

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: P322939

Luminaire Tested: **GAN-SA5D-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28107 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

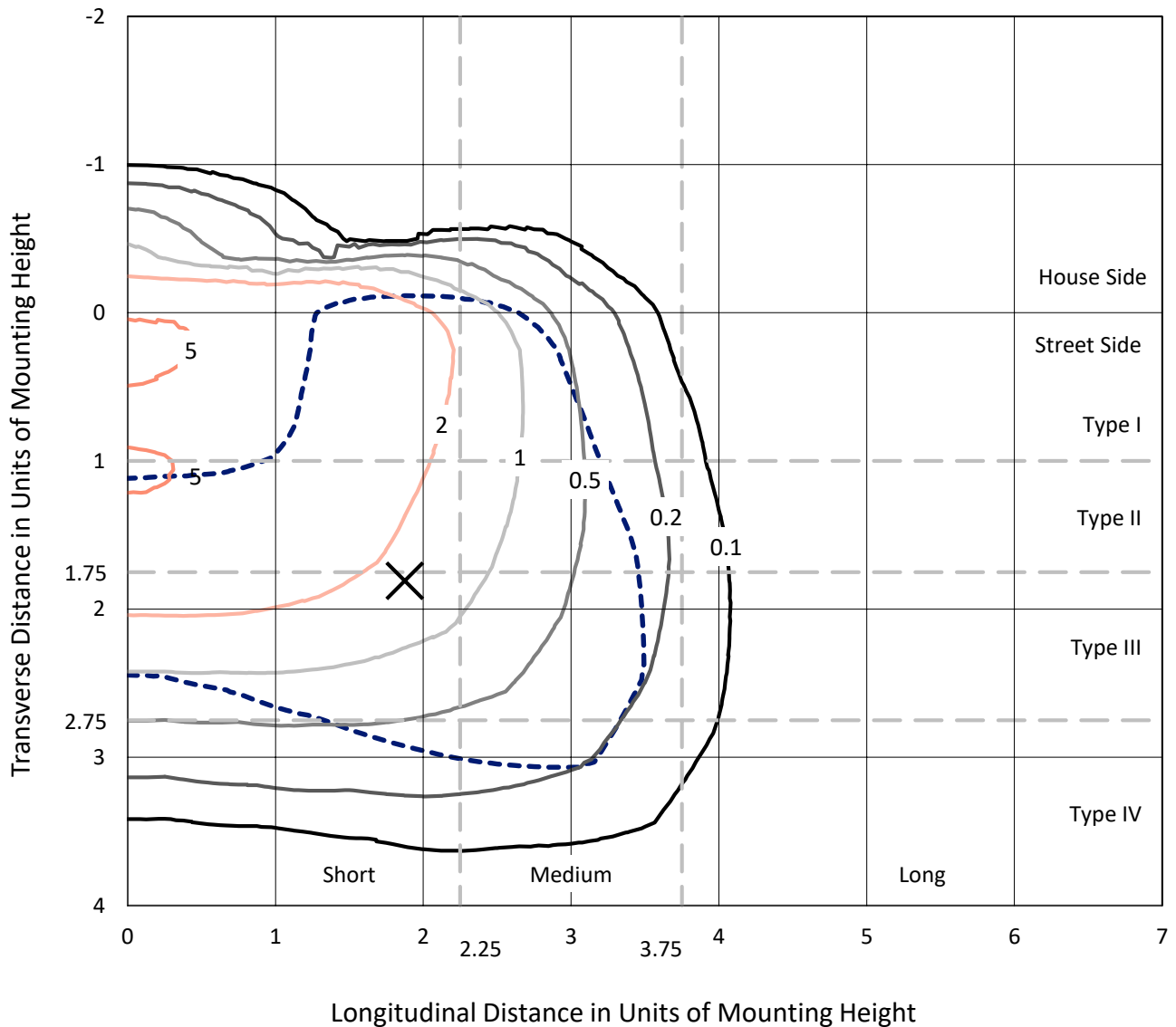
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

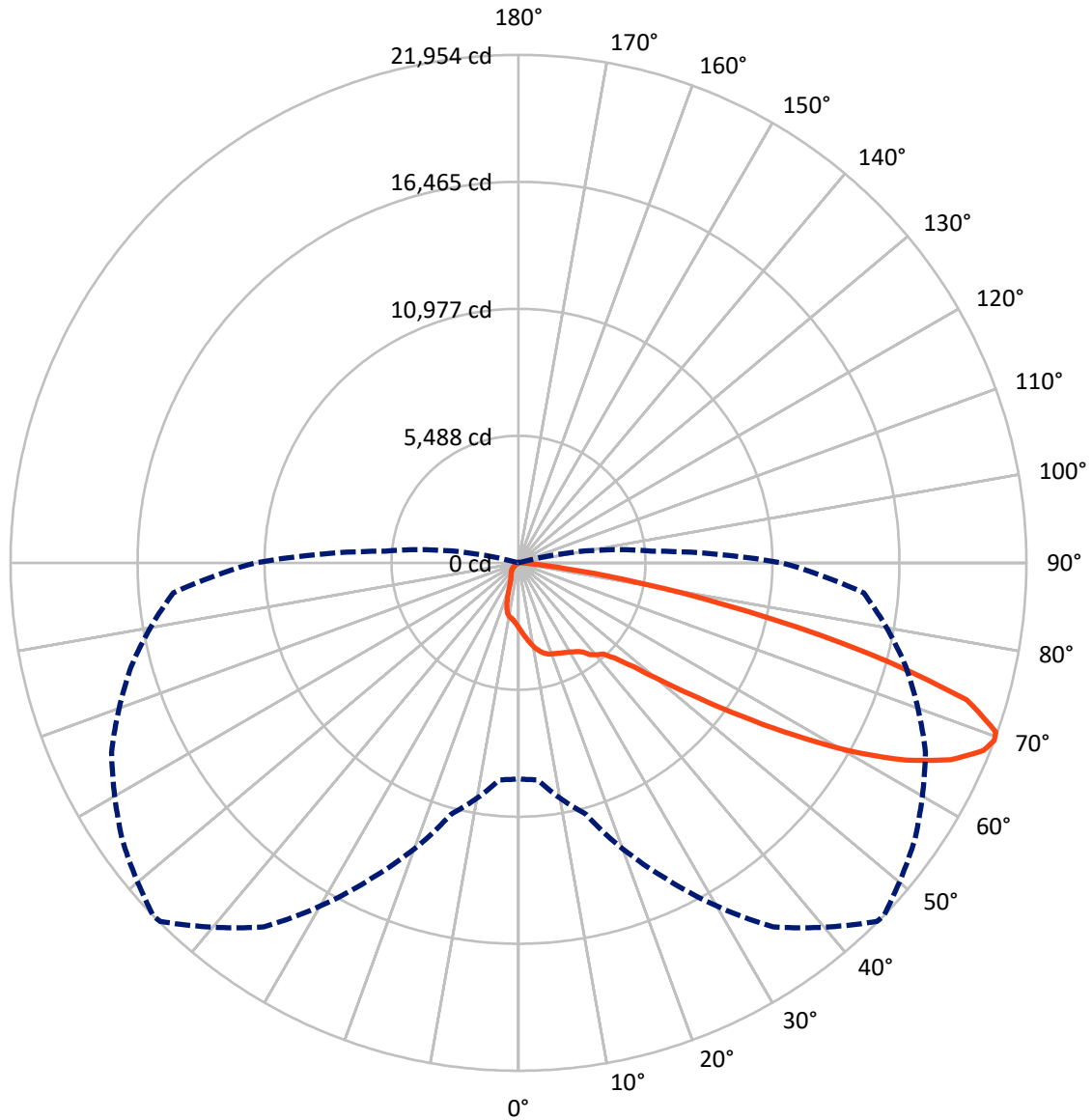
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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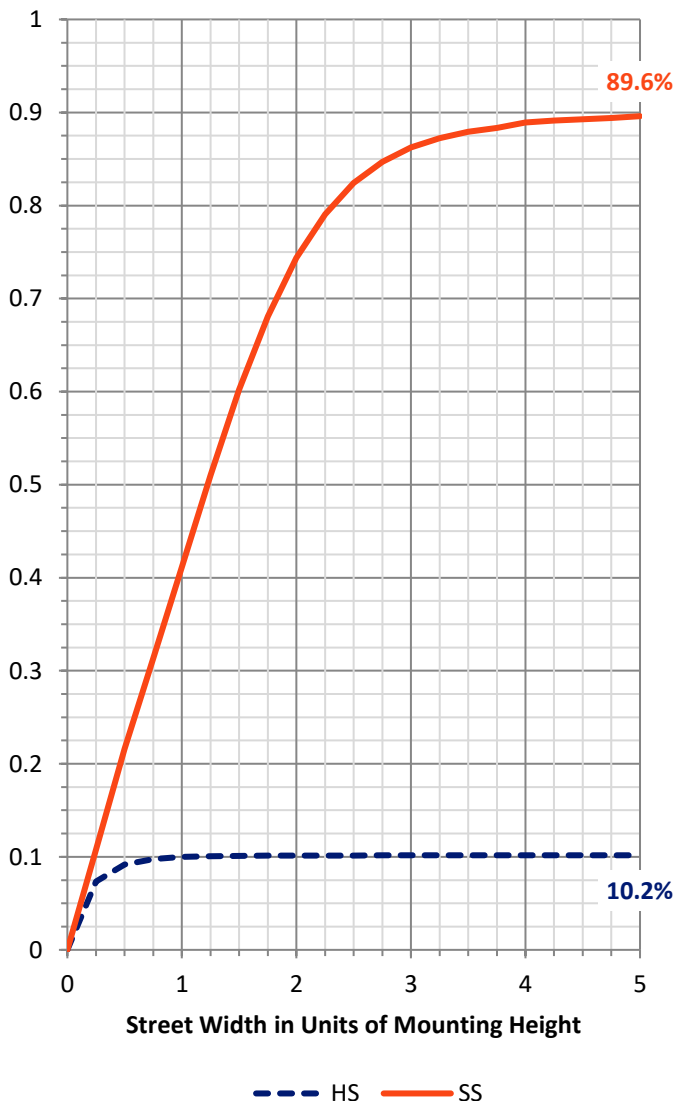
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2884.5	0.0	2884.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25222.5	0.0	25222.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	28107.0	0.0	28107.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.0
10°-20°	850.4	3.0
20°-30°	1337.4	4.8
30°-40°	1917.8	6.8
40°-50°	3314.7	11.8
50°-60°	6548.5	23.3
60°-70°	9152.2	32.6
70°-80°	4421.5	15.7
80°-90°	284.2	1.0
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°	28107.0	100.0
0°-180°	28107.0	100.0

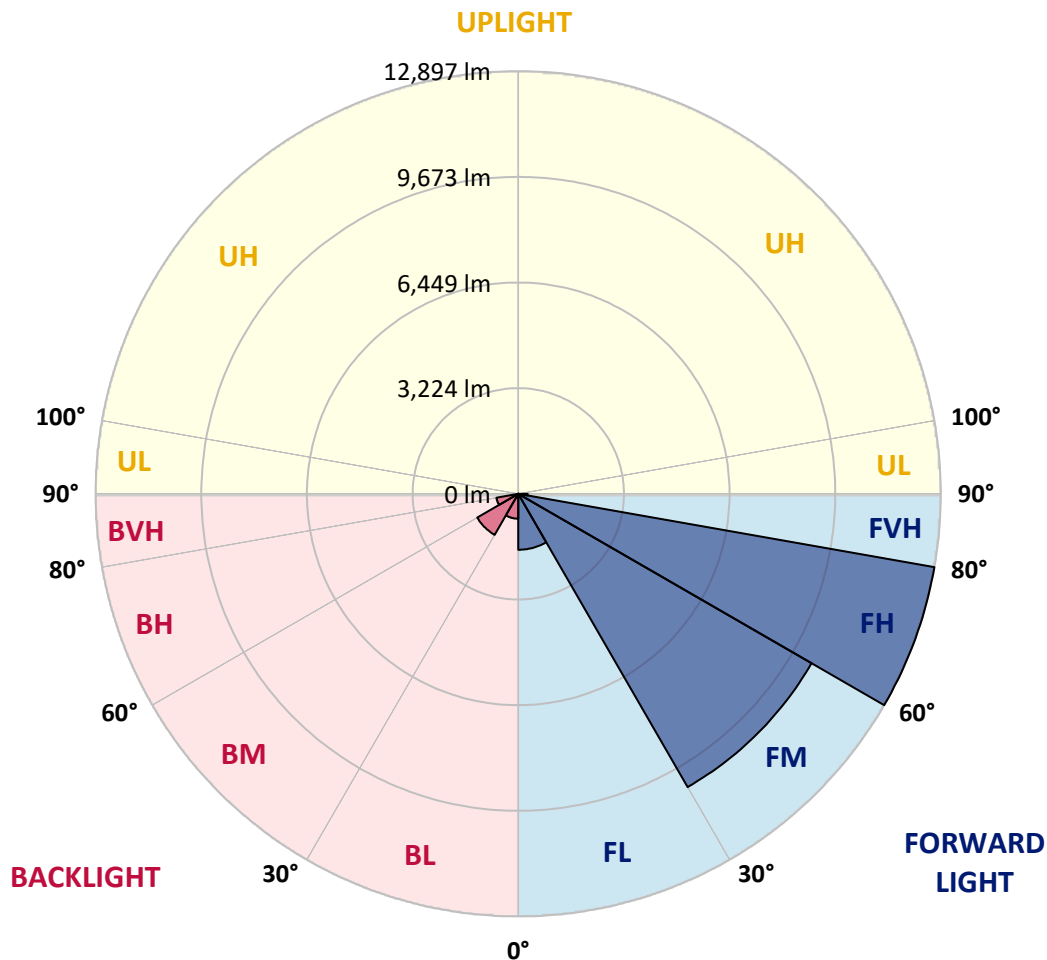


