

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: P318884

Luminaire Tested: **GAN-SA0B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45218 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

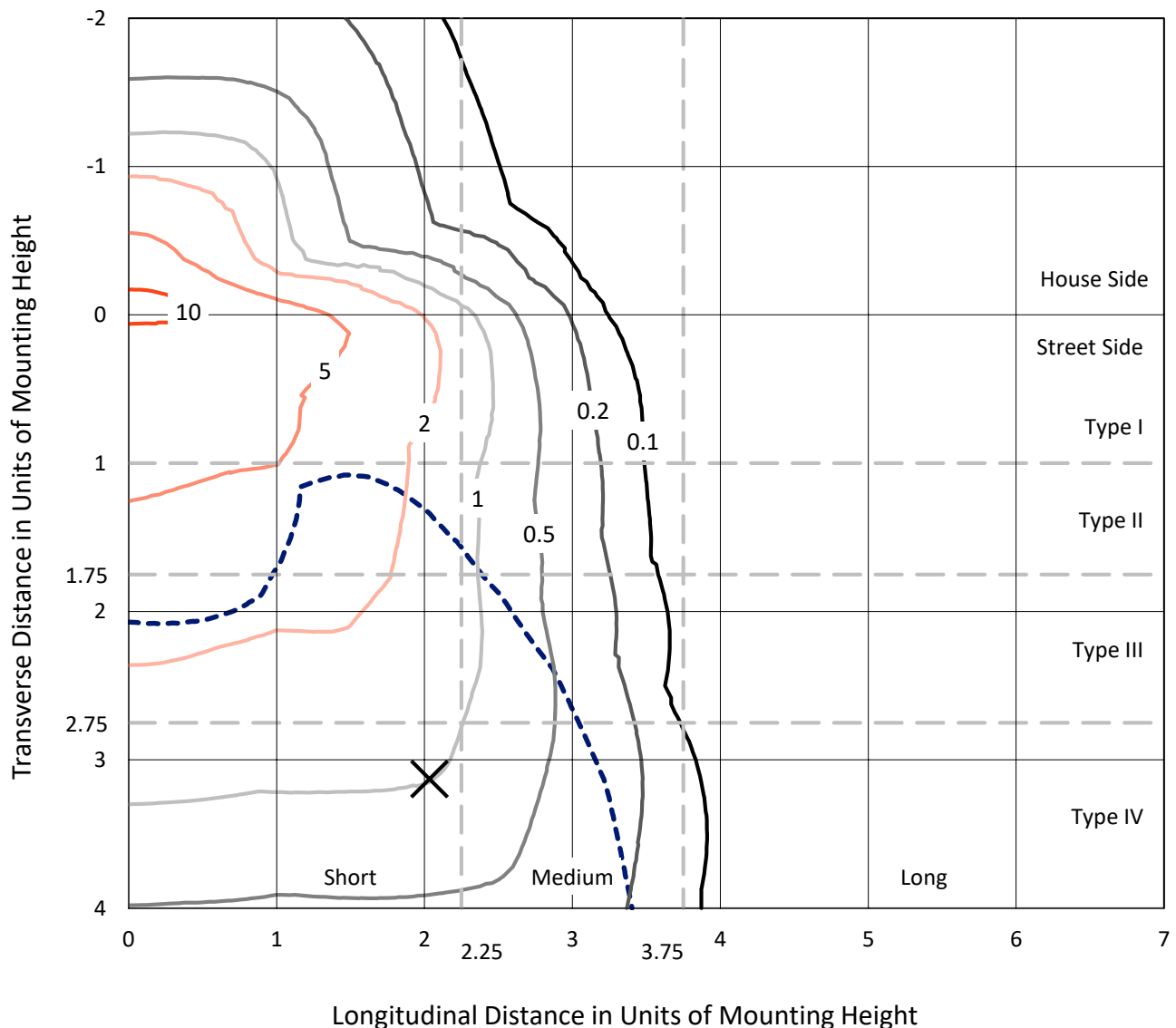
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

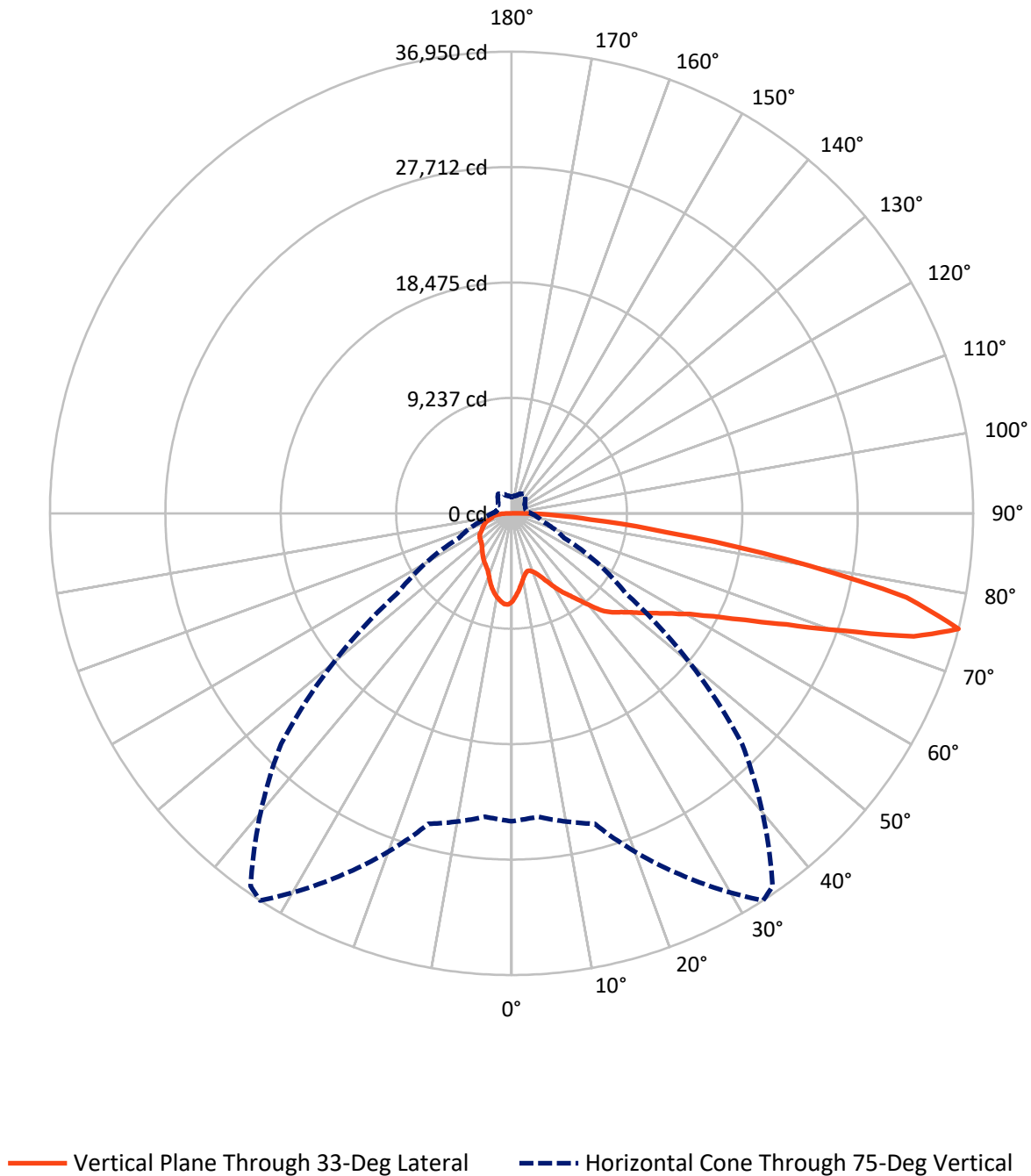
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9709.5	0.0	9709.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	35508.5	0.0	35508.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	45218.0	0.0	45218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.2	1.4
10°-20°	1731.2	3.8
20°-30°	2827.3	6.3
30°-40°	4210.5	9.3
40°-50°	6039.1	13.4
50°-60°	8290.7	18.3
60°-70°	10379.6	23.0
70°-80°	9389.9	20.8
80°-90°	1710.4	3.8
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°	45218.0	100.0
0°-180°	45218.0	100.0

Coefficient of Utilization



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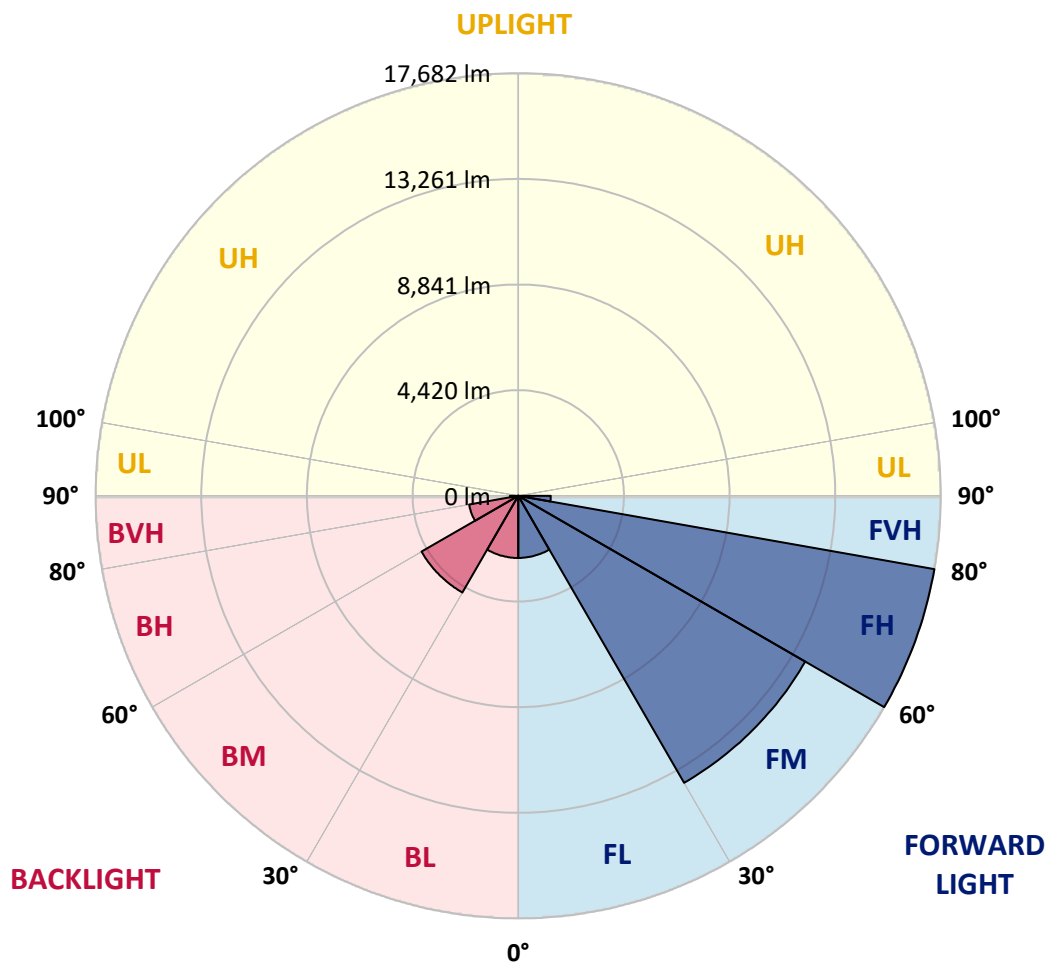
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2597.1	5.7			
FM	(30°-60°)	13867.4	30.7			
FH	(60°-80°)	17681.8	39.1			G5
FVH	(80°-90°)	1362.2	3.0			G5
BL	(0°-30°)	2600.7	5.8	B4/5000		
BM	(30°-60°)	4672.9	10.3	B3/5000		
BH	(60°-80°)	2087.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	348.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8
2.5°	6563.3	6538.3	6585.2	6591.4	6632.0	6647.7	6703.9	6791.4	6863.2	6946.0	7021.0
5°	5968.2	5951.0	6016.6	6063.5	6152.5	6190.0	6322.8	6508.6	6674.2	6861.6	7031.9
