

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: P317624

Luminaire Tested: **GAN-SA0D-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63579 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

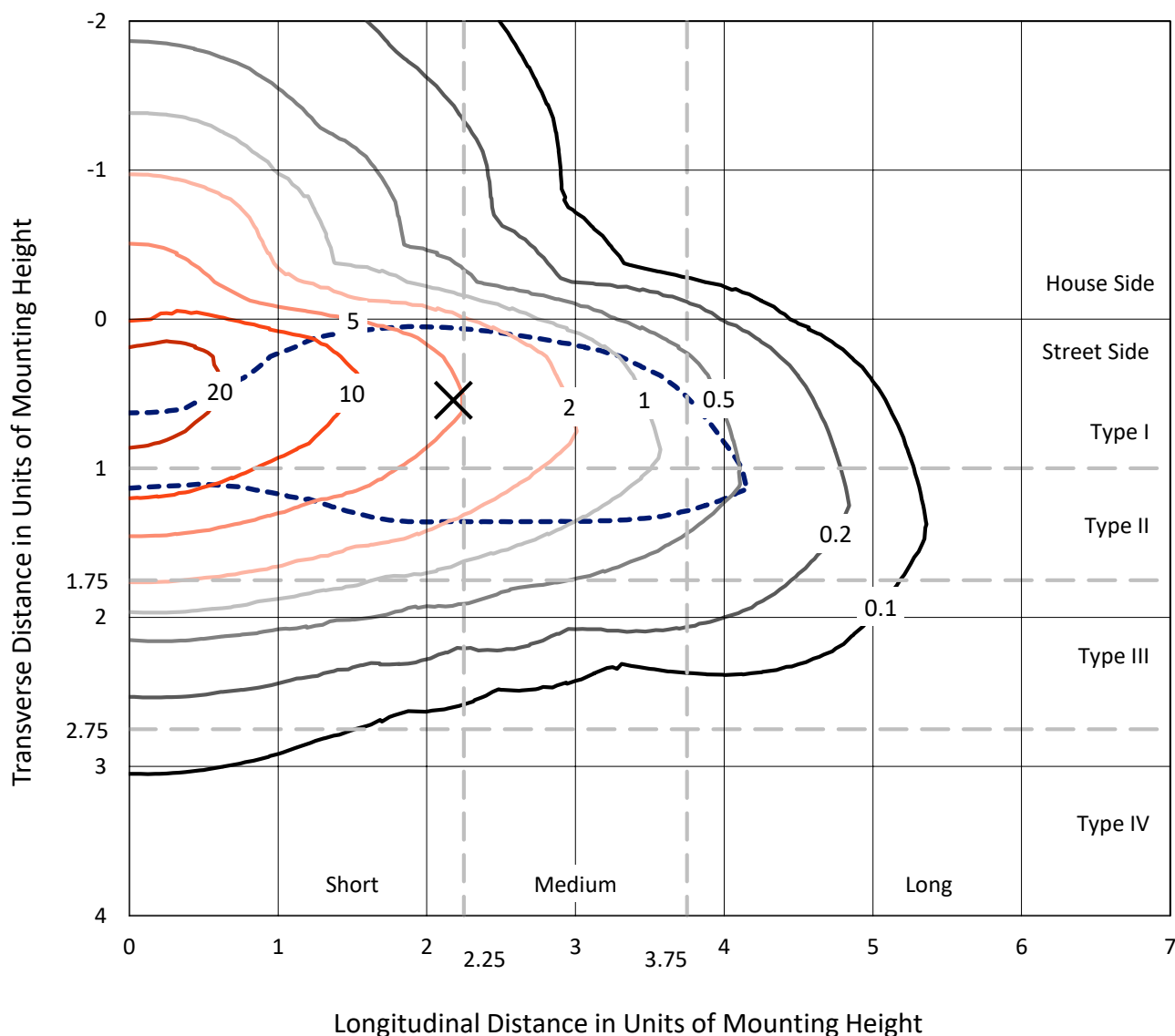
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

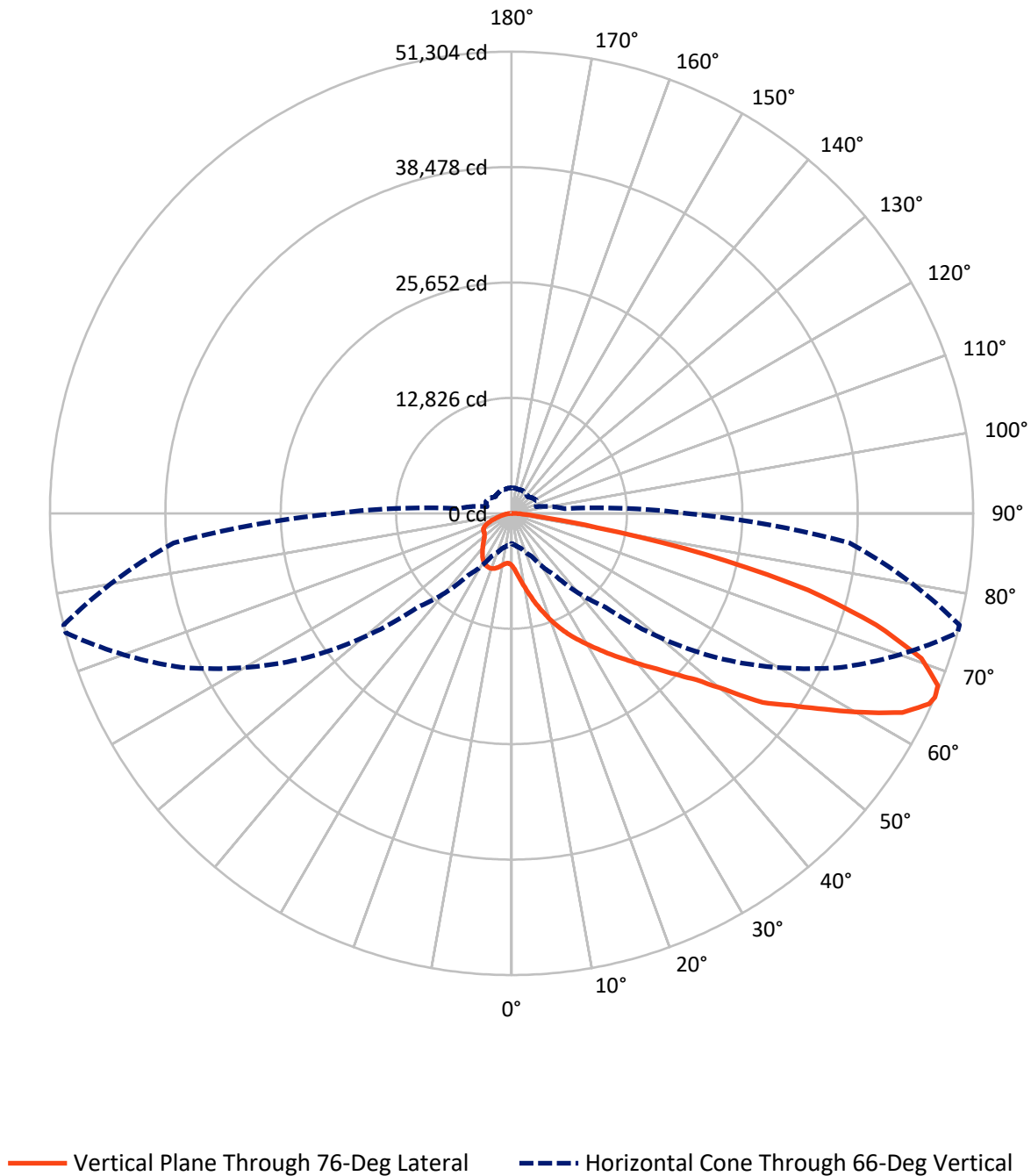
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10698.2	0.0	10698.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	52880.8	0.0	52880.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	63579.0	0.0	63579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.1	1.1
10°-20°	2772.7	4.4
20°-30°	5387.9	8.5
30°-40°	8794.3	13.8
40°-50°	12015.1	18.9
50°-60°	13995.2	22.0
60°-70°	12547.0	19.7
70°-80°	6340.7	10.0
80°-90°	1023.9	1.6
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°	63579.0	100.0
0°-180°	63579.0	100.0

Coefficient of Utilization



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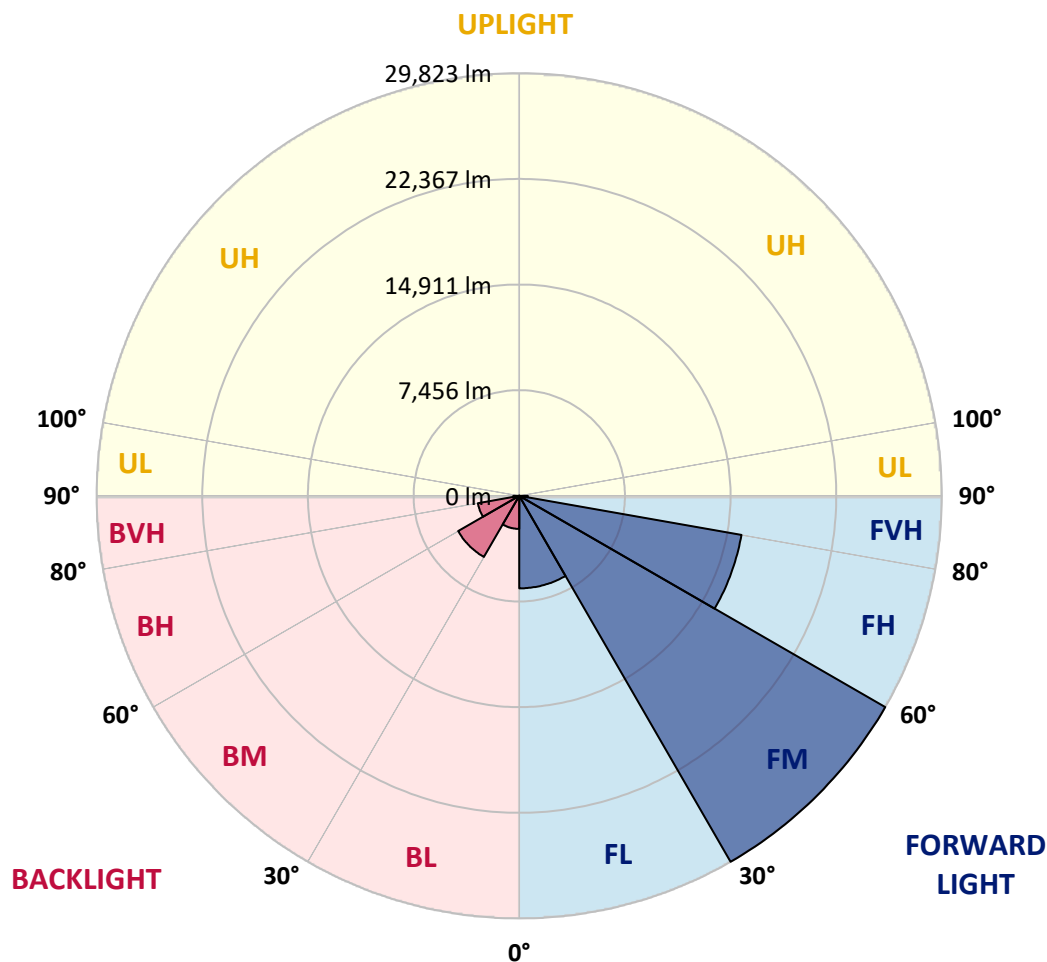
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6529.4	10.3			
FM	(30°-60°)	29823.0	46.9			
FH	(60°-80°)	15923.8	25.0			G5
FVH	(80°-90°)	604.7	1.0			G4/750
BL	(0°-30°)	2333.3	3.7	B3/2500		
BM	(30°-60°)	4981.7	7.8	B3/5000		
BH	(60°-80°)	2963.9	4.7	B4/5000		G4/5000
BVH	(80°-90°)	419.2	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2
2.5°	7707.8	7591.2	7580.4	7409.9	7371.1	7045.1	6805.6	6555.2	6270.3	6214.1	5989.7
5°	9900.8	9890.0	9741.0	9462.6	9244.6	8687.7	8137.3	7554.5	6915.6	6812.0	6307.0