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.8	6.1			
FM (30°-60°)	10335.6	36.8			
FH (60°-80°)	12897.3	45.9			G5
FVH (80°-90°)	281.8	1.0			G3/500
BL (0°-30°)	760.3	2.7	B2/1000		
BM (30°-60°)	1445.5	5.1	B2/2500		
BH (60°-80°)	676.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	3128.5	3124.6	3106.1	3098.2	3053.4	3027.1	3016.5	2983.6	2936.1	2888.7	2836.0
5°	3484.4	3483.0	3448.8	3415.8	3331.5	3252.4	3237.9	3161.5	3054.7	2954.6	2854.4
7.5°	3848.1	3831.0	3796.7	3733.4	3610.9	3484.4	3472.5	3364.4	3212.9	3067.9	2924.3
10°	4156.5	4145.9	4101.1	4004.9	3861.3	3717.6	3703.1	3570.0	3398.7	3220.8	3037.6
12.5°	4396.3	4388.4	4329.1	4209.2	4056.3	3907.4	3887.6	3769.0	3585.8	3386.8	3170.7
15°	4542.6	4538.6	4466.1	4338.3	4188.1	4058.9	4041.8	3937.7	3767.7	3559.5	3315.7
17.5°	4576.8	4578.2	4503.0	4373.9	4250.0	4157.8	4144.6	4065.5	3923.2	3716.3	3460.6
20°	4500.4	4516.2	4449.0	4337.0	4260.6	4211.8	4201.3	4153.8	4033.9	3838.9	3576.6
22.5°	4392.3	4400.3	4354.1	4279.0	4247.4	4256.6	4251.3	4225.0	4123.5	3944.3	3691.3
25°	4326.5	4326.5	4298.8	4235.5	4256.6	4313.3	4314.6	4309.3	4228.9	4073.4	3831.0
