

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: P322424

Luminaire Tested: **GAN-SA0D-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44474 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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

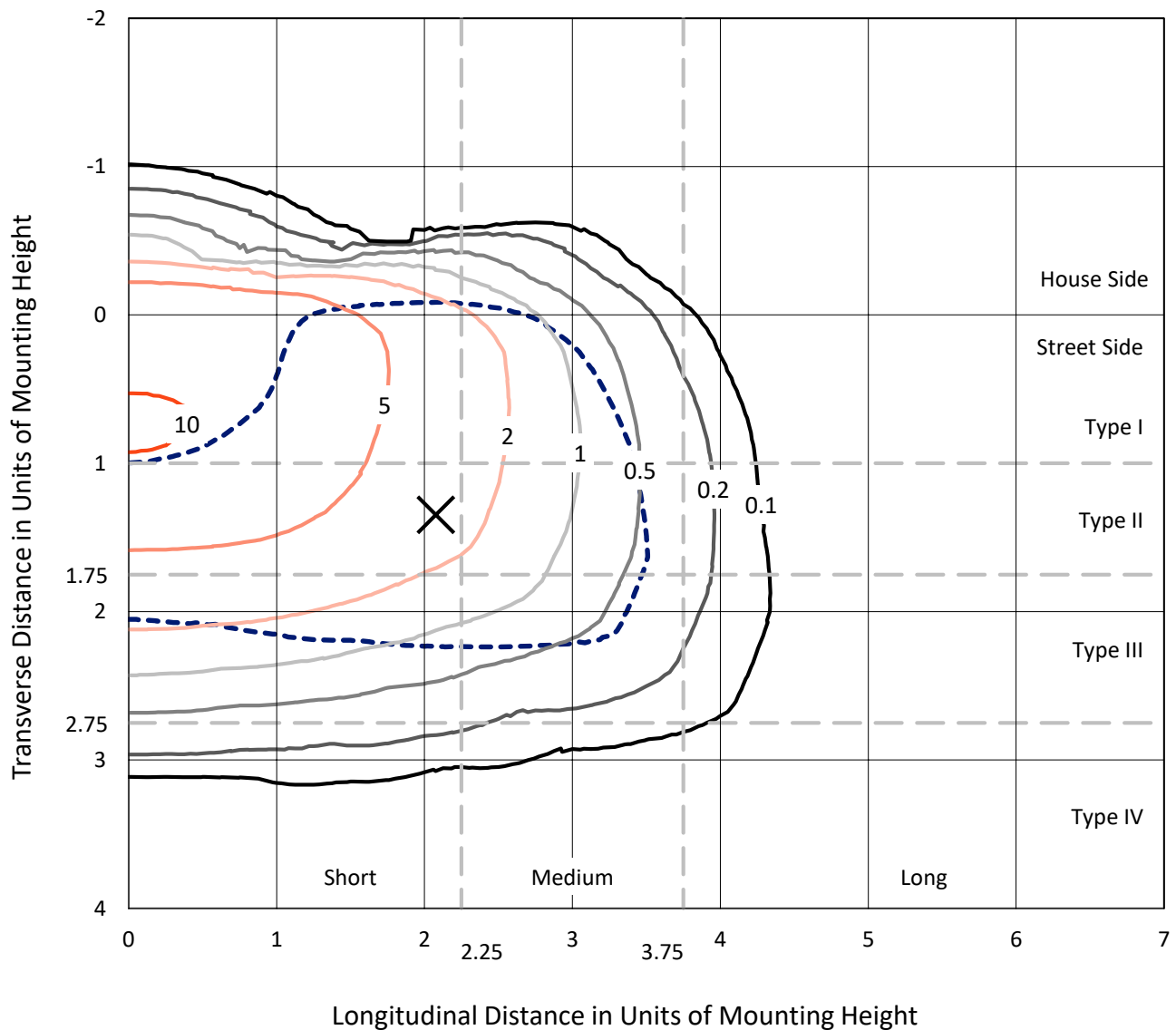


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Iso-Footcandle Lines of Horizontal Illumination

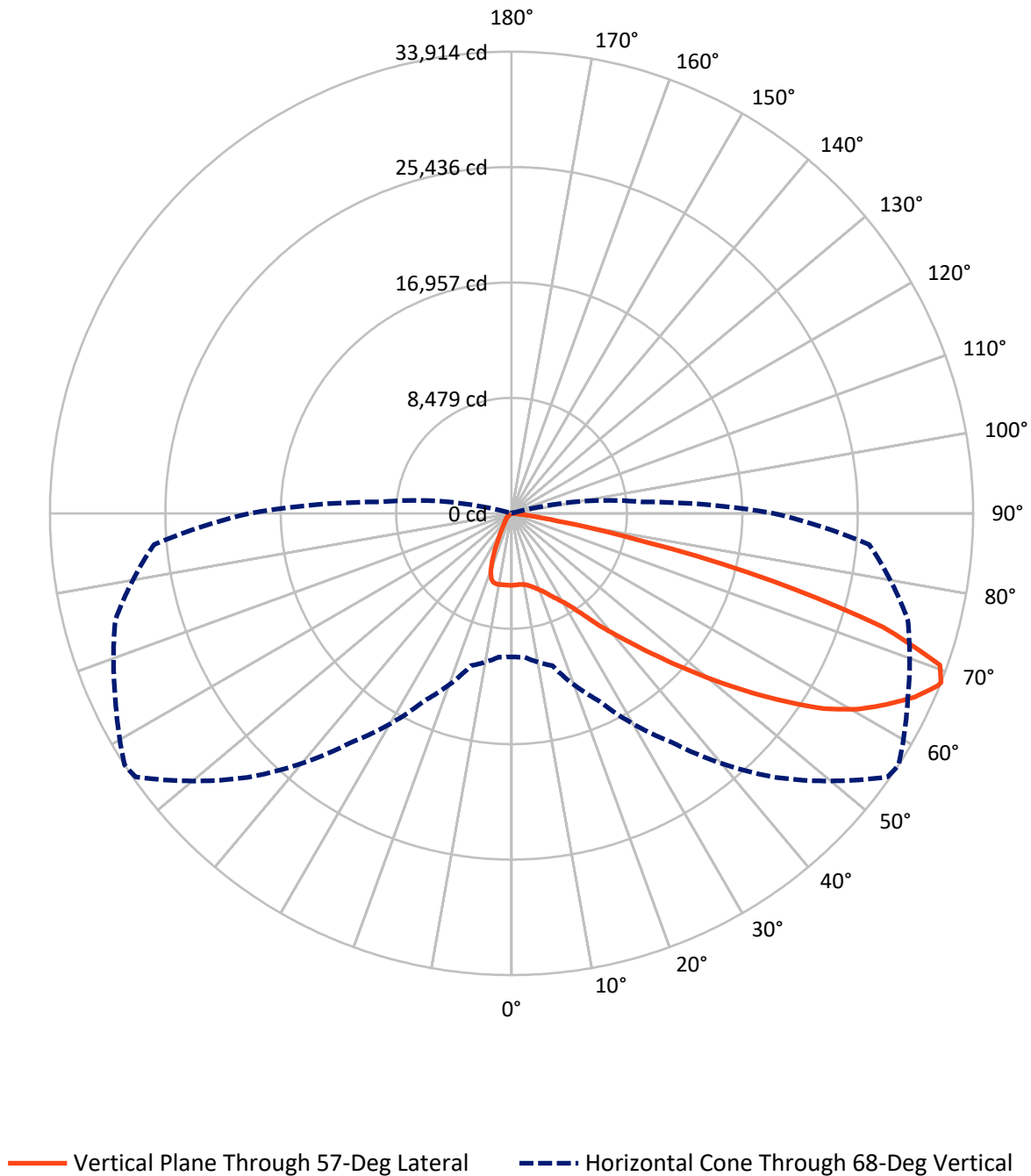
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4876.8	0.0	4876.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	39597.2	0.0	39597.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	44474.0	0.0	44474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.6	1.1
10°-20°	1370.5	3.1
20°-30°	2364.2	5.3
30°-40°	4080.5	9.2
40°-50°	6979.8	15.7
50°-60°	11167.1	25.1
60°-70°	12902.3	29.0
70°-80°	4930.2	11.1
80°-90°	184.8	0.4
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°	44474.0	100.0
0°-180°	44474.0	100.0

Coefficient of Utilization



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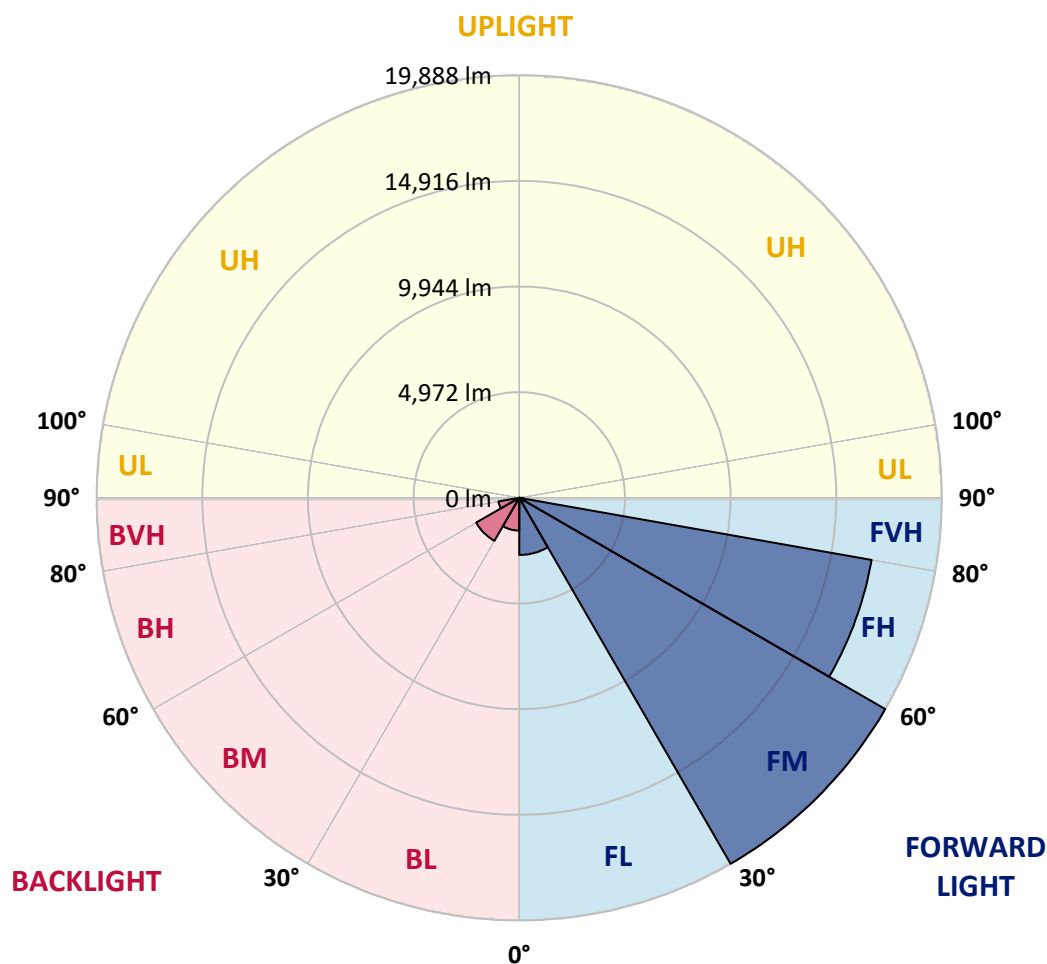
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2688.0	6.0			
FM	(30°-60°)	19888.4	44.7			
FH	(60°-80°)	16839.3	37.9			G5
FVH	(80°-90°)	181.4	0.4			G2/225
BL	(0°-30°)	1541.2	3.5	B3/2500		
BM	(30°-60°)	2339.0	5.3	B2/2500		
BH	(60°-80°)	993.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7
