

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: P318904

Luminaire Tested: **GAN-SA0D-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318904
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-SA0D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA 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: 61395 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

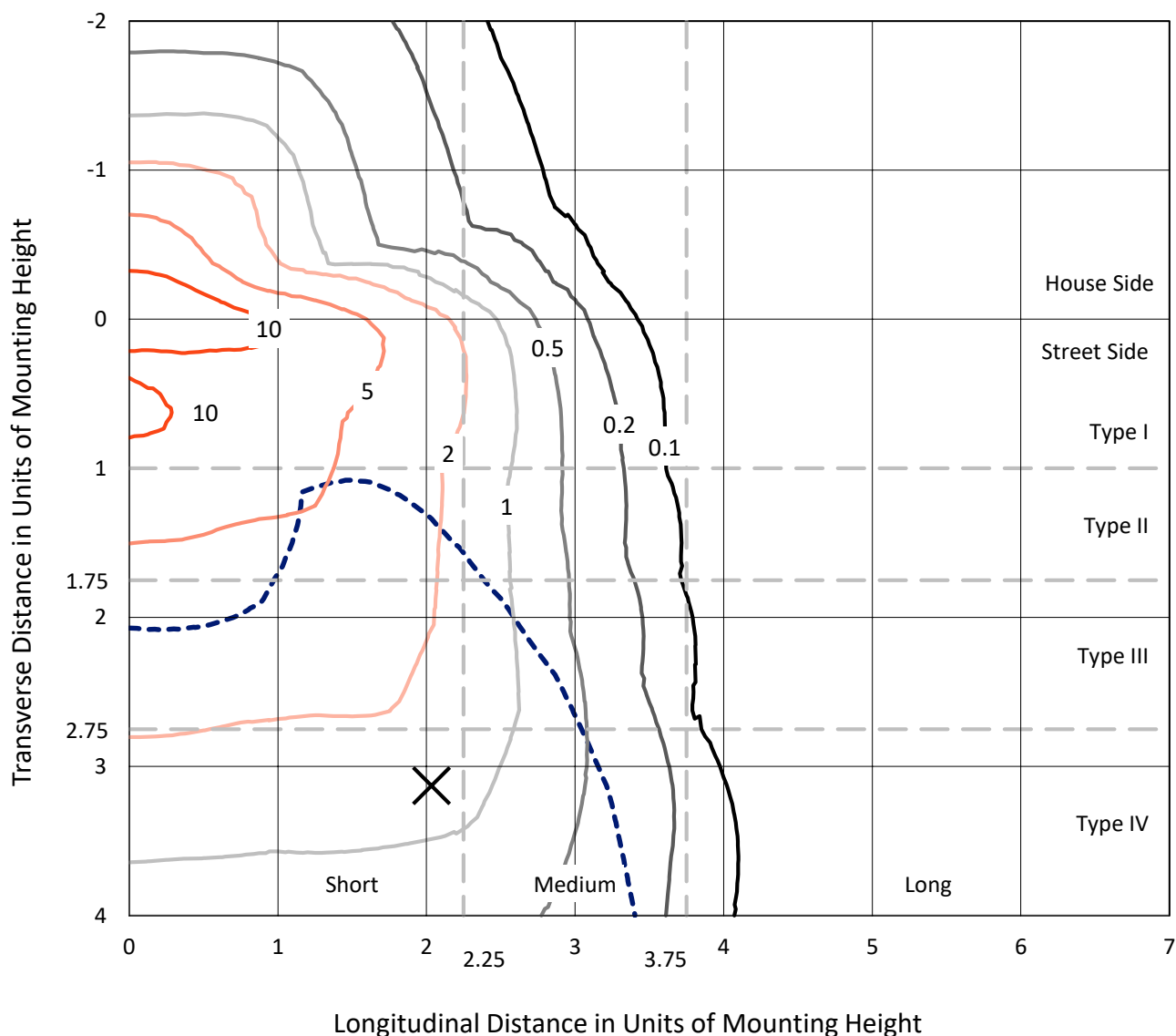
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

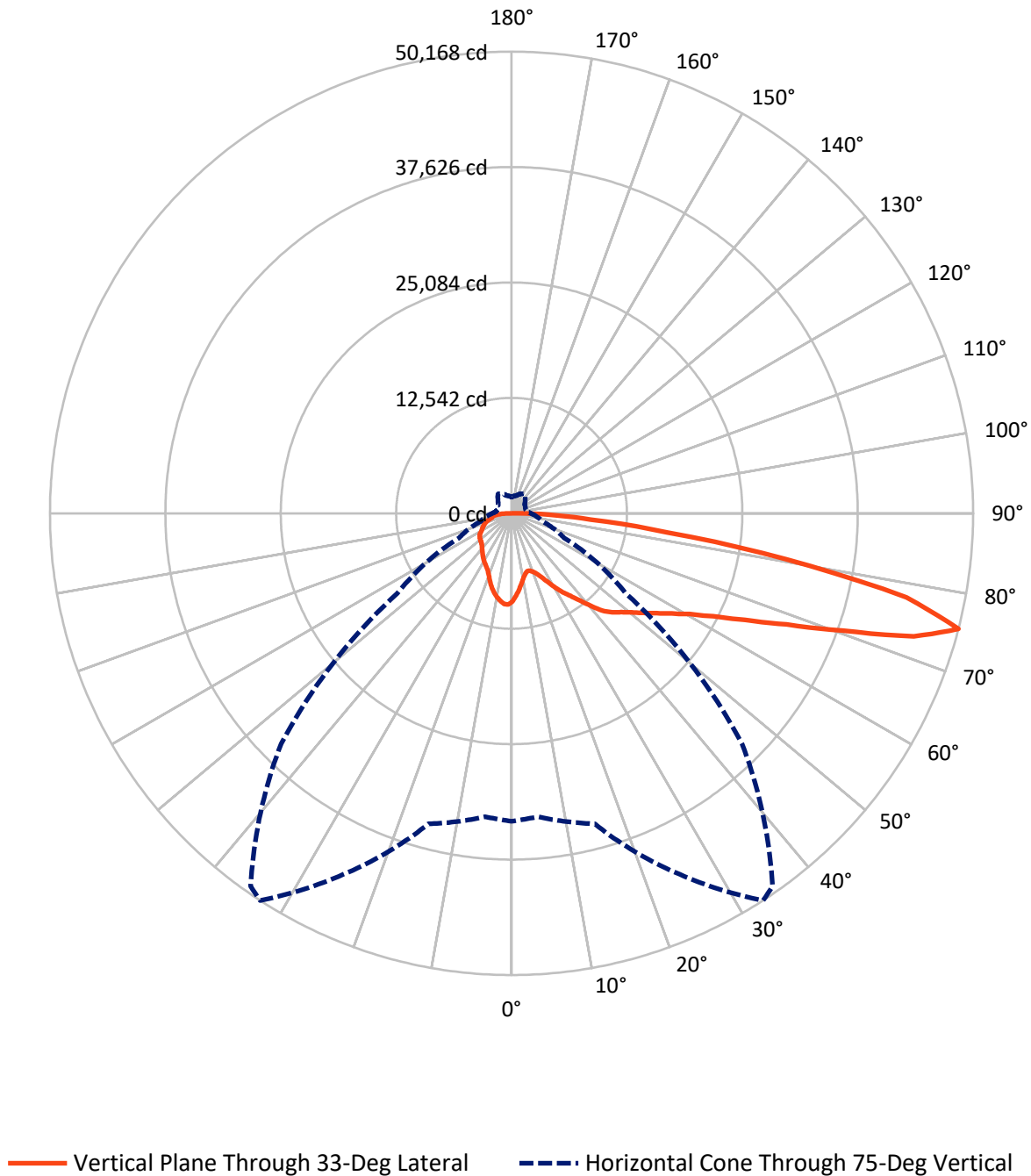
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	13183.1	0.0	13183.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	48211.9	0.0	48211.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	61395.0	0.0	61395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.9	1.4
10°-20°	2350.6	3.8
20°-30°	3838.8	6.3
30°-40°	5716.9	9.3
40°-50°	8199.6	13.4
50°-60°	11256.8	18.3
60°-70°	14093.0	23.0
70°-80°	12749.2	20.8
80°-90°	2322.3	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°	61395.0	100.0
0°-180°	61395.0	100.0

Coefficient of Utilization



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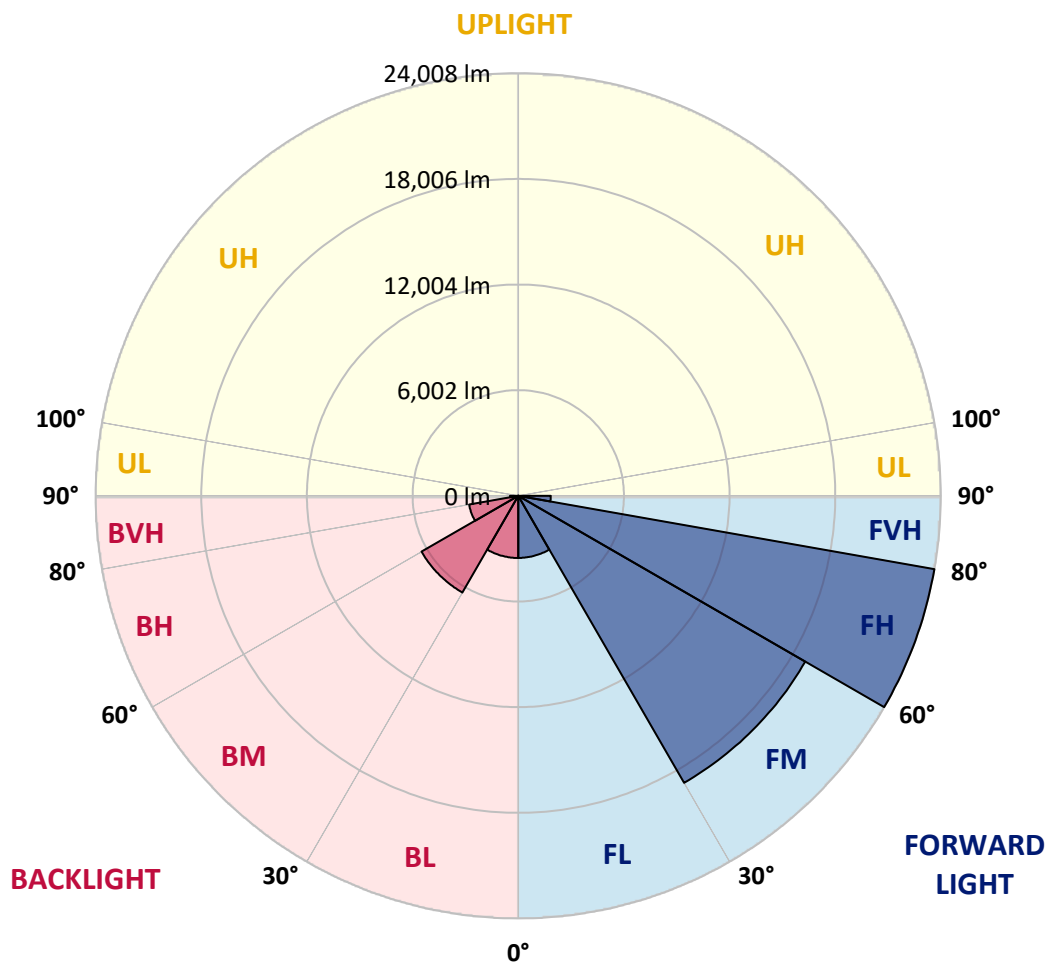
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3526.2	5.7			
FM	(30°-60°)	18828.6	30.7			
FH	(60°-80°)	24007.6	39.1			G5
FVH	(80°-90°)	1849.5	3.0			G5
BL	(0°-30°)	3531.0	5.8	B4/5000		
BM	(30°-60°)	6344.7	10.3	B4/8500		
BH	(60°-80°)	2834.6	4.6	B4/5000		G4/5000
BVH	(80°-90°)	472.8	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°	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4
