

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: P322741

Luminaire Tested: **GAN-SA7D-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30970 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

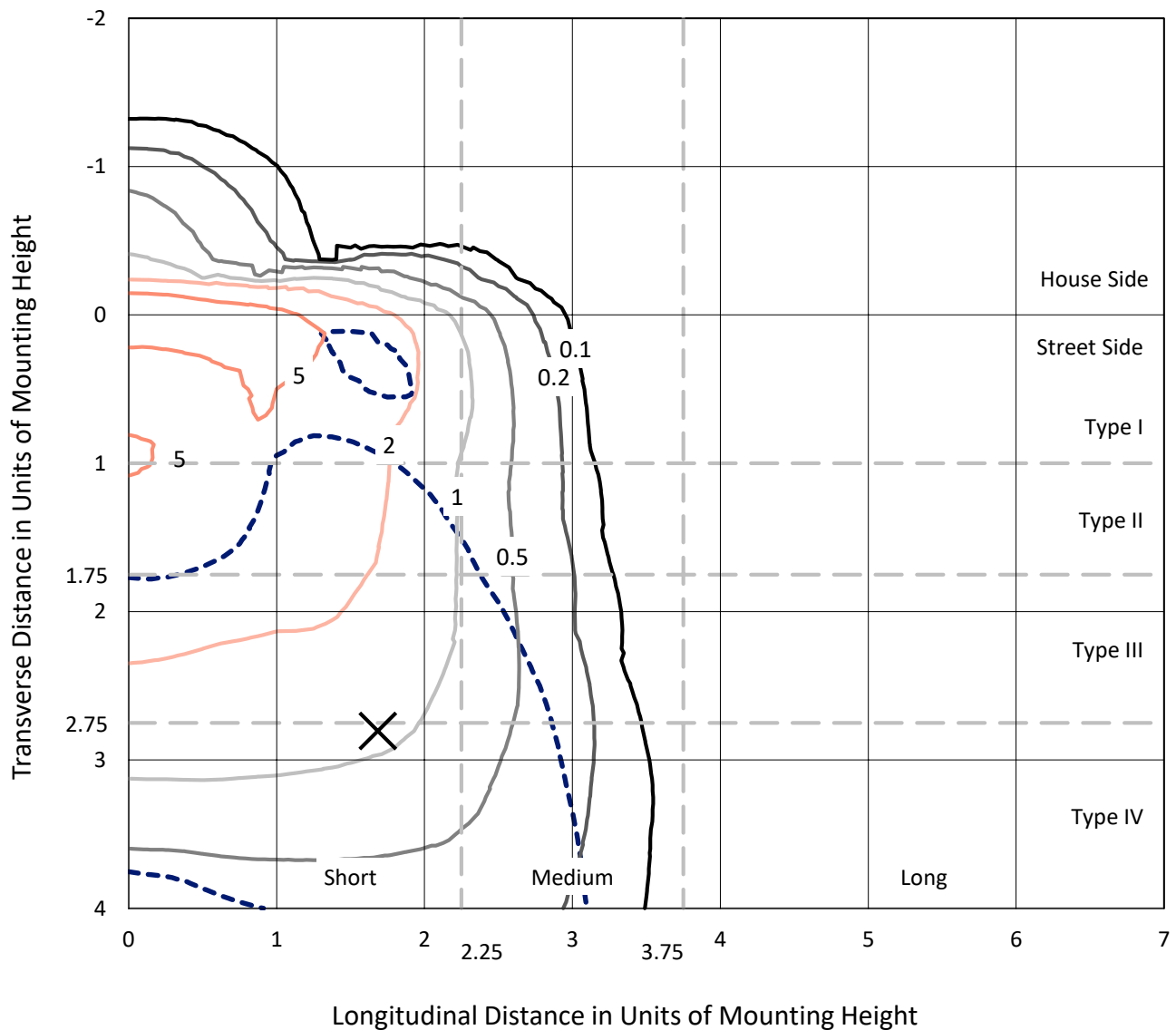
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

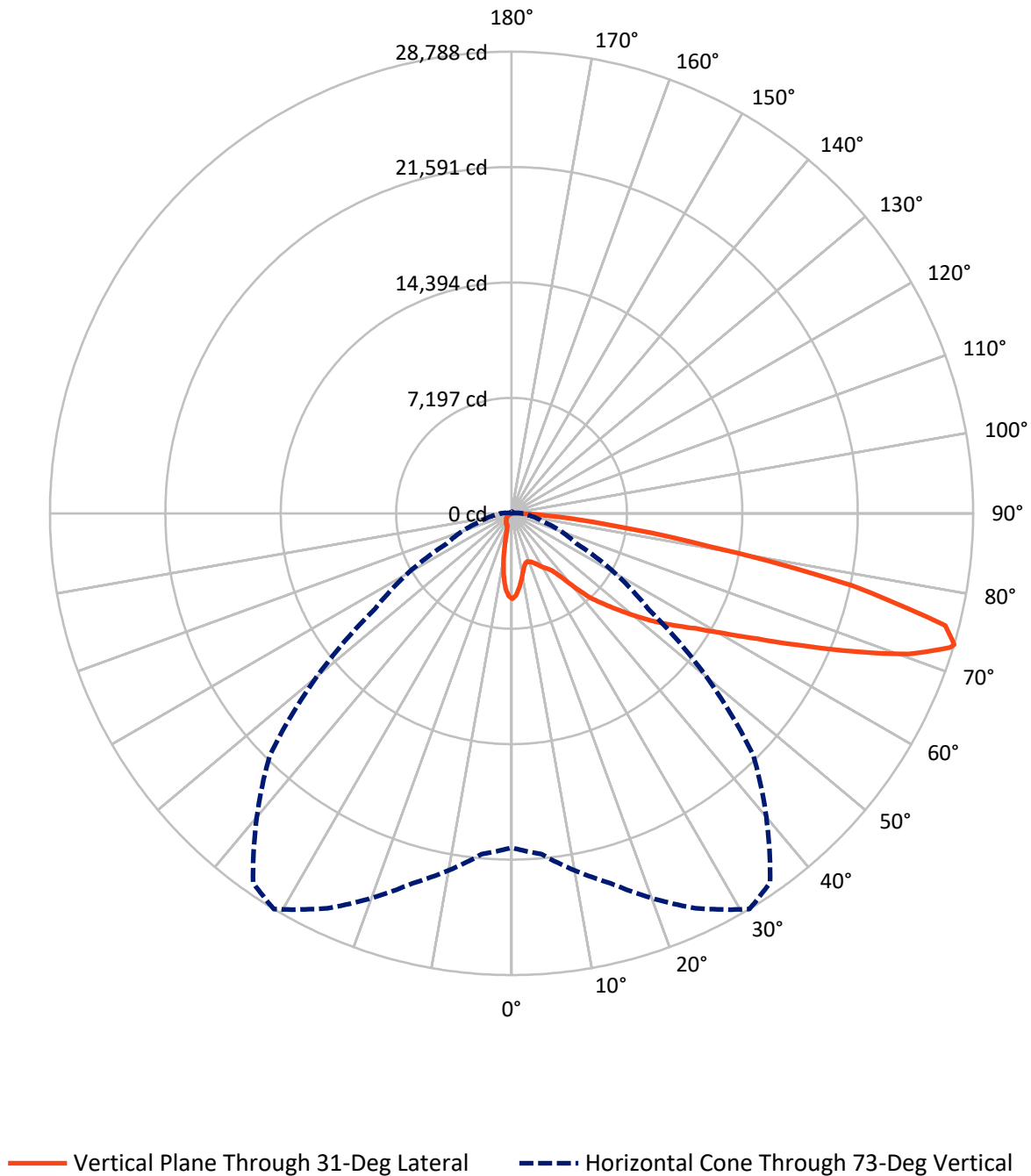
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2823.0	0.0	2823.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	28147.0	0.0	28147.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	30970.0	0.0	30970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	1.4
10°-20°	959.3	3.1
20°-30°	1437.3	4.6
30°-40°	2286.7	7.4
40°-50°	4083.5	13.2
50°-60°	6336.4	20.5
60°-70°	8423.3	27.2
70°-80°	6336.0	20.5
80°-90°	665.8	2.1
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°	30970.0	100.0
0°-180°	30970.0	100.0

Coefficient of Utilization



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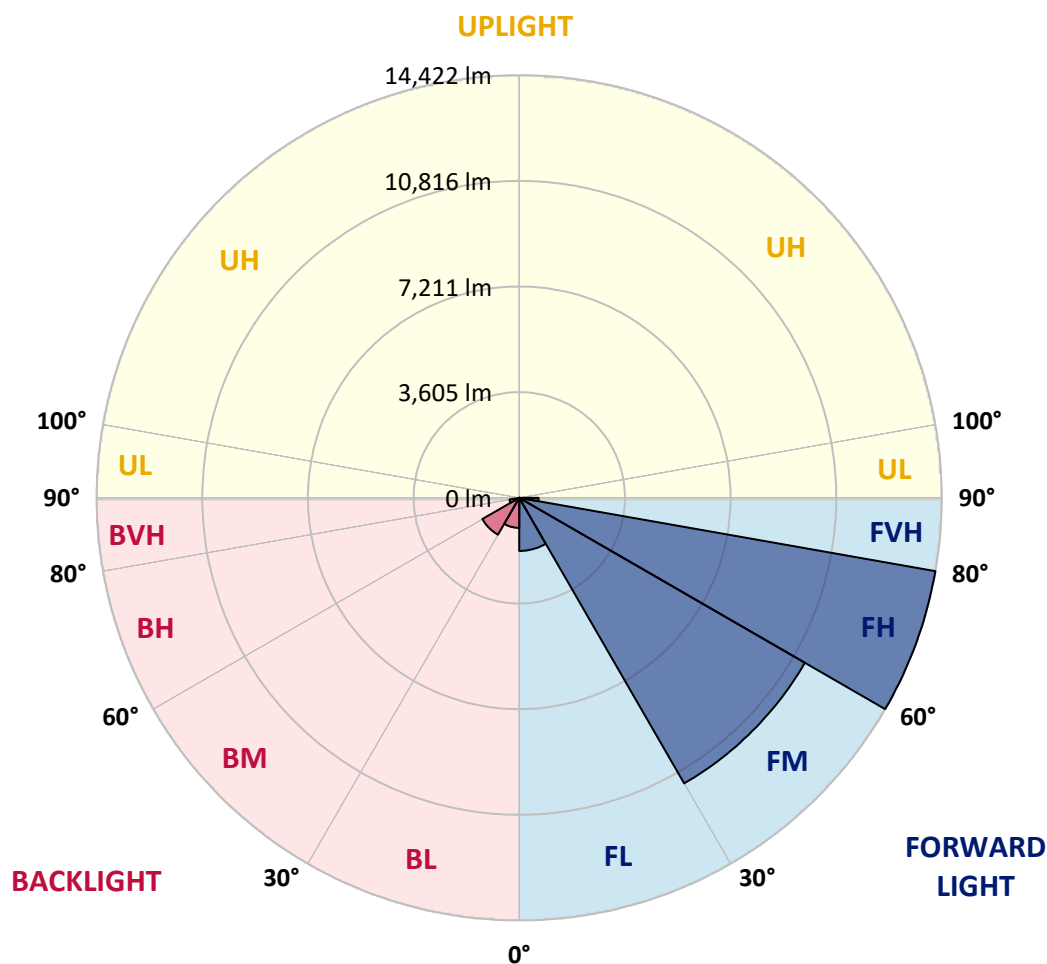
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1811.8	5.9			
FM	(30°-60°)	11253.4	36.3			
FH	(60°-80°)	14421.6	46.6			G5
FVH	(80°-90°)	660.2	2.1			G4/750
BL	(0°-30°)	1026.6	3.3	B3/2500		
BM	(30°-60°)	1453.1	4.7	B2/2500		
BH	(60°-80°)	337.8	1.1	B1/500		G1/500
BVH	(80°-90°)	5.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5
2.5°	5049.6	5070.8	5093.6	5098.1	5136.0	5137.5	5192.1	5233.0	5273.9	5313.3	5326.9