2.5°	5160.6	5183.7	5200.6	5211.1	5223.7	5251.0	5259.4	5272.1	5278.4	5278.4	5293.1
5°	4956.6	4981.9	5017.6	5047.1	5105.9	5181.6	5236.3	5257.3	5295.2	5328.8	5347.8
7.5°	4767.4	4796.8	4838.9	4908.3	5009.2	5131.2	5244.7	5274.2	5347.8	5419.3	5455.0
10°	4645.4	4668.5	4723.2	4822.0	4954.5	5124.9	5284.7	5320.4	5446.6	5566.5	5633.8
12.5°	4603.3	4624.4	4681.1	4792.6	4956.6	5156.4	5377.2	5429.8	5614.8	5789.4	5884.0
15°	4664.3	4668.5	4729.5	4834.7	4996.6	5234.2	5530.7	5593.8	5827.2	6054.4	6172.1
17.5°	4899.8	4880.9	4912.5	4958.7	5087.0	5337.3	5692.7	5787.3	6098.5	6365.6	6477.0
20°	5488.7	5488.7	5417.2	5291.0	5293.1	5497.1	5911.4	6018.6	6399.2	6708.4	6809.3
22.5°	6496.0	6477.0	6334.0	6024.9	5741.0	5772.6	6178.4	6317.2	6760.9	7091.1	7124.8
25°	7707.3	7684.1	7463.3	7028.0	6535.9	6218.4	6540.1	6700.0	7192.0	7484.4	7415.0
27.5°	8990.1	8971.1	8752.4	8212.0	7511.7	6929.2	6971.2	7122.7	7631.6	7919.7	7698.9
30°	10232.9	10239.2	10022.6	9467.4	8674.6	7835.5	7518.0	7606.3	8058.5	8350.8	8035.3
32.5°	11414.7	11423.2	11236.0	10615.6	9875.4	8889.1	8275.1	8251.9	8554.8	8842.9	8481.1
35°	12468.3	12489.4	12361.1	11879.5	11095.1	10062.6	9257.1	9202.5	9259.2	9585.2	9164.6
37.5°	13484.0	13496.7	13399.9	12994.1	12337.9	11351.7	10497.9	10420.1	10298.1	10548.3	10066.8
40°	14596.5	14565.0	14453.5	14085.5	13521.9	12775.3	11831.1	11696.5	11484.1	11707.1	11252.8
42.5°	15631.1	15595.4	15614.3	15197.9	14722.7	14239.0	13385.2	13153.9	13029.8	13286.4	12708.1