2.5°	8911.4	8877.4	8941.1	8949.6	9004.7	9025.9	9102.2	9221.0	9318.6	9431.0	9532.8
5°	8103.4	8080.0	8169.1	8232.7	8353.6	8404.5	8584.8	8837.2	9062.0	9316.4	9547.6
7.5°	7335.7	7322.9	7422.6	7566.8	7706.8	7776.8	8088.5	8455.4	8830.8	9242.2	9596.4
10°	6688.8	6684.6	6780.0	6922.1	7127.8	7206.3	7609.2	8092.8	8618.7	9185.0	9679.1
12.5°	6326.2	6341.0	6385.6	6504.3	6695.2	6773.7	7221.1	7789.5	8440.6	9165.9	9800.0
15°	6415.3	6438.6	6362.2	6358.0	6493.7	6555.2	6975.1	7573.2	8313.3	9197.7	9976.0
17.5°	6794.9	6799.1	6597.6	6470.4	6553.1	6584.9	6898.8	7450.2	8239.1	9269.8	10196.6
20°	7329.3	7318.7	6962.4	6750.3	6794.9	6803.4	7006.9	7452.3	8232.7	9394.9	10482.9
22.5°	8037.6	7959.2	7479.9	7191.5	7180.9	7168.1	7284.8	7609.2	8326.1	9598.5	10824.3
25°	8962.3	8888.1	8228.5	7834.0	7749.2	7717.4	7734.4	7944.3	8510.6	9816.9	11206.0
27.5°	9990.8	9861.5	9225.3	8667.5	8491.5	8446.9	8345.1	8417.2	8712.0	10026.9	11659.9
30°	10851.9	10781.9	10226.2	9564.6	9356.7	9293.1	9025.9	8947.4	9002.6	10313.2	12232.5
32.5°	11333.3	11286.6	10949.4	10415.0	10222.0	10132.9	9755.4	9598.5	9469.1	10764.9	13008.7
35°	11916.5	11886.8	11683.2	11295.1	11008.8	10915.5	10622.8	10459.5	10126.6	11386.3	14011.8
37.5°	12658.7	12626.9	12631.2	12317.3	11975.9	11888.9	11695.9	11524.1	10979.1	12202.8	15101.8
40°	13498.6	13437.1	13413.7	13398.9	13182.6	13133.8	13032.0	12798.7	12048.0	13178.3	16177.1
42.5°	14762.5	14544.1	14077.5	14253.5	14467.7	14442.3	14525.0	14189.9	13235.6	14332.0	17226.8
45°	15982.0	15623.5	14817.7	14855.8	15324.5	15466.6	16085.9	15848.3	14522.9	15596.0	18312.7