27.5°	4323.8	4315.9	4284.3	4236.8	4294.8	4381.8	4387.1	4422.7	4372.6	4230.3	4004.9
30°	4429.2	4420.0	4352.8	4290.9	4364.7	4458.2	4471.4	4549.2	4524.1	4400.3	4198.6
32.5°	4675.7	4642.7	4493.8	4392.3	4447.7	4559.7	4576.8	4700.7	4740.3	4609.8	4385.8
35°	5013.0	4908.9	4694.1	4584.8	4590.0	4707.3	4723.1	4905.0	5022.3	4802.2	4530.7
37.5°	5478.2	5426.9	5077.6	4785.1	4808.8	4986.7	5032.8	5230.5	5197.5	4907.6	4695.5
40°	6498.3	6417.9	6046.2	5346.5	5018.3	5213.4	5227.9	5333.3	5335.9	5146.2	5038.1
42.5°	7887.3	7854.3	7462.9	6365.1	5430.8	5364.9	5391.3	5569.2	5768.2	5649.6	5644.3
45°	9425.2	9408.0	8992.9	7717.2	6265.0	5861.7	5894.7	6133.2	6514.1	6540.4	6707.8
47.5°	10662.6	10654.7	10416.2	9226.2	7542.0	6703.8	6714.4	6967.4	7636.9	7967.6	8235.2
50°	11790.7	11828.9	11640.4	10859.0	9281.5	8023.0	7997.9	8166.6	9242.0	9783.6	10115.7
52.5°	13358.9	13412.9	12884.5	12382.4	11106.7	9659.7	9640.0	9816.6	11171.3	11577.2	11636.5
55°	14744.0	14651.7	14234.0	14089.0	13332.6	11681.3	11676.0	11831.5	13037.4	13210.0	13319.4
