

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: P322423

Luminaire Tested: **GAN-SA9D-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322423
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-SA9D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 40168 lumens
Efficiency: N/A
Efficacy: 69.9 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): 575
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



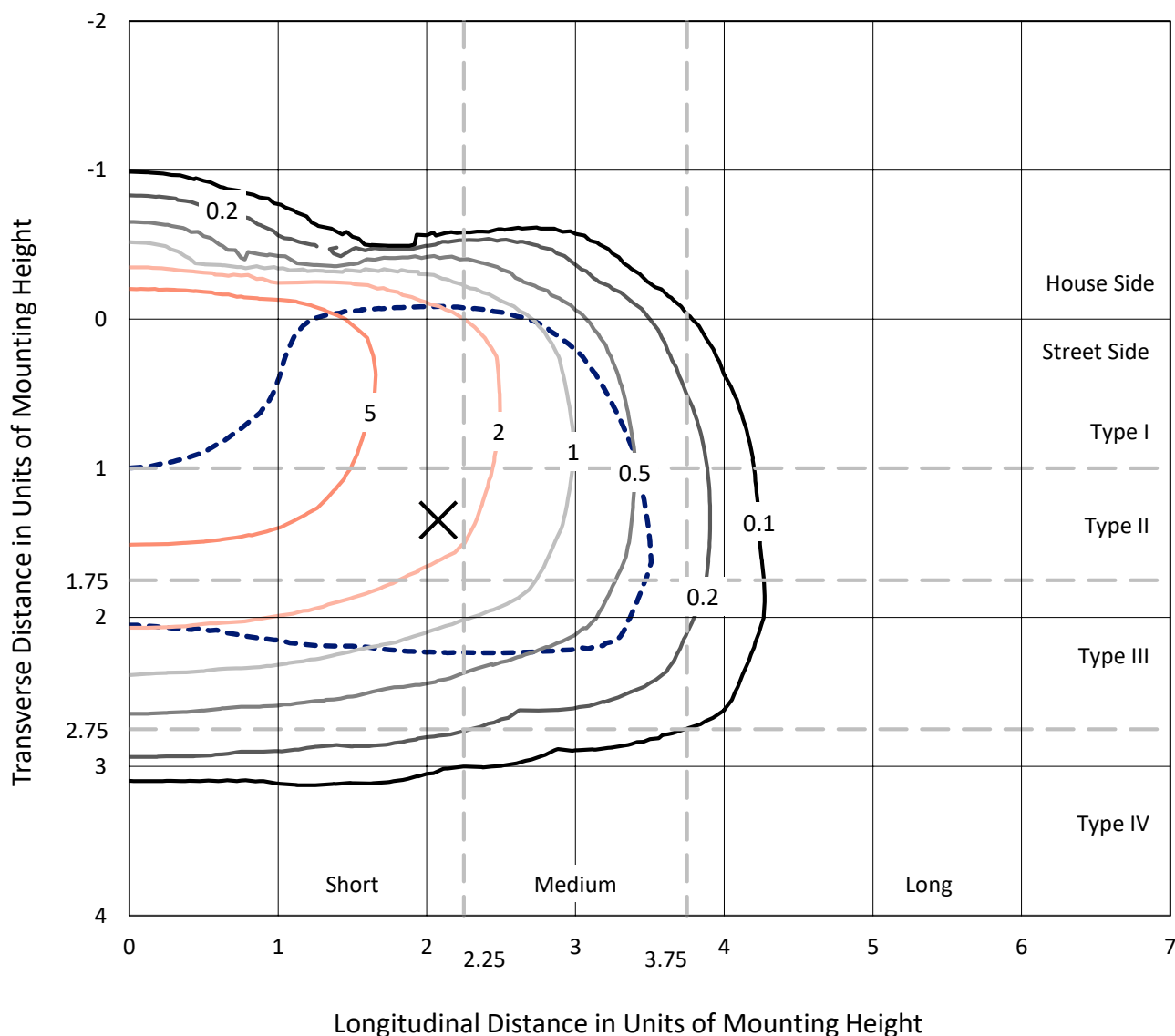
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

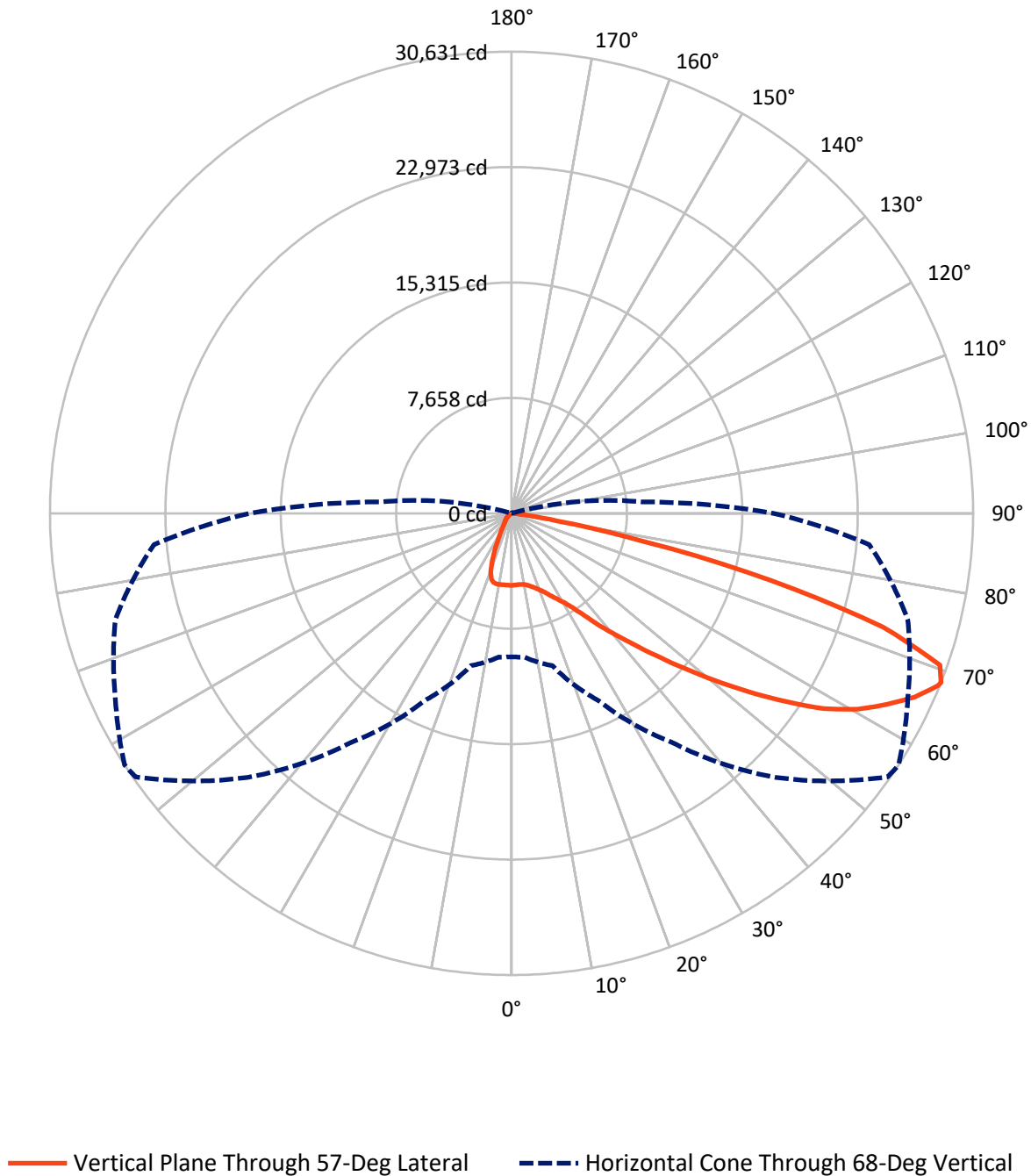


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

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	4404.7	0.0	4404.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	35763.3	0.0	35763.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	40168.0	0.0	40168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.7	1.1
10°-20°	1237.8	3.1
20°-30°	2135.3	5.3
30°-40°	3685.5	9.2
40°-50°	6304.0	15.7
50°-60°	10085.9	25.1
60°-70°	11653.1	29.0
70°-80°	4452.8	11.1
80°-90°	166.9	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°	40168.0	100.0
0°-180°	40168.0	100.0

Coefficient of Utilization



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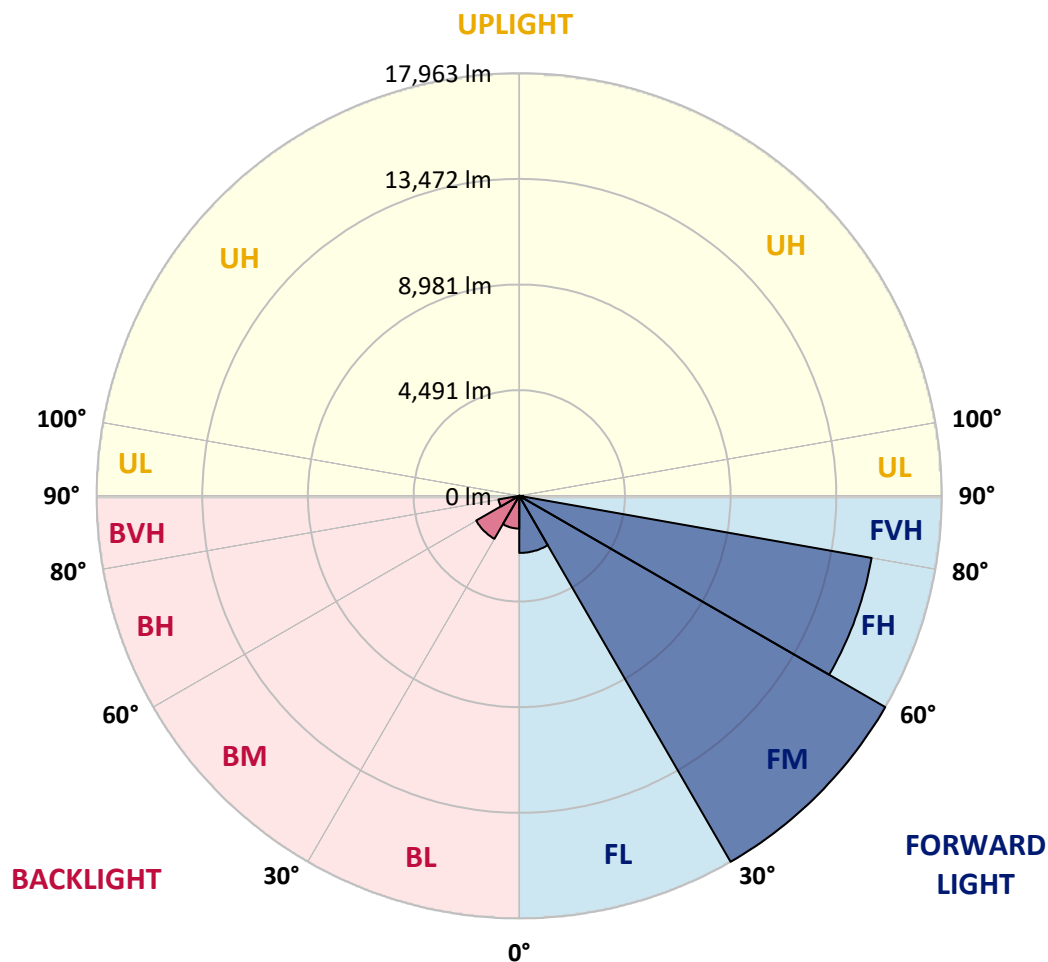
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2427.8	6.0			
FM	(30°-60°)	17962.8	44.7			
FH	(60°-80°)	15208.9	37.9			G5
FVH	(80°-90°)	163.9	0.4			G2/225
BL	(0°-30°)	1392.0	3.5	B3/2500		
BM	(30°-60°)	2112.6	5.3	B2/2500		