45°	16924.4	16905.5	16968.6	16606.9	16222.1	15870.9	15166.4	14914.0	14859.4	15160.1	14468.2
47.5°	18200.9	18247.2	18442.8	18289.3	18133.6	17824.5	17052.7	16939.2	16972.8	17336.6	16325.1
50°	19265.0	19319.7	19855.9	20032.6	20257.6	20076.8	19302.9	19233.5	19366.0	19694.0	18322.9
52.5°	20034.7	20146.1	20812.8	21626.6	22446.8	22568.7	21797.0	21733.9	21912.6	21963.1	19866.5
55°	20568.8	20667.7	21422.6	22911.5	24581.2	25107.0	24627.5	24383.6	24349.9	23851.5	21489.9
57.5°	20663.5	20653.0	21738.1	23742.2	26255.2	27611.6	27308.8	27069.0	26379.3	25597.0	23351.0
60°	20129.3	20190.3	21450.0	24030.3	27306.7	29506.3	29529.5	29218.2	28143.6	27294.0	25155.3
62.5°	18484.8	18733.0	20005.3	23275.3	27294.0	30269.7	31157.1	30919.5	29634.6	28684.1	26984.9
65°	15818.3	15906.6	17120.0	20688.7	25449.8	29950.0	32622.9	32534.6	30978.4	30034.2	27924.9
67.5°	11551.4	11360.1	12634.5	16291.5	21546.7	28086.8	33674.3	33785.8	32015.1	30311.8	26923.9
68°	10542.0	10598.8	11591.4	15204.2	20524.7	27428.6	33743.7	33914.1	32118.2	30130.9	26377.2
70°	6283.6	6392.9	7278.3	10468.4	15614.3	23704.3	32995.1	33384.1	31504.1	28265.6	22814.8
72.5°	1604.5	1734.9	2571.9	4685.3	8918.6	16701.5	27853.4	28511.6	27352.9	22930.4	15401.9
75°	660.3	694.0	919.0	1543.6	3322.6	7524.3	18358.7	19767.6	18962.2	13728.0	6960.7
77.5°	456.3	479.5	590.9	855.9	1438.4	2550.9	9000.6	10018.4	9025.8	4685.3	1518.3
80°	328.1	347.0	422.7	569.9	826.5	910.6	2933.6	3392.0	2693.9	1028.3	376.4