7.5°	11873.6	11856.3	11741.9	11441.9	11126.7	10442.5	9656.8	8763.3	7727.2	7574.0	6736.5
10°	13371.5	13365.0	13326.2	13106.0	12838.4	12182.2	11314.5	10095.0	8670.4	8461.1	7273.9
12.5°	14528.4	14541.4	14567.3	14489.6	14362.2	13803.2	12913.9	11506.6	9676.3	9469.1	7871.8
15°	15312.0	15350.8	15484.6	15594.7	15661.6	15318.4	14457.2	12950.6	10803.0	10554.8	8534.5
17.5°	15706.9	15750.1	15981.1	16313.5	16620.0	16585.4	15901.2	14327.7	11884.4	11644.8	9246.7
20°	16048.0	16080.4	16339.4	16738.7	17280.5	17520.0	17135.8	15653.0	13069.3	12784.4	10002.2
22.5°	17036.5	17077.6	17155.3	17381.9	17861.1	18301.4	18115.8	16907.0	14155.0	13889.5	10718.8
25°	18944.6	18994.2	18825.9	18633.8	18724.4	19030.9	19065.5	18051.0	15255.8	14955.8	11489.4
27.5°	21243.3	21314.6	21027.5	20533.2	20101.5	19982.8	19941.8	18987.8	16307.0	15959.5	12251.3
30°	23494.6	23617.6	23244.2	22603.2	21811.0	21254.1	20841.9	19905.1	17343.0	17010.6	12970.1
32.5°	25694.0	25644.4	25102.6	24476.7	23548.6	22851.4	21854.2	20889.4	18508.6	18126.6	13684.5
35°	27200.6	27217.9	26715.0	25972.5	25087.5	24552.2	23209.7	21951.3	19697.9	19346.1	14496.1
37.5°	28482.7	28402.9	27833.1	27140.2	26378.3	26149.5	24796.1	23121.2	20986.5	20602.3	15359.4
40°	28910.1	28817.3	28443.9	27945.3	27334.5	27315.0	26546.6	24446.5	22443.4	22063.5	16332.9
42.5°	28651.1	28532.4	28379.1	28243.2	28055.4	28141.7	28191.4	26000.5	24045.0	23619.8	17459.6
45°	27694.9	27515.8	27623.7	27919.4	28327.3	28815.1	29676.4	27720.8	25838.7	25482.5	18782.7
47.5°	26225.0	26063.1	26399.8	27032.3	28141.7	29376.3	31081.5	29620.2	27979.8	27625.8	20667.0
