

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: P318144

Luminaire Tested: **GAN-SA0D-750-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318144  
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-SA0D-750-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 75364 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

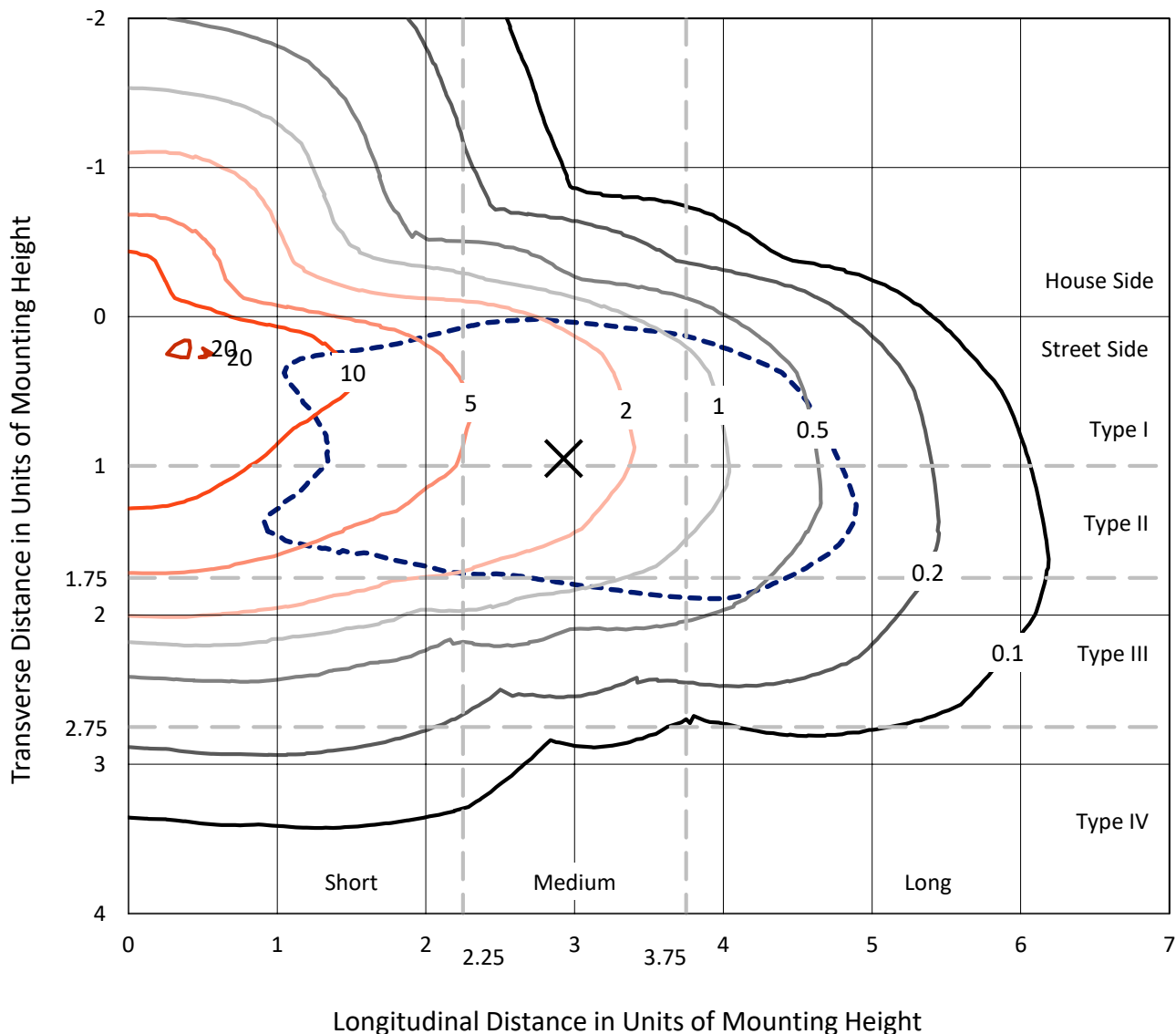
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

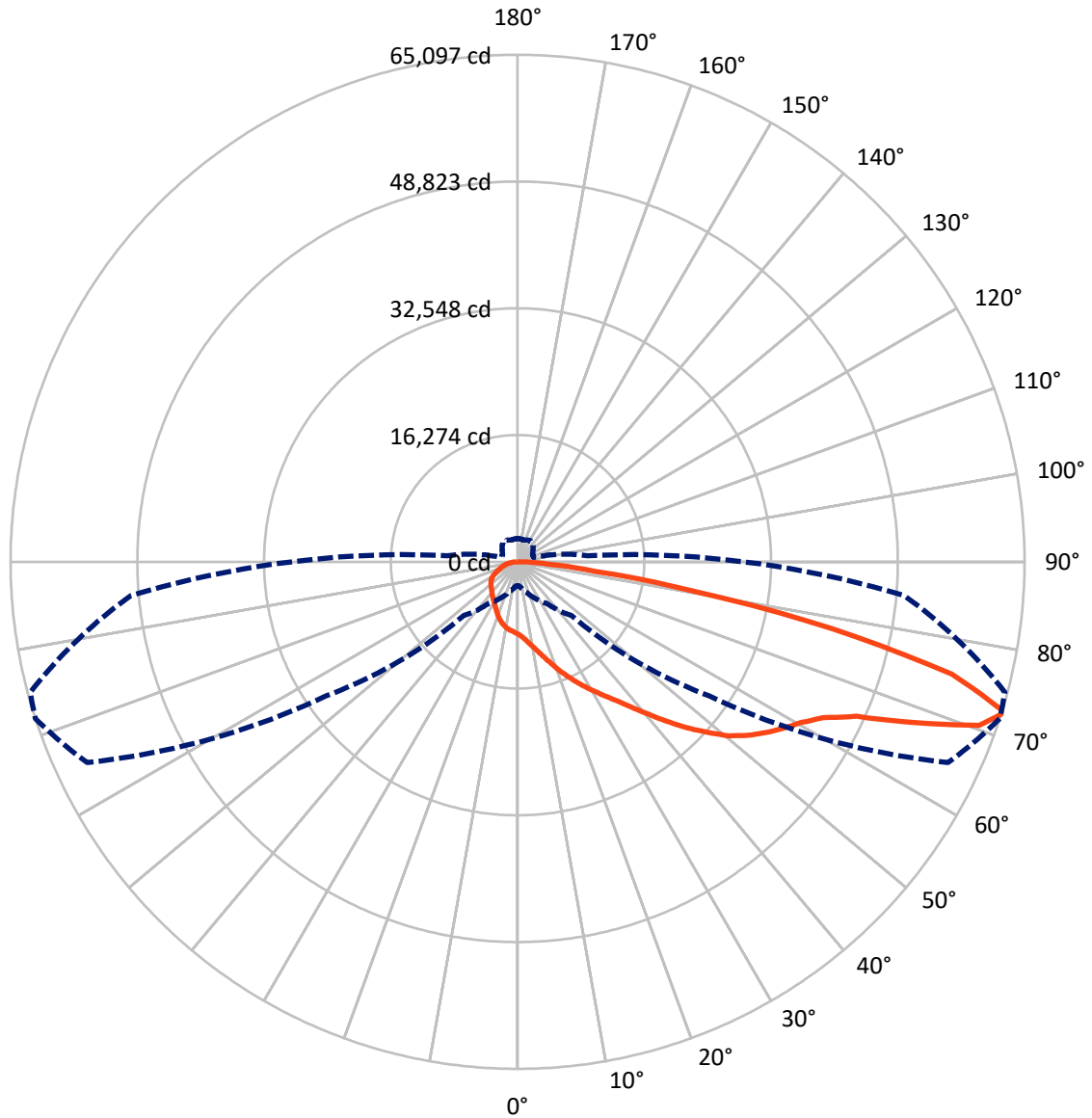
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13980.5	0.0	13980.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	61383.5	0.0	61383.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	75364.0	0.0	75364.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	929.0	1.2
10°-20°	3002.3	4.0
20°-30°	5260.9	7.0
30°-40°	7800.3	10.4
40°-50°	11408.5	15.1
50°-60°	15698.0	20.8
60°-70°	17476.6	23.2
70°-80°	11842.1	15.7
80°-90°	1946.4	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°	75364.0	100.0
0°-180°	75364.0	100.0

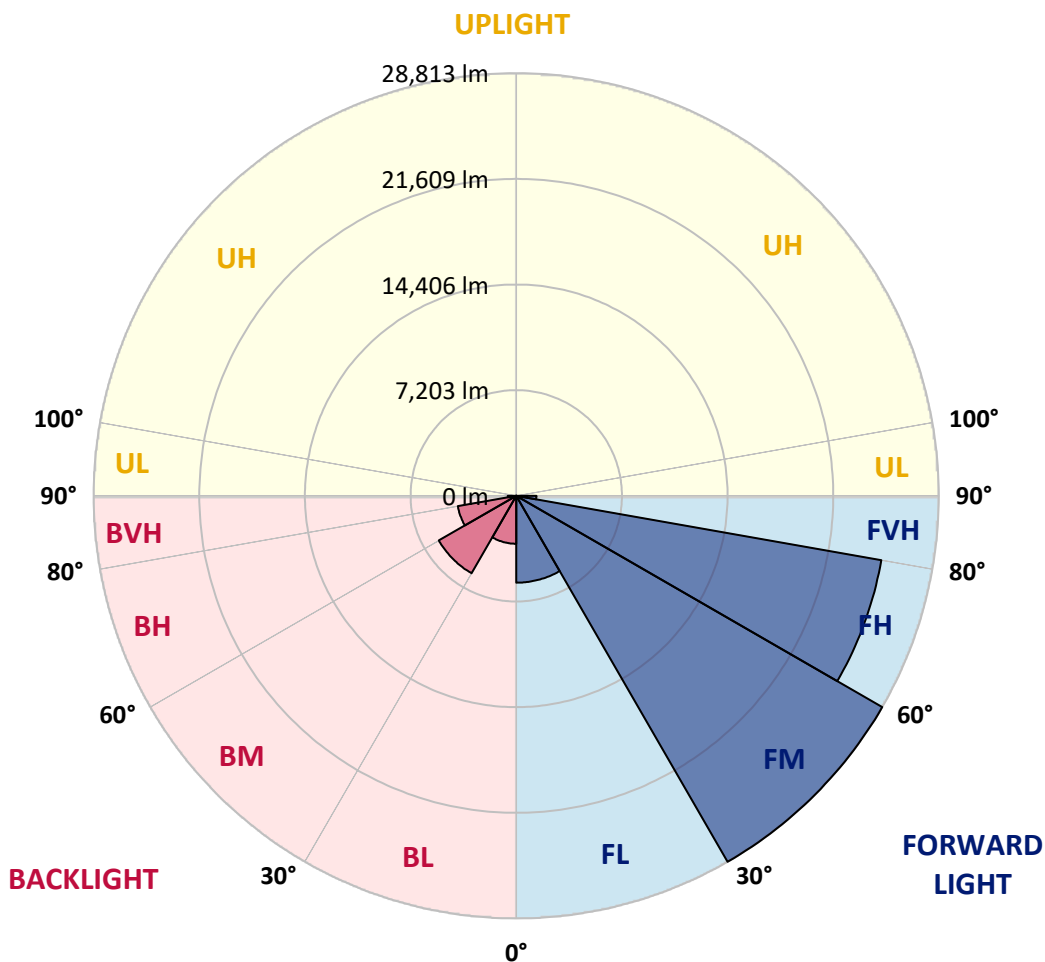


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5924.1	7.9			
FM (30°-60°)	28812.6	38.2			
FH (60°-80°)	25273.9	33.5			G5
FVH (80°-90°)	1372.9	1.8			G5
BL (0°-30°)	3268.1	4.3	B4/5000		
BM (30°-60°)	6094.2	8.1	B4/8500		
BH (60°-80°)	4044.8	5.4	B4/5000		G4/5000
BVH (80°-90°)	573.4	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7
2.5°	10242.2	10226.7	10172.2	10172.2	10068.4	9980.2	9814.1	9702.5	9570.2	9523.4	9367.8
5°	11233.5	11238.7	11171.2	11124.5	10971.4	10784.6	10501.7	10244.8	9987.9	9884.1	9565.0