BH	(60°-80°)	897.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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°	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0
2.5°	4661.0	4681.8	4697.0	4706.5	4717.9	4742.6	4750.2	4761.6	4767.3	4767.3	4780.6
5°	4476.7	4499.5	4531.8	4558.4	4611.6	4680.0	4729.3	4748.3	4782.5	4812.9	4830.0
7.5°	4305.8	4332.4	4370.4	4433.0	4524.2	4634.4	4736.9	4763.5	4830.0	4894.6	4926.9
10°	4195.6	4216.5	4265.9	4355.2	4474.8	4628.7	4773.0	4805.3	4919.3	5027.5	5088.3
12.5°	4157.6	4176.6	4227.9	4328.6	4476.7	4657.2	4856.6	4904.1	5071.2	5228.9	5314.3
15°	4212.7	4216.5	4271.6	4366.6	4512.8	4727.4	4995.2	5052.2	5263.0	5468.2	5574.5
17.5°	4425.4	4408.3	4436.8	4478.6	4594.5	4820.5	5141.5	5227.0	5508.1	5749.3	5849.9
20°	4957.3	4957.3	4892.7	4778.7	4780.6	4964.8	5339.0	5435.9	5779.7	6058.9	6150.0
22.5°	5867.0	5849.9	5720.8	5441.6	5185.2	5213.7	5580.2	5705.6	6106.3	6404.5	6434.9
25°	6961.0	6940.2	6740.7	6347.6	5903.1	5616.3	5906.9	6051.3	6495.7	6759.7	6697.0
27.5°	8119.6	8102.5	7905.0	7416.9	6784.4	6258.3	6296.3	6433.0	6892.7	7152.9	6953.4
30°	9242.1	9247.8	9052.2	8550.8	7834.7	7076.9	6790.1	6869.9	7278.2	7542.2	7257.3
32.5°	10309.6	10317.2	10148.1	9587.8	8919.3	8028.5	7473.9	7453.0	7726.5	7986.7	7660.0
35°	11261.1	11280.1	11164.3	10729.3	10020.9	9088.3	8360.9	8311.5	8362.8	8657.1	8277.3
37.5°	12178.5	12189.9	12102.5	11736.0	11143.4	10252.6	9481.5	9411.2	9301.0	9527.0	9092.1
40°	13183.3	13154.8	13054.1	12721.7	12212.7	11538.4	10685.6	10564.1	10372.2	10573.6	10163.3