50°	24157.2	24204.7	24686.0	25836.5	27513.6	29635.3	32812.6	32134.8	31092.3	30762.1	23237.7
52.5°	20764.2	20772.8	22128.3	24016.9	26399.8	29501.5	33773.1	35348.7	35342.3	34942.9	25685.4
55°	17612.8	17805.0	18877.7	21388.0	24595.4	28966.2	34444.3	36911.4	38133.1	37664.7	27966.9
57.5°	14534.9	14647.2	15663.8	18184.8	22020.4	27539.5	35132.9	38787.1	41349.2	41053.5	30803.1
60°	11033.9	11206.6	12257.8	14586.7	18726.6	25007.7	35197.6	40744.8	45193.4	44895.5	33969.5
62.5°	7161.7	7459.6	8443.8	10626.0	14742.1	21366.4	33695.4	42024.8	48836.8	48731.0	36779.8
65°	4116.1	4340.6	5024.8	6708.4	10170.6	16794.8	30123.2	41532.7	51079.4	51019.0	37830.9
66°	3362.8	3503.1	4027.6	5242.8	8392.0	14748.6	28046.7	40494.4	51301.7	51303.9	37710.1
67.5°	2689.4	2752.0	2987.3	3753.5	6192.6	11690.1	24336.4	38204.3	51025.5	51101.0	36930.9
70°	2225.3	2257.7	2331.1	2516.7	3380.1	7049.5	17274.0	32253.5	48251.9	48310.1	33889.6
72.5°	1996.6	2016.0	2044.0	2069.9	2385.1	3939.1	10550.4	25802.0	42305.4	42380.9	29255.5
75°	1808.8	1819.6	1815.2	1817.4	2000.9	2510.3	5452.2	19264.1	34206.9	34055.8	22411.1
77.5°	1588.6	1599.4	1577.8	1582.1	1769.9	1929.6	2713.2	13485.9	23084.5	22018.2	12626.9
80°	1342.5	1351.2	1342.5	1357.7	1541.1	1456.9	1577.8	7586.9	10207.3	9654.7	4489.5
82.5°	1014.5	1051.2	1077.1	1137.5	1269.2	1036.0	1055.5	2954.9	3108.1	2959.2	1377.1
85°	444.6	541.8	811.6	869.9	954.0	621.6	692.9	1204.4	1264.8	1226.0	500.8
87.5°	116.6	127.3	401.5	505.1	528.8	280.6	360.5	548.2	578.5	548.2	166.2