7.5°	5402.8	5393.4	5466.8	5573.0	5676.1	5727.7	5957.3	6227.5	6504.0	6807.0	7067.8
10°	4926.4	4923.3	4993.6	5098.2	5249.7	5307.5	5604.3	5960.4	6347.8	6764.8	7128.7
12.5°	4659.3	4670.2	4703.0	4790.5	4931.1	4988.9	5318.4	5737.0	6216.6	6750.8	7217.8
15°	4724.9	4742.1	4685.9	4682.7	4782.7	4828.0	5137.3	5577.7	6122.8	6774.2	7347.4
17.5°	5004.5	5007.6	4859.2	4765.5	4826.4	4849.9	5081.0	5487.1	6068.2	6827.3	7509.9
20°	5398.1	5390.3	5127.9	4971.7	5004.5	5010.7	5160.7	5488.7	6063.5	6919.4	7720.7
22.5°	5919.8	5862.0	5509.0	5296.6	5288.8	5279.4	5365.3	5604.3	6132.2	7069.4	7972.2
25°	6600.8	6546.1	6060.4	5769.8	5707.4	5683.9	5696.4	5851.1	6268.1	7230.3	8253.3
27.5°	7358.3	7263.1	6794.5	6383.7	6254.1	6221.2	6146.3	6199.4	6416.5	7384.9	8587.6
30°	7992.5	7941.0	7531.7	7044.4	6891.3	6844.5	6647.7	6589.9	6630.5	7595.8	9009.3
32.5°	8347.1	8312.7	8064.4	7670.7	7528.6	7463.0	7185.0	7069.4	6974.1	7928.5	9581.0
35°	8776.6	8754.7	8604.8	8318.9	8108.1	8039.4	7823.8	7703.5	7458.3	8386.1	10319.8
37.5°	9323.3	9299.9	9303.0	9071.8	8820.3	8756.3	8614.2	8487.6	8086.2	8987.5	11122.7
40°	9941.8	9896.5	9879.3	9868.4	9709.1	9673.2	9598.2	9426.4	8873.4	9706.0	11914.6
42.5°	10872.7	10711.9	10368.2	10497.9	10655.6	10636.9	10697.8	10451.0	9748.1	10555.7	12687.7
45°	11770.9	11506.9	10913.3	10941.5	11286.7	11391.3	11847.4	11672.5	10696.2	11486.6	13487.4
47.5°	12180.1	11980.2	11475.7	11477.2	11819.3	12036.4	13036.0	12911.1	11692.8	12544.0	14463.7