82.5°	195.6	210.3	315.4	405.9	502.6	435.3	729.7	828.6	780.2	511.0	168.2
85°	96.7	113.6	212.4	290.2	271.3	183.0	222.9	248.1	307.0	311.2	90.4
87.5°	6.3	12.6	124.1	174.5	75.7	42.1	65.2	79.9	109.4	153.5	37.9
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°	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7	5284.7
2.5°	5299.4	5301.5	5286.8	5280.5	5284.7	5259.4	5248.9	5253.1	5253.1	5259.4	5248.9
5°	5352.0	5352.0	5326.7	5293.1	5274.2	5225.8	5194.3	5185.8	5179.5	5175.3	5166.9
7.5°	5465.5	5452.9	5408.8	5335.2	5272.1	5166.9	5087.0	5044.9	5023.9	5015.5	5009.2
10°	5648.5	5625.4	5551.8	5415.1	5270.0	5082.8	4908.3	4784.2	4681.1	4639.1	4613.8
12.5°	5894.5	5860.9	5736.8	5509.7	5255.2	4910.4	4531.8	4168.0	3829.5	3690.7	3621.3
15°	6178.4	6130.1	5934.5	5589.6	5169.0	4521.3	3699.1	3061.9	2592.9	2416.3	2340.6
17.5°	6466.5	6403.4	6106.9	5640.1	4910.4	3715.9	2595.0	1959.9	1646.6	1562.5	1533.0
20°	6756.7	6664.2	6256.2	5602.2	4325.7	2679.1	1711.8	1432.1	1341.7	1316.4	1308.0
22.5°	7032.2	6889.2	6390.8	5455.0	3425.7	1798.0	1354.3	1266.0	1236.5	1221.8	1217.6
25°	7272.0	7072.2	6508.6	5000.8	2424.7	1358.5	1219.7	1190.3	1152.4	1125.1	1127.2
27.5°	7497.0	7255.1	6580.1	4252.1	1617.2	1160.8	1129.3	1089.3	1019.9	980.0	980.0
30°	7768.3	7499.1	6632.7	3272.2	1190.3	1026.2	1001.0	940.0	845.4	792.8	792.8
32.5°	8176.2	7869.2	6599.0	2296.4	986.3	902.2	843.3	759.2	656.1	605.6	603.5
35°	8800.8	8441.2	6359.3	1505.7	870.6	784.4	689.8	586.7	496.3	454.2	452.1