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°	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2	5806.2
2.5°	5870.9	5765.2	5575.2	5406.9	5279.5	5193.2	5106.9	5063.7	5037.8	5011.9	5016.2
5°	6058.7	5845.0	5519.1	5288.2	5158.7	5076.6	5033.5	5016.2	5005.4	4979.5	4979.5
7.5°	6341.5	6039.3	5590.4	5352.9	5251.5	5188.9	5163.0	5154.3	5141.4	5111.2	5115.5
10°	6697.6	6274.6	5739.3	5508.3	5415.5	5346.4	5309.8	5296.8	5273.1	5238.5	5242.8
12.5°	7116.4	6566.0	5935.7	5694.0	5581.7	5488.9	5428.5	5391.8	5350.8	5305.4	5307.6
15°	7574.0	6883.3	6147.2	5860.2	5706.9	5577.4	5480.3	5417.7	5352.9	5296.8	5294.6
17.5°	8038.0	7189.8	6309.1	5950.8	5743.6	5573.1	5441.4	5344.3	5264.4	5195.4	5188.9
20°	8538.8	7466.0	6399.8	5942.2	5674.5	5471.6	5296.8	5175.9	5087.4	5018.4	5007.6
22.5°	9048.2	7725.0	6414.9	5853.7	5521.3	5273.1	5089.6	4955.8	4865.1	4793.9	4768.0
25°	9514.4	7925.8	6352.3	5683.2	5307.6	5040.0	4860.8	4724.8	4651.4	4567.3	4541.4
27.5°	9939.6	8066.1	6227.1	5465.2	5068.0	4804.7	4636.3	4519.8	4439.9	4375.2	4353.6
30°	10321.6	8141.6	6022.0	5206.2	4821.9	4582.4	4439.9	4360.0	4291.0	4209.0	4193.8
32.5°	10684.3	8141.6	5758.7	4923.4	4578.0	4385.9	4301.8	4252.1	4174.4	4094.6	4073.0
35°	11046.9	8092.0	5447.9	4627.7	4353.6	4245.6	4241.3	4183.1	4064.3	3956.4	3928.4
37.5°	11428.9	7990.5	5098.2	4351.4	4170.1	4183.1	4219.7	4090.2	3921.9	3768.6	3727.6
40°	11860.6	7850.2	4735.6	4111.8	4016.9	4155.0	4161.5	3956.4	3628.3	3488.0	3451.3
42.5°	12367.8	7709.9	4398.9	3900.3	3896.0	4070.8	4051.4	3667.2	3470.8	3399.5	3380.1
45°	13034.8	7630.1	4079.4	3699.6	3801.0	3934.8	3863.6	3507.5	3425.4	3384.4	3367.2