7.5°	12066.5	12056.1	12037.9	11999.0	11856.3	11664.3	11282.8	10901.4	10522.5	10366.8	9816.7
10°	12601.1	12624.4	12640.0	12658.1	12598.5	12460.9	12100.2	11635.7	11140.1	10927.3	10117.7
12.5°	12870.9	12912.4	12985.1	13109.7	13208.3	13192.7	12930.6	12437.6	11848.5	11581.2	10494.0
15°	13029.2	13083.7	13197.9	13421.1	13698.7	13857.0	13786.9	13340.6	12684.1	12354.5	10953.3
17.5°	13127.8	13171.9	13348.4	13646.8	14059.4	14479.8	14664.0	14290.4	13628.7	13252.4	11480.0
20°	13195.3	13229.0	13449.6	13799.9	14334.5	15004.0	15517.8	15424.4	14669.2	14181.4	12030.2
22.5°	13345.8	13374.3	13584.5	13937.4	14529.1	15393.2	16340.4	16480.5	15766.9	15214.2	12619.2
25°	13766.2	13766.2	13942.6	14189.2	14744.5	15730.6	17035.8	17656.0	16887.9	16244.4	13164.2
27.5°	14568.0	14560.2	14625.1	14710.7	15131.1	16073.1	17656.0	18694.0	18050.4	17347.2	13693.5
30°	15517.8	15569.7	15577.5	15535.9	15733.2	16501.3	18229.5	19789.0	19220.8	18463.0	14235.9
32.5°	16740.0	16773.7	16734.8	16597.3	16568.7	17108.5	18792.6	20936.0	20487.1	19628.2	14731.5
35°	18291.8	18226.9	18104.9	17824.7	17557.4	17920.7	19436.1	22083.0	21909.1	21037.2	15414.0
37.5°	19955.1	19957.7	19807.2	19171.5	18803.0	18958.7	20323.6	23383.0	23629.6	22713.6	16288.5
40°	21288.9	21359.0	21452.4	20616.8	20139.4	20354.7	21452.4	24890.7	25664.0	24701.3	17427.6
42.5°	22220.5	22301.0	22565.6	22041.5	21545.8	21945.4	22781.0	26499.6	27947.6	26995.2	18761.5
45°	23206.6	23250.7	23437.5	23211.8	22895.2	23795.6	24278.3	28165.5	30363.5	29439.6	20253.5
47.5°	24244.6	24291.3	24483.3	24332.8	24166.7	25523.9	25840.5	29735.5	32678.1	32125.4	21846.8