5°	4531.3	4566.2	4607.1	4648.0	4728.3	4760.1	4893.5	5029.9	5160.2	5284.5	5345.1
7.5°	3978.2	4017.6	4075.1	4176.7	4266.1	4328.2	4538.9	4781.4	5023.8	5252.7	5384.5
10°	3473.5	3509.9	3570.5	3678.1	3816.0	3900.9	4184.3	4520.7	4876.8	5223.9	5443.6
12.5°	3152.2	3171.9	3205.3	3320.4	3444.7	3540.2	3873.6	4290.3	4755.6	5222.4	5539.1
15°	3093.1	3099.2	3071.9	3123.4	3220.4	3312.9	3650.8	4103.9	4663.2	5246.6	5663.4
17.5°	3187.1	3184.0	3093.1	3087.0	3164.3	3240.1	3541.7	3975.1	4598.0	5302.7	5824.0
20°	3329.5	3318.9	3161.3	3132.5	3214.3	3285.6	3534.1	3926.6	4573.7	5396.6	6019.5
22.5°	3519.0	3500.8	3253.8	3223.4	3311.3	3385.6	3628.1	3973.6	4595.0	5522.4	6246.8
25°	3753.9	3726.6	3412.9	3379.5	3468.9	3543.2	3796.3	4108.5	4658.6	5675.5	6534.8
27.5°	4019.1	3979.7	3667.5	3581.1	3682.6	3759.9	4020.6	4314.6	4758.6	5837.7	6887.9
30°	4269.1	4217.6	3935.7	3793.3	3917.5	4003.9	4263.1	4560.1	4919.3	6087.7	7371.3
32.5°	4520.7	4463.1	4175.2	4005.4	4117.6	4211.5	4513.1	4898.1	5220.9	6469.6	8013.9
35°	5099.6	5039.0	4685.9	4405.5	4404.0	4457.0	4863.2	5360.3	5619.4	7001.5	8780.7
37.5°	6074.1	6039.2	5702.8	5170.8	5028.4	4969.3	5340.6	5911.9	6192.3	7733.5	9646.1
40°	7141.0	7110.7	6733.3	6251.4	6034.7	5889.2	6025.6	6680.3	7001.5	8627.7	10529.6
42.5°	8345.8	8201.8	7528.9	7385.0	7191.0	7080.4	6957.6	7627.4	7995.7	9600.6	11405.6
45°	9440.0	9197.5	8324.6	8106.3	8062.4	8089.7	8157.9	8900.5	9114.1	10756.9	12278.5