42.5°	14117.7	14085.4	14102.5	13726.5	13297.2	12860.4	12089.2	11880.3	11768.3	12000.0	11477.7
45°	15285.8	15268.7	15325.7	14999.0	14651.4	14334.2	13698.0	13470.1	13420.7	13692.3	13067.4
47.5°	16438.7	16480.5	16657.1	16518.5	16377.9	16098.7	15401.7	15299.1	15329.5	15658.1	14744.5
50°	17399.8	17449.1	17933.5	18093.0	18296.3	18132.9	17434.0	17371.3	17490.9	17787.2	16548.9
52.5°	18094.9	18195.6	18797.7	19532.7	20273.5	20383.6	19686.6	19629.6	19791.0	19836.6	17943.0
55°	18577.4	18666.6	19348.5	20693.2	22201.3	22676.1	22243.1	22022.7	21992.3	21542.2	19409.3
57.5°	18662.8	18653.3	19633.4	21443.4	23713.1	24938.2	24664.7	24448.2	23825.2	23118.7	21090.2
60°	18180.4	18235.5	19373.2	21703.6	24662.8	26649.5	26670.4	26389.3	25418.7	24651.4	22719.8
62.5°	16695.1	16919.2	18068.3	21021.8	24651.4	27339.0	28140.5	27925.9	26765.4	25906.9	24372.2
65°	14286.8	14366.5	15462.4	18685.6	22985.7	27050.3	29464.3	29384.5	27979.0	27126.2	25221.2
67.5°	10433.0	10260.2	11411.2	14714.1	19460.5	25367.5	30414.0	30514.6	28915.4	27376.9	24317.1
68°	9521.3	9572.6	10469.1	13732.2	18537.5	24773.0	30476.7	30630.5	29008.5	27213.6	23823.3
70°	5675.2	5774.0	6573.6	9454.9	14102.5	21409.3	29800.5	30151.9	28453.9	25528.9	20605.8
72.5°	1449.2	1566.9	2322.9	4231.7	8055.1	15084.5	25156.6	25751.1	24704.6	20710.3	13910.7
75°	596.4	626.8	830.0	1394.1	3000.9	6795.8	16581.2	17853.7	17126.3	12398.8	6286.8
77.5°	412.2	433.0	533.7	773.0	1299.1	2303.9	8129.1	9048.4	8151.9	4231.7	1371.3