50°	25526.5	25557.6	25739.3	25466.8	25518.7	26826.5	27236.5	31175.7	35104.4	34538.7	23445.3
52.5°	27275.5	27283.3	27535.0	27288.4	27044.5	27781.5	28438.0	32532.8	37006.5	36739.2	25043.8
55°	28645.6	28728.6	29553.8	29501.9	29361.8	28648.2	29442.2	33825.1	38703.6	38830.8	26740.9
57.5°	27771.1	28095.5	29766.6	30944.7	32091.7	30804.6	30799.4	35280.9	40281.3	40883.4	28606.7
60°	24322.4	24763.6	27226.2	29839.3	33428.1	34556.9	33617.5	37058.4	41874.6	42917.8	30944.7
62.5°	17370.6	18097.1	21434.2	25606.9	31596.0	37042.8	39352.3	39879.1	44041.4	45274.0	33983.4
65°	8781.3	9331.4	12128.8	17155.2	25243.6	35418.4	45585.4	46055.1	47806.7	48901.7	38662.1
67.5°	5335.2	5542.8	6907.7	9541.6	15476.3	27589.5	47619.8	56349.2	55093.3	55674.5	45333.7
70°	3931.3	4084.4	4935.6	6336.9	8900.7	16189.9	41376.4	63695.5	62870.3	62805.5	50264.1
72°	3062.0	3173.6	3926.2	5119.8	6508.1	9712.9	29989.8	60983.8	65096.8	64769.8	49812.6
72.5°	2903.7	3002.4	3687.4	4818.8	6150.0	8804.6	26964.1	59154.4	64935.9	64788.0	49228.7
75°	2286.1	2356.2	2729.9	3726.3	4813.6	4995.3	14775.6	45842.3	57605.2	60000.3	44277.5
77.5°	1891.7	1902.1	2099.3	2711.7	3752.3	3531.7	7258.1	31806.2	41249.2	43883.1	31365.1
80°	1541.4	1554.4	1647.8	1902.1	2838.9	2613.1	3446.1	18289.2	23095.0	23123.6	14915.7
82.5°	1227.4	1230.0	1333.8	1390.9	2039.6	1868.4	1974.8	8586.7	10091.7	9707.7	5361.2
85°	864.1	846.0	1302.7	1141.8	1333.8	1198.9	1089.9	3399.4	4172.7	3991.0	1678.9
87.5°	288.0	298.4	578.7	739.6	778.5	679.9	485.3	1302.7	1575.1	1562.2	532.0