47.5°	14086.0	7671.1	3785.9	3539.8	3706.0	3798.8	3513.9	3442.7	3384.4	3334.8	3317.5
50°	15402.6	7647.3	3548.5	3429.8	3598.1	3656.4	3356.4	3358.5	3328.3	3272.2	3246.3
52.5°	16393.3	7461.7	3395.2	3367.2	3503.1	3403.9	3257.1	3276.5	3261.4	3179.4	3151.3
55°	17349.5	7302.0	3317.5	3343.4	3434.1	3088.7	3140.5	3188.0	3172.9	3093.0	3080.1
57.5°	18538.8	7271.8	3270.0	3349.9	3375.8	2931.2	3028.3	3090.9	3080.1	3045.6	3039.1
60°	19995.8	7280.4	3226.9	3360.7	3311.0	2814.6	2922.5	3002.4	3008.9	3002.4	2998.1
62.5°	20796.5	7045.1	3118.9	3330.5	3196.6	2713.2	2812.4	2929.0	2931.2	2944.1	2942.0
65°	20116.6	6341.5	2918.2	3224.7	3004.5	2629.0	2717.5	2844.8	2812.4	2870.7	2870.7
66°	19456.2	5935.7	2818.9	3155.6	2922.5	2596.6	2687.3	2801.7	2760.6	2840.5	2840.5
67.5°	18107.1	5251.5	2639.8	3008.9	2806.0	2551.3	2652.7	2730.4	2674.3	2793.0	2784.4
70°	15642.2	4062.2	2279.3	2676.5	2613.9	2484.4	2605.2	2588.0	2505.9	2687.3	2652.7
72.5°	13188.1	3086.6	1830.4	2240.5	2322.5	2400.2	2538.3	2406.7	2303.1	2430.4	2354.9
75°	10233.2	2320.3	1446.2	1741.9	1962.0	2268.5	2458.5	2197.3	2048.4	2035.4	1994.4
77.5°	5532.1	1592.9	1146.1	1329.6	1558.4	2104.5	2404.5	1972.8	1748.3	1696.5	1664.2
80°	2190.8	1036.0	833.2	1008.0	1090.0	1867.0	2275.0	1711.6	1441.8	1390.0	1340.4
82.5°	904.4	613.0	537.5	675.6	710.1	1597.2	2041.9	1403.0	1113.8	1541.1	1636.1
85°	388.5	336.7	319.4	349.7	401.5	1120.2	1625.3	1070.6	1202.2	1072.7	852.6
87.5°	116.6	142.5	136.0	133.8	146.8	267.6	865.5	595.7	882.8	334.6	250.4
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)