57.5°	15355.4	15319.8	15521.5	15853.6	15663.8	14070.5	14058.7	13940.1	14707.1	14725.5	15061.6
60°	15741.6	15785.0	16403.1	17427.1	17900.2	16641.6	16565.2	15841.7	16301.6	16260.8	16620.6
62.5°	15451.6	15537.3	16649.5	18356.1	19573.8	18885.9	18777.9	17583.9	17664.3	17523.3	17858.0
65°	13912.4	14045.5	15868.1	18180.9	20404.1	20640.0	20530.6	19121.8	18746.2	18514.3	18328.5
67.5°	11296.5	11375.6	13278.5	16656.1	20029.8	21686.3	21663.9	20470.0	19563.3	18346.9	16905.2
69°	9335.6	9413.3	11245.1	15051.0	19206.1	21910.3	21953.8	20902.2	19407.8	17329.5	14978.5
70°	7907.0	7990.0	9696.6	13675.2	18250.7	21806.2	21884.0	20861.3	18962.3	16151.4	13287.7
72.5°	4147.2	4218.4	5969.8	9421.2	14878.4	20023.2	20259.1	19098.1	16073.7	11730.1	7856.9
75°	1303.3	1344.2	2331.3	4924.8	10186.9	15568.9	15623.0	14981.2	11413.8	6452.1	3272.2
77.5°	496.8	485.0	776.2	1814.7	5150.1	9803.4	10134.2	9361.9	5989.6	2281.2	755.1
80°	267.5	268.8	403.3	751.2	2203.4	5038.1	5317.5	4537.3	2128.3	711.6	174.0
82.5°	116.0	121.2	226.7	398.0	1012.1	1858.1	1997.8	1663.1	813.1	478.4	64.6
85°	25.0	27.7	109.4	216.1	412.5	521.9	546.9	539.0	517.9	371.6	25.0