80°	296.3	313.4	381.8	514.7	746.4	822.4	2649.6	3063.6	2433.0	928.8	340.0
82.5°	176.6	189.9	284.9	366.6	453.9	393.2	659.1	748.3	704.7	461.5	151.9
85°	87.4	102.6	191.8	262.1	245.0	165.2	201.3	224.1	277.3	281.1	81.7
87.5°	5.7	11.4	112.1	157.6	68.4	38.0	58.9	72.2	98.8	138.7	34.2
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°	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0	4773.0
2.5°	4786.3	4788.2	4774.9	4769.2	4773.0	4750.2	4740.7	4744.5	4744.5	4750.2	4740.7
5°	4833.8	4833.8	4811.0	4780.6	4763.5	4719.8	4691.3	4683.7	4678.1	4674.3	4666.7
7.5°	4936.4	4925.0	4885.1	4818.6	4761.6	4666.7	4594.5	4556.5	4537.5	4529.9	4524.2
10°	5101.6	5080.7	5014.2	4890.8	4759.7	4590.7	4433.0	4321.0	4227.9	4189.9	4167.1
12.5°	5323.8	5293.4	5181.4	4976.2	4746.4	4434.9	4093.1	3764.5	3458.7	3333.3	3270.6
15°	5580.2	5536.5	5359.9	5048.4	4668.6	4083.6	3340.9	2765.4	2341.9	2182.3	2114.0
17.5°	5840.4	5783.5	5515.7	5094.0	4434.9	3356.1	2343.8	1770.2	1487.2	1411.2	1384.6
20°	6102.5	6019.0	5650.5	5059.8	3906.9	2419.7	1546.1	1293.4	1211.8	1189.0	1181.4
22.5°	6351.4	6222.2	5772.1	4926.9	3094.0	1623.9	1223.2	1143.4	1116.8	1103.5	1099.7
25°	6567.9	6387.4	5878.4	4516.6	2189.9	1227.0	1101.6	1075.0	1040.8	1016.1	1018.0
27.5°	6771.1	6552.7	5943.0	3840.4	1460.6	1048.4	1019.9	983.9	921.2	885.1	885.1
30°	7016.1	6773.0	5990.5	2955.4	1075.0	926.9	904.1	849.0	763.5	716.0	716.0
32.5°	7384.6	7107.3	5960.1	2074.1	890.8	814.8	761.6	685.7	592.6	547.0	545.1
35°	7948.7	7623.9	5743.6	1359.9	786.3	708.5	623.0	529.9	448.2	410.3	408.4