50°	12637.7	12437.8	11984.8	12155.1	12453.4	12684.6	14184.1	14120.0	12640.9	13701.4	15633.6
52.5°	13137.6	12798.6	12511.2	12815.8	13234.4	13503.1	15333.7	15158.7	13510.9	14866.6	16978.4
55°	13143.8	13051.7	13270.3	13493.7	14120.0	14449.6	16537.9	16075.6	14220.0	16011.6	18073.3
57.5°	13892.0	13742.0	14205.9	14309.0	15127.5	15499.2	17736.0	16873.8	14941.6	16889.4	18663.7
60°	14882.3	14754.2	15133.7	15405.5	16373.9	16870.6	19015.2	17693.8	15508.6	17551.6	18635.6
62.5°	16592.6	16447.3	16442.7	16823.8	18128.0	18705.9	20450.6	18498.2	15733.5	17682.8	17840.6
65°	19096.4	18865.2	18429.5	18610.6	20550.6	21126.9	22054.7	19080.8	15436.8	16980.0	15792.9
67.5°	21533.1	21525.2	20989.5	21361.2	23749.5	24211.8	23882.2	19138.6	14510.5	14532.4	12159.8
70°	23961.9	23993.1	23902.5	25195.8	28071.4	28552.5	25828.4	18362.3	12428.4	10494.7	7284.9
72.5°	25886.2	25878.4	26334.5	29669.3	33680.3	33572.6	27468.5	16010.0	8923.4	5665.2	3481.6
75°	24639.8	24368.0	25726.9	31884.1	36949.5	36423.1	26073.6	11167.9	4631.2	2578.8	1874.3
77.5°	16070.9	16328.6	18323.2	26339.2	32319.9	31679.5	19129.2	5210.7	2182.0	1691.6	1358.9
80°	5819.8	6091.6	8579.8	14919.8	22267.2	22162.5	9420.1	2141.4	1476.0	1277.7	990.3
82.5°	2002.4	2102.4	3384.7	6625.8	12572.1	13040.7	3544.1	1216.8	1073.1	905.9	677.9
85°	785.7	899.7	1547.9	3187.9	6341.5	6388.4	1435.4	727.9	746.6	593.5	371.7
87.5°	298.3	362.4	740.4	1480.7	2895.9	2660.0	513.9	346.8	424.9	353.0	176.5
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°	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8	7067.8