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°	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7	9271.7
2.5°	9318.4	9235.4	9113.4	8978.5	8872.1	8763.1	8682.7	8641.2	8594.5	8555.5	8602.2
5°	9417.1	9261.4	9001.9	8747.6	8560.7	8394.6	8275.3	8213.0	8155.9	8117.0	8122.2
7.5°	9577.9	9326.2	8890.3	8519.2	8259.7	8080.7	7958.7	7917.2	7880.8	7870.5	7883.4
10°	9749.2	9378.1	8742.4	8249.3	7953.5	7805.6	7751.1	7779.6	7805.6	7828.9	7854.9
12.5°	9943.8	9424.8	8527.0	7932.7	7681.0	7623.9	7678.4	7803.0	7893.8	7948.3	7982.1
15°	10198.1	9466.4	8277.9	7616.2	7447.5	7512.4	7696.6	7912.0	8070.3	8171.5	8187.1
17.5°	10431.7	9463.8	7958.7	7297.0	7258.1	7447.5	7725.2	8028.8	8241.5	8384.3	8412.8
20°	10673.0	9393.7	7587.6	6985.6	7066.0	7377.4	7738.1	8104.0	8360.9	8527.0	8565.9
22.5°	10898.8	9271.7	7180.2	6702.7	6905.1	7284.0	7688.8	8059.9	8316.8	8451.7	8493.3
25°	11051.9	9059.0	6767.6	6464.0	6762.4	7169.8	7527.9	7826.4	8018.4	8085.8	8096.2
27.5°	11129.7	8781.3	6378.4	6256.4	6614.5	6983.0	7229.5	7377.4	7431.9	7426.7	7416.4
30°	11140.1	8415.4	6043.6	6087.7	6443.2	6707.9	6824.7	6796.2	6726.1	6606.7	6617.1
32.5°	11106.4	8002.8	5763.4	5926.9	6225.3	6373.2	6378.4	6240.8	6054.0	5864.6	5812.7
35°	11116.7	7598.0	5516.9	5745.2	5960.6	6025.5	5965.8	5763.4	5509.1	5265.1	5213.2
37.5°	11230.9	7245.1	5304.1	5535.0	5667.4	5682.9	5597.3	5384.5	5197.7	4958.9	4938.2
40°	11503.4	6993.4	5101.7	5298.9	5374.1	5381.9	5260.0	5109.4	5125.0	4997.9	4995.3
42.5°	11993.8	6884.4	4922.6	5052.4	5099.1	5114.6	5021.2	4925.2	5060.1	4977.1	4948.6
45°	12627.0	6910.3	4772.1	4811.0	4896.7	4969.3	4912.2	4795.5	4847.4	4486.7	4367.3