37.5°	9642.0	9206.7	5820.9	1076.7	780.2	675.0	561.5	447.9	380.6	353.3	351.2
40°	10733.4	10096.2	5051.3	872.7	696.1	569.9	433.2	347.0	300.7	279.7	281.8
42.5°	12043.5	11048.8	4128.1	752.9	614.1	469.0	338.6	273.4	243.9	229.2	225.0
45°	13498.8	11988.9	3160.7	670.8	532.0	378.5	265.0	216.6	193.5	185.1	185.1
47.5°	15099.1	12903.6	2313.2	599.3	443.7	292.3	212.4	176.6	157.7	151.4	149.3
50°	16552.2	13538.7	1667.6	523.6	363.8	231.3	172.4	147.2	134.6	126.2	126.2
52.5°	17763.5	13738.5	1228.1	441.6	294.4	185.1	143.0	126.2	113.6	107.2	107.2
55°	18829.7	13656.5	912.7	363.8	237.6	151.4	122.0	107.2	96.7	90.4	90.4
57.5°	19851.7	13391.5	681.4	296.5	191.4	122.0	103.0	90.4	79.9	75.7	75.7
60°	20686.6	12949.9	506.8	239.7	153.5	98.8	86.2	73.6	65.2	58.9	58.9
62.5°	21363.7	12462.0	372.2	197.7	122.0	77.8	67.3	61.0	48.4	42.1	42.1
65°	21368.0	11652.4	279.7	164.0	94.6	61.0	50.5	48.4	31.5	25.2	23.1
67.5°	19822.3	10045.7	214.5	140.9	73.6	46.3	37.9	40.0	16.8	10.5	8.4
68°	19260.8	9637.8	201.9	138.8	69.4	44.2	35.7	40.0	14.7	8.4	6.3
70°	16238.9	7667.3	161.9	134.6	61.0	33.6	29.4	40.0	12.6	6.3	4.2
72.5°	10386.4	4449.8	119.9	107.2	46.3	25.2	18.9	35.7	12.6	4.2	2.1
75°	4420.4	1379.5	82.0	75.7	27.3	18.9	12.6	23.1	8.4	2.1	0.0
77.5°	931.6	311.2	48.4	46.3	18.9	12.6	8.4	6.3	2.1	0.0	0.0
80°	239.7	90.4	25.2	23.1	10.5	6.3	4.2	0.0	0.0	0.0	0.0
82.5°	75.7	35.7	14.7	10.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.9	21.0	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)