2.5°	7078.8	7111.6	7180.3	7227.1	7277.1	7291.2	7297.4	7309.9	7322.4	7317.7	7319.3
5°	7122.5	7186.5	7297.4	7344.3	7366.2	7341.2	7292.7	7253.7	7225.6	7210.0	7205.3
7.5°	7194.3	7284.9	7403.6	7395.8	7345.9	7235.0	7110.0	7016.3	6938.2	6910.1	6894.5
10°	7289.6	7395.8	7478.6	7389.6	7244.3	7052.2	6864.8	6719.5	6602.4	6557.1	6549.3
12.5°	7411.5	7519.2	7534.9	7345.9	7105.3	6842.9	6588.3	6396.2	6221.2	6165.0	6152.5
15°	7569.2	7670.7	7573.9	7269.3	6933.5	6580.5	6250.9	5990.1	5805.8	5737.0	5712.1
17.5°	7734.8	7831.6	7581.7	7142.8	6708.6	6269.7	5855.8	5588.7	5377.8	5298.1	5288.8
20°	7933.1	7976.9	7548.9	6961.6	6399.3	5866.7	5430.9	5179.4	5067.0	5010.7	5004.5
22.5°	8178.4	8131.5	7473.9	6716.4	6007.3	5401.2	5046.7	4929.5	4901.4	4888.9	4893.6
25°	8437.7	8294.0	7363.0	6396.2	5512.1	4935.8	4765.5	4798.3	4835.8	4831.1	4831.1
27.5°	8723.5	8459.5	7192.8	5971.3	4963.9	4554.6	4575.0	4695.2	4751.5	4749.9	4748.3
30°	9090.6	8647.0	6975.7	5460.6	4451.6	4286.0	4409.4	4556.2	4632.7	4629.6	4631.2
32.5°	9542.0	8853.1	6680.5	4890.5	4081.4	4087.6	4229.8	4375.0	4464.1	4456.2	4457.8
35°	10069.9	9084.3	6280.6	4328.2	3836.2	3929.9	4042.3	4143.9	4228.2	4217.3	4206.3
37.5°	10644.7	9310.8	5749.5	3825.2	3636.2	3783.0	3876.8	3893.9	3933.0	3904.9	3884.6
40°	11191.4	9484.2	5065.4	3412.9	3434.7	3658.1	3719.0	3650.3	3580.0	3570.6	3542.5
42.5°	11667.8	9542.0	4373.5	3083.3	3222.3	3526.9	3564.4	3420.7	3294.2	3234.8	3209.8
