	10241.5	10392.8	11738.3	14836.3	22185.1	33361.4	41155.1	41407.3	37176.3	30625.4	17150.8
60°	5156.8	5214.4	6071.8	8281.8	14024.0	26970.9	38523.6	39173.8	37307.8	30095.9	17275.1
62.5°	3206.1	3164.7	3137.7	3814.9	6822.9	17885.7	33093.1	34344.9	34791.6	28813.5	16974.3
65°	2818.8	2741.4	2444.2	2390.2	3013.4	8687.1	24921.1	26479.1	29415.0	26792.5	16257.4
67.5°	2647.7	2572.1	2237.1	2035.3	2037.1	3443.9	15472.1	17226.5	22914.6	23375.7	14566.1
70°	2471.2	2402.8	2089.4	1851.6	1734.5	1907.4	7118.3	8449.3	14937.2	18373.8	12174.2
72.5°	2244.3	2197.4	1900.2	1655.3	1531.0	1428.3	2725.2	3218.7	8647.5	12339.9	8454.7
75°	2006.5	1963.3	1709.3	1475.2	1323.9	1123.9	1534.6	1653.5	4393.1	6313.1	4162.5
77.5°	1745.3	1720.1	1520.2	1304.1	1183.4	931.2	1086.1	1143.7	1884.0	2707.2	2087.6
80°	1388.7	1437.3	1329.3	1161.8	1050.1	745.7	769.1	806.9	1096.9	1322.1	1185.2
82.5°	904.2	988.8	1041.1	943.8	864.6	587.2	553.0	569.2	715.1	806.9	515.1
85°	376.4	423.3	684.4	617.8	574.6	428.7	371.0	378.2	443.1	459.3	210.7
87.5°	167.5	178.3	300.8	282.8	243.2	147.7	158.5	172.9	236.0	223.3	81.1
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°	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8	11624.8
2.5°	11635.6	11484.3	11224.9	10938.6	10704.4	10517.1	10328.0	10198.3	10047.0	9965.9	9924.5
5°	11644.6	11347.4	10801.7	10241.5	9740.8	9283.3	8847.4	8512.4	8199.0	8029.7	7982.8
7.5°	11682.4	11235.8	10353.2	9431.0	8541.2	7728.9	7102.0	6709.4	6426.6	6300.5	6264.5
10°	11713.1	11104.3	9798.4	8433.1	7222.7	6399.6	5913.3	5693.5	5596.3	5580.1	5563.8
12.5°	11785.1	10969.2	9214.8	7392.0	6197.9	5628.7	5459.4	5445.0	5472.0	5511.6	5511.6
15°	11898.6	10835.9	8548.4	6498.7	5545.8	5345.9	5380.1	5459.4	5533.2	5594.5	5603.5
17.5°	11981.4	10672.0	7831.5	5783.6	5198.2	5252.2	5374.7	5486.4	5562.0	5621.5	5626.9
20°	12040.9	10418.0	7066.0	5237.8	4998.3	5165.8	5318.9	5417.9	5470.2	5529.6	5538.6
22.5°	12010.3	10077.6	6387.0	4847.0	4836.2	5039.7	5185.6	5304.5	5264.8	5207.2	5245.0
25°	11862.6	9609.3	5688.1	4555.2	4665.1	4870.4	5050.5	4971.3	4838.0	4812.7	4827.2
27.5°	11599.6	9011.3	5041.5	4285.0	4466.9	4713.7	4702.9	4623.6	4576.8	4544.4	4564.2
30°	11316.8	8362.9	4475.9	4049.0	4247.2	4450.7	4409.3	4407.5	4360.7	4308.4	4333.6
32.5°	11037.6	7710.8	4027.4	3854.5	4081.5	4108.5	4198.5	4225.6	4133.7	4023.8	4016.6
35°	10794.5	7094.8	3687.0	3678.0	3881.5	3885.1	4016.6	3978.8	3750.1	3636.6	3636.6
37.5°	10612.5	6480.6	3427.6	3519.5	3618.6	3712.2	3778.9	3622.2	3584.3	3521.3	3519.5
40°	10533.3	5940.3	3265.5	3398.8	3433.0	3551.9	3380.8	3442.1	3460.1	3427.6	3427.6
42.5°	10450.4	5470.2	3125.0	3307.0	3301.6	3285.4	3198.9	3278.1	3350.2	3352.0	3346.6
45°	10367.6	5064.9	3000.8	3110.6	3186.3	3011.6	3027.8	3112.4	3213.3	3249.3	3249.3
47.5°	10275.7	4744.3	2887.3	2903.5	3020.6	2903.5	2890.9	2955.7	3074.6	3132.2	3144.9
50°	10074.0	4456.1	2757.6	2721.6	2754.0	2793.6	2804.4	2835.1	2966.5	3058.4	3080.0
52.5°	9794.8	4198.5	2591.9	2554.1	2554.1	2703.6	2754.0	2763.0	2874.7	2984.6	3006.2
55°	9562.5	4034.6	2420.8	2413.6	2406.4	2608.1	2694.6	2709.0	2786.4	2872.9	2883.7
57°	9578.7	4022.0	2289.3	2296.5	2294.7	2510.8	2638.7	2669.3	2709.0	2782.8	2795.4
57.5°	9587.7	4031.0	2260.5	2264.1	2262.3	2483.8	2622.5	2656.7	2687.4	2764.8	2777.4
60°	9722.8	4054.5	2143.4	2103.8	2112.8	2339.7	2530.7	2573.9	2593.7	2696.4	2712.6
62.5°	9522.8	3950.0	2049.7	1954.3	1954.3	2188.4	2402.8	2471.2	2501.8	2640.5	2667.5
65°	8942.9	3656.4	1939.9	1785.0	1803.0	2037.1	2249.7	2361.3	2408.2	2581.1	2609.9
67.5°	8047.7	3316.0	1822.8	1633.7	1651.7	1878.6	2091.2	2211.8	2285.7	2516.2	2539.7
70°	6882.3	2899.9	1664.3	1473.4	1495.0	1705.7	1903.8	2040.7	2150.6	2455.0	2462.2
72.5°	5073.9	2377.6	1442.7	1296.8	1320.3	1504.0	1714.7	1873.2	2020.9	2301.9	2298.3
75°	3017.0	1858.8	1197.8	1118.5	1134.7	1305.9	1543.6	1736.3	1957.9	2242.5	2276.7
77.5°	1830.0	1399.5	976.2	936.6	956.4	1131.1	1421.1	1626.5	1930.9	2114.6	2103.8
80°	1105.9	999.7	779.9	754.7	774.5	967.2	1314.9	1543.6	1687.7	1806.6	1806.6
82.5°	578.2	610.6	572.8	553.0	580.0	785.3	1196.0	1347.3	1491.4	1280.6	1196.0
85°	236.0	318.8	347.6	345.8	362.0	544.0	1032.1	1152.8	961.8	913.2	934.8
87.5°	79.3	135.1	169.3	145.9	153.1	342.2	715.1	556.6	661.0	461.1	437.7
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)