47.5°	16537.6	16266.1	15581.1	15583.3	16047.7	16342.5	17699.8	17530.1	15875.9	17031.7	19638.1
50°	17159.0	16887.5	16272.5	16503.7	16908.7	17222.6	19258.5	19171.6	17163.2	18603.2	21226.6
52.5°	17837.6	17377.4	16987.2	17400.7	17969.1	18333.9	20819.4	20581.9	18344.5	20185.3	23052.5
55°	17846.1	17721.0	18017.9	18321.1	19171.6	19619.0	22454.5	21826.7	19307.3	21739.8	24539.2
57.5°	18861.9	18658.3	19288.2	19428.2	20539.4	21044.2	24081.1	22910.4	20287.1	22931.6	25340.8
60°	20206.5	20032.6	20547.9	20916.9	22231.8	22906.2	25818.0	24023.8	21056.9	23830.8	25302.6
62.5°	22528.7	22331.5	22325.1	22842.6	24613.4	25398.1	27766.9	25116.0	21362.3	24009.0	24223.2
65°	25928.3	25614.4	25022.7	25268.7	27902.7	28685.2	29945.0	25907.1	20959.3	23054.6	21442.9
67.5°	29236.6	29226.0	28498.6	29003.3	32246.0	32873.7	32426.2	25985.5	19701.7	19731.4	16510.0
70°	32534.4	32576.8	32453.8	34209.8	38114.1	38767.3	35068.7	24931.5	16874.8	14249.3	9891.2
72.5°	35147.1	35136.5	35755.8	40283.6	45729.7	45583.3	37295.5	21737.7	12115.8	7692.0	4727.1
75°	33454.8	33085.8	34930.8	43290.8	50168.4	49453.7	35401.6	15163.3	6288.0	3501.4	2544.9
77.5°	21820.4	22170.3	24878.5	35762.2	43882.5	43013.0	25972.8	7074.8	2962.7	2296.8	1845.1
80°	7901.9	8270.9	11649.3	20257.4	30233.4	30091.3	12790.2	2907.5	2004.1	1734.8	1344.6
82.5°	2718.8	2854.5	4595.7	8996.2	17069.9	17706.1	4812.0	1652.1	1457.0	1230.0	920.4
85°	1066.7	1221.6	2101.7	4328.4	8610.2	8673.9	1949.0	988.3	1013.7	805.9	504.7
87.5°	405.1	492.0	1005.2	2010.5	3931.9	3611.6	697.7	470.8	576.8	479.3	239.6