45°	12170.7	9562.3	3728.4	2806.8	3017.7	3409.7	3450.3	3258.2	3080.2	2952.1	2909.9
47.5°	12828.3	9709.1	3227.0	2602.2	2861.5	3331.6	3389.4	3128.6	2897.4	2714.7	2675.6
50°	13688.9	9999.6	2819.3	2446.0	2760.0	3280.1	3345.7	3002.1	2747.5	2527.2	2488.2
52.5°	14644.8	10266.7	2489.7	2319.5	2661.6	3189.5	3289.5	2911.5	2606.9	2353.9	2311.7
55°	15313.4	10062.1	2224.2	2188.3	2533.5	3059.9	3211.4	2834.9	2405.4	2185.2	2147.7
57.5°	15441.4	9362.3	2022.7	2052.4	2378.9	2897.4	3091.1	2664.7	2296.1	2111.8	2072.7
60°	15091.6	8387.7	1872.8	1927.4	2213.3	2692.8	2866.2	2544.4	2191.4	2033.7	2000.9
62.5°	14212.2	7389.6	1761.9	1815.0	2058.7	2485.1	2725.6	2417.9	2085.2	1944.6	1911.8
65°	12436.3	6204.1	1655.7	1715.0	1915.0	2305.4	2599.1	2300.8	1980.6	1872.8	1841.5
67.5°	9387.3	4646.8	1555.7	1608.8	1786.9	2149.2	2461.6	2185.2	1879.0	1810.3	1772.8
70°	5527.7	2909.9	1441.7	1497.9	1652.5	1986.8	2314.8	2058.7	1752.5	1721.3	1672.8
72.5°	2572.5	1750.9	1312.0	1366.7	1483.9	1769.7	2125.8	1893.1	1602.6	1533.8	1468.2
75°	1535.4	1280.8	1159.0	1207.4	1290.2	1538.5	1888.4	1724.4	1460.4	1369.8	1301.1
77.5°	1148.0	979.3	990.3	1041.8	1109.0	1346.4	1672.8	1591.6	1351.1	1280.8	1233.9
80°	826.3	743.5	807.5	863.8	934.0	1224.6	1602.6	1471.4	1221.4	1127.7	1084.0
82.5°	551.4	534.2	607.6	665.4	734.1	1071.5	1505.7	1288.6	1043.4	924.7	827.8
85°	304.6	321.8	409.2	434.2	493.6	754.4	1233.9	1035.6	785.7	632.6	604.5
87.5°	126.5	148.4	220.2	212.4	262.4	449.8	812.2	624.8	499.8	373.3	290.5
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)