47.5°	13358.8	7076.4	4652.7	4603.4	4751.3	4888.9	4800.6	4624.2	4440.0	4081.8	4014.4
50°	14215.1	7333.3	4543.7	4398.4	4593.1	4779.9	4691.7	4440.0	4162.3	3988.4	3965.1
52.5°	15107.8	7647.3	4434.8	4172.7	4393.2	4696.9	4652.7	4398.4	4055.9	3884.6	3853.5
55°	16119.8	7963.9	4297.2	3910.6	4177.9	4657.9	4634.6	4247.9	3975.5	3879.4	3856.1
57.5°	17378.3	8324.6	4115.6	3638.1	3975.5	4517.8	4445.1	4157.1	3892.4	3819.8	3812.0
60°	19018.4	8856.5	3853.5	3347.5	3728.9	4302.4	4286.8	4024.8	3760.1	3708.2	3697.8
62.5°	21478.4	9736.2	3492.8	3056.8	3453.9	3936.5	4079.3	3845.7	3619.9	3617.4	3622.5
65°	25292.9	11059.7	3101.0	2802.5	3176.2	3627.7	3837.9	3661.5	3477.2	3529.1	3536.9
67.5°	29714.7	12157.3	2716.9	2553.4	2893.4	3334.5	3619.9	3477.2	3287.8	3422.7	3425.3
70°	31186.0	11176.4	2379.6	2306.9	2600.1	3051.7	3383.8	3274.8	3082.8	3217.7	3204.8
72°	29021.9	9022.6	2161.6	2120.1	2379.6	2818.1	3173.6	3085.4	2896.0	2986.8	2953.0
72.5°	28339.4	8602.2	2107.1	2073.4	2319.9	2758.4	3119.1	3038.7	2849.2	2927.1	2896.0
75°	25280.0	7470.8	1811.3	1819.1	2024.1	2467.8	2812.9	2787.0	2592.3	2600.1	2589.8
77.5°	18335.9	5477.9	1525.8	1577.7	1723.0	2169.4	2504.1	2488.6	2275.8	2236.8	2229.1
80°	8508.8	2794.8	1243.0	1266.3	1416.8	1813.9	2135.6	2114.9	1943.6	1894.3	1865.8
82.5°	2914.1	1328.6	934.2	949.7	1097.7	1461.0	1852.8	1839.8	1697.1	1601.1	1541.4
85°	1040.6	661.7	653.9	638.4	783.7	1149.6	1614.1	1544.0	1333.8	1136.6	1131.4
87.5°	337.3	282.8	337.3	334.7	456.7	778.5	1172.9	999.1	967.9	804.4	788.9
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)