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°	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4	9596.4
2.5°	9611.2	9655.8	9749.1	9812.7	9880.6	9899.6	9908.1	9925.1	9942.1	9935.7	9937.8
5°	9670.6	9757.6	9908.1	9971.8	10001.4	9967.5	9901.8	9848.8	9810.6	9789.4	9783.0
7.5°	9768.2	9891.2	10052.3	10041.7	9973.9	9823.3	9653.6	9526.4	9420.4	9382.2	9361.0
10°	9897.5	10041.7	10154.1	10033.3	9836.0	9575.2	9320.7	9123.5	8964.4	8902.9	8892.3
12.5°	10062.9	10209.3	10230.5	9973.9	9647.3	9291.0	8945.3	8684.5	8446.9	8370.6	8353.6
15°	10277.1	10415.0	10283.5	9870.0	9414.0	8934.7	8487.2	8133.1	7882.8	7789.5	7755.6
17.5°	10501.9	10633.4	10294.1	9698.2	9108.6	8512.7	7950.7	7588.0	7301.7	7193.6	7180.9
20°	10771.3	10830.7	10249.6	9452.2	8688.7	7965.5	7373.8	7032.4	6879.7	6803.4	6794.9
22.5°	11104.2	11040.6	10147.8	9119.2	8156.4	7333.5	6852.1	6693.1	6654.9	6637.9	6644.3
25°	11456.3	11261.2	9997.2	8684.5	7484.1	6701.6	6470.4	6514.9	6565.8	6559.5	6559.5
27.5°	11844.4	11486.0	9766.0	8107.6	6739.7	6184.1	6211.7	6375.0	6451.3	6449.2	6447.1
30°	12342.8	11740.5	9471.3	7414.1	6044.1	5819.3	5986.9	6186.2	6290.1	6285.9	6288.0
32.5°	12955.6	12020.4	9070.4	6640.1	5541.5	5550.0	5743.0	5940.2	6061.1	6050.5	6052.6
35°	13672.5	12334.3	8527.5	5876.6	5208.6	5335.8	5488.5	5626.3	5740.9	5726.0	5711.2
37.5°	14452.9	12641.8	7806.5	5193.7	4937.1	5136.5	5263.7	5287.0	5340.0	5301.9	5274.3
40°	15195.2	12877.2	6877.6	4633.8	4663.5	4966.8	5049.5	4956.2	4860.8	4848.0	4809.9
42.5°	15842.0	12955.6	5938.1	4186.4	4375.1	4788.6	4839.5	4644.4	4472.7	4392.1	4358.1