37.5°	8708.4	8315.3	5257.3	972.5	704.7	609.7	507.1	404.6	343.8	319.1	317.2
40°	9694.2	9118.7	4562.2	788.2	628.7	514.7	391.3	313.4	271.6	252.6	254.5
42.5°	10877.5	9979.1	3728.4	680.0	554.6	423.6	305.8	246.9	220.3	207.0	203.2
45°	12191.8	10828.1	2854.7	605.9	480.5	341.9	239.3	195.6	174.7	167.1	167.1
47.5°	13637.2	11654.3	2089.3	541.3	400.8	264.0	191.8	159.5	142.4	136.8	134.9
50°	14949.6	12227.9	1506.2	472.9	328.6	208.9	155.7	133.0	121.6	114.0	114.0
52.5°	16043.6	12408.3	1109.2	398.9	265.9	167.1	129.2	114.0	102.6	96.9	96.9
55°	17006.6	12334.3	824.3	328.6	214.6	136.8	110.2	96.9	87.4	81.7	81.7
57.5°	17929.7	12094.9	615.4	267.8	172.8	110.2	93.1	81.7	72.2	68.4	68.4
60°	18683.7	11696.1	457.7	216.5	138.7	89.3	77.9	66.5	58.9	53.2	53.2
62.5°	19295.3	11255.4	336.2	178.5	110.2	70.3	60.8	55.1	43.7	38.0	38.0
65°	19299.1	10524.2	252.6	148.1	85.5	55.1	45.6	43.7	28.5	22.8	20.9
67.5°	17903.1	9073.1	193.7	127.3	66.5	41.8	34.2	36.1	15.2	9.5	7.6
68°	17396.0	8704.6	182.3	125.4	62.7	39.9	32.3	36.1	13.3	7.6	5.7
70°	14666.6	6925.0	146.2	121.6	55.1	30.4	26.6	36.1	11.4	5.7	3.8
72.5°	9380.8	4019.0	108.3	96.9	41.8	22.8	17.1	32.3	11.4	3.8	1.9
75°	3992.4	1246.0	74.1	68.4	24.7	17.1	11.4	20.9	7.6	1.9	0.0
77.5°	841.4	281.1	43.7	41.8	17.1	11.4	7.6	5.7	1.9	0.0	0.0
80°	216.5	81.7	22.8	20.9	9.5	5.7	3.8	0.0	0.0	0.0	0.0
82.5°	68.4	32.3	13.3	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.2	19.0	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	5.7	1.9	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)