47.5°	10091.6	9900.7	9230.8	9021.7	9009.6	9189.9	9705.2	10338.7	10228.0	11764.7	13046.8
50°	10711.5	10538.7	9982.5	10034.0	10090.1	10335.6	11461.6	11817.8	11244.9	12678.6	13751.5
52.5°	11213.1	10949.4	10658.4	10947.9	11223.7	11619.2	13274.1	13145.3	11966.3	13406.0	14354.7
55°	11502.5	11382.8	11523.8	11814.7	12333.0	12975.6	14985.1	14250.1	12493.7	14069.8	14756.3
57.5°	12563.4	12328.5	12608.9	12860.4	13536.3	14435.0	16450.6	15073.0	12874.1	14480.5	14848.7
60°	13847.0	13657.6	13822.8	14241.0	15153.4	16209.6	17820.6	15744.4	13072.6	14744.2	14609.3
62.5°	15889.9	15639.8	15536.8	16005.1	17214.4	18367.7	18860.2	16209.6	13028.6	14627.5	13787.9
65°	18626.8	18367.7	17907.0	18331.3	19869.5	20683.4	20022.6	16308.2	12725.5	13683.3	11711.7
67.5°	21430.5	21242.6	20848.6	21563.9	22952.0	23214.2	21251.7	16068.7	11749.6	11094.9	8274.6
70°	23282.4	23202.1	23458.2	25040.4	26278.5	26202.8	22379.2	14782.1	9158.1	6822.7	4093.3
72.5°	21947.3	22332.2	24223.5	27092.4	28604.8	27986.5	21800.3	11351.0	5234.5	2624.8	1183.6
73°	20841.0	21333.5	23879.5	27169.6	28788.2	28110.8	21313.8	10419.0	4461.6	2071.7	897.2
75°	14498.7	15103.3	19769.5	25304.1	27930.4	26783.2	17766.1	6377.2	2067.1	918.4	362.2
77.5°	7039.4	7486.5	10885.7	18282.8	21721.5	20925.8	11060.0	2376.3	933.5	574.4	166.7
80°	2627.9	2921.9	4725.3	9305.1	12552.8	12881.6	4864.7	898.7	621.3	462.2	84.9
82.5°	688.0	766.8	1742.8	4149.4	6433.2	6733.3	1533.7	453.1	454.6	380.4	51.5