45°	16524.9	12983.2	5062.2	3811.0	4097.3	4629.6	4684.7	4423.9	4182.1	4008.2	3951.0
47.5°	17417.7	13182.6	4381.5	3533.2	3885.2	4523.6	4602.0	4247.9	3934.0	3685.9	3632.8
50°	18586.2	13577.0	3827.9	3321.1	3747.4	4453.6	4542.6	4076.1	3730.4	3431.4	3378.4
52.5°	19884.1	13939.7	3380.5	3149.3	3613.8	4330.6	4466.3	3953.1	3539.5	3196.0	3138.7
55°	20791.8	13661.9	3019.9	2971.2	3439.9	4154.5	4360.3	3849.2	3266.0	2966.9	2916.0
57.5°	20965.7	12711.8	2746.4	2786.7	3229.9	3934.0	4197.0	3618.0	3117.5	2867.3	2814.2
60°	20490.7	11388.4	2542.8	2617.0	3005.1	3656.2	3891.6	3454.7	2975.4	2761.2	2716.7
62.5°	19296.7	10033.3	2392.2	2464.3	2795.1	3374.1	3700.7	3282.9	2831.2	2640.3	2595.8
65°	16885.4	8423.6	2248.0	2328.6	2600.0	3130.2	3528.9	3123.9	2689.1	2542.8	2500.4
67.5°	12745.7	6309.2	2112.3	2184.4	2426.1	2918.1	3342.3	2966.9	2551.3	2457.9	2407.0
70°	7505.3	3951.0	1957.4	2033.8	2243.8	2697.6	3142.9	2795.1	2379.5	2337.1	2271.3
72.5°	3492.9	2377.4	1781.4	1855.7	2014.7	2402.8	2886.3	2570.3	2175.9	2082.6	1993.5
75°	2084.7	1739.0	1573.6	1639.3	1751.7	2088.9	2564.0	2341.3	1982.9	1859.9	1766.6
77.5°	1558.7	1329.7	1344.6	1414.5	1505.7	1828.1	2271.3	2161.0	1834.4	1739.0	1675.4
80°	1121.9	1009.5	1096.4	1172.8	1268.2	1662.7	2175.9	1997.7	1658.4	1531.2	1471.8
82.5°	748.6	725.3	825.0	903.4	996.8	1454.8	2044.4	1749.6	1416.7	1255.5	1124.0
85°	413.5	436.9	555.6	589.6	670.2	1024.3	1675.4	1406.1	1066.7	858.9	820.7
87.5°	171.8	201.5	299.0	288.4	356.3	610.8	1102.8	848.3	678.6	506.9	394.5
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)