85°	219.7	251.6	544.1	1862.5	3031.0	2661.2	400.1	219.7	330.4	283.4	28.8
87.5°	27.3	34.9	172.8	438.0	668.3	371.3	62.1	65.2	140.9	157.6	16.7
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°	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5	5328.5
2.5°	5340.6	5333.0	5334.5	5295.1	5269.3	5217.8	5164.8	5140.5	5114.8	5104.2	5114.8
5°	5367.9	5354.2	5314.8	5193.6	5064.8	4898.1	4742.0	4623.8	4475.2	4434.3	4476.7
7.5°	5410.3	5383.0	5267.8	5020.8	4734.4	4416.1	4058.5	3797.8	3584.1	3446.2	3496.2
10°	5472.4	5420.9	5189.0	4769.2	4257.0	3693.2	3185.6	2790.0	2509.6	2394.5	2389.9
12.5°	5577.0	5480.0	5092.0	4441.9	3673.5	2921.9	2256.6	1827.7	1600.4	1453.4	1450.3
15°	5692.2	5549.7	4969.3	4049.4	2994.6	2092.9	1453.4	1127.5	980.5	933.5	927.5
17.5°	5833.1	5630.0	4810.2	3565.9	2283.8	1386.7	948.7	854.7	848.7	844.1	844.1
20°	6010.4	5725.5	4605.6	3012.8	1620.1	926.0	806.2	812.3	815.3	809.3	810.8
22.5°	6216.5	5822.5	4361.6	2418.7	1095.7	774.4	771.4	779.0	782.0	779.0	780.5
25°	6456.0	5934.6	4064.5	1795.9	791.1	735.0	742.6	753.2	760.8	760.8	760.8
27.5°	6753.0	6071.0	3706.9	1253.3	683.5	694.1	715.3	735.0	745.6	748.7	748.7
30°	7139.5	6240.8	3278.0	859.3	621.3	639.5	678.9	716.8	736.5	739.6	741.1
32.5°	7627.4	6431.7	2780.9	635.0	568.3	581.9	624.4	688.0	725.9	732.0	732.0
35°	8186.7	6653.0	2246.0	553.2	530.4	535.0	568.3	641.1	707.7	724.4	725.9
37.5°	8798.9	6871.2	1708.0	516.8	498.6	498.6	522.8	585.0	663.8	715.3	721.4
40°	9370.3	7003.1	1197.2	488.0	469.8	469.8	491.0	536.5	610.7	688.0	704.7
42.5°	9897.6	7048.5	833.5	460.7	442.5	447.1	465.3	501.6	557.7	635.0	650.1
45°	10440.2	7041.0	607.7	428.9	415.2	428.9	442.5	469.8	510.7	554.7	557.7
47.5°	10849.4	6977.3	481.9	398.6	389.5	407.7	419.8	438.0	460.7	457.7	457.7
50°	11232.8	6822.7	388.0	357.7	363.7	384.9	391.0	397.1	398.6	369.8	366.7
52.5°	11523.8	6581.8	310.7	313.7	338.0	359.2	353.1	344.0	328.9	294.0	287.9
55°	11620.8	6118.0	244.0	259.1	300.1	327.3	304.6	284.9	256.1	227.3	221.3
57.5°	11445.0	5519.4	198.5	201.6	253.1	275.8	250.1	227.3	195.5	171.3	166.7
60°	11072.1	4854.1	163.7	151.5	195.5	215.2	198.5	175.8	147.0	128.8	127.3
62.5°	10332.6	4144.9	134.9	118.2	148.5	165.2	154.6	137.9	113.7	101.5	100.0
65°	8777.7	3315.9	109.1	95.5	115.2	128.8	119.7	107.6	89.4	80.3	78.8
67.5°	6127.1	2241.4	89.4	78.8	90.9	101.5	94.0	87.9	71.2	69.7	71.2
70°	2955.2	1080.5	74.3	63.7	71.2	78.8	75.8	71.2	68.2	78.8	90.9
72.5°	847.2	362.2	59.1	53.0	57.6	62.1	65.2	63.7	74.3	95.5	110.6
73°	651.7	292.5	56.1	50.0	54.6	60.6	63.7	62.1	75.8	97.0	110.6
75°	278.8	140.9	42.4	40.9	45.5	53.0	56.1	56.1	75.8	98.5	106.1
77.5°	125.8	75.8	27.3	31.8	39.4	42.4	47.0	47.0	60.6	75.8	75.8
80°	71.2	40.9	21.2	24.2	28.8	28.8	28.8	25.8	27.3	30.3	33.3
82.5°	45.5	27.3	16.7	19.7	18.2	15.2	12.1	12.1	10.6	12.1	15.2
85°	25.8	15.2	15.2	12.1	7.6	6.1	7.6	6.1	1.5	0.0	1.5
87.5°	15.2	9.1	4.5	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)