87.5°	0.0	0.0	48.8	77.8	104.1	118.6	104.1	135.7	286.0	250.4	13.2
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°	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2
2.5°	2818.9	2795.1	2754.3	2709.5	2677.8	2644.9	2618.5	2606.7	2593.5	2584.3	2596.1
5°	2813.6	2767.5	2688.4	2612.0	2556.6	2511.8	2474.9	2460.4	2445.9	2435.4	2434.0
7.5°	2859.7	2795.1	2673.9	2561.9	2476.2	2415.6	2365.5	2344.4	2327.3	2319.4	2312.8
10°	2948.0	2865.0	2702.9	2556.6	2445.9	2343.1	2235.1	2152.0	2098.0	2073.0	2063.7
12.5°	3062.7	2958.5	2758.2	2584.3	2423.5	2225.8	1996.5	1798.8	1671.0	1628.8	1603.8
15°	3197.1	3067.9	2830.7	2619.9	2341.8	1980.7	1591.9	1333.7	1215.0	1191.3	1165.0
17.5°	3326.2	3183.9	2917.7	2626.4	2162.6	1582.7	1166.3	991.0	944.9	960.7	964.7
20°	3439.6	3298.5	3003.3	2568.5	1837.1	1187.4	902.7	859.2	876.4	906.7	911.9
22.5°	3554.2	3409.2	3082.4	2415.6	1420.6	901.4	813.1	823.6	840.8	871.1	876.4
25°	3693.9	3543.7	3156.2	2134.9	1066.1	767.0	772.3	788.1	805.2	832.9	835.5
27.5°	3854.7	3713.7	3205.0	1769.9	790.7	705.0	722.2	745.9	763.0	789.4	794.7
30°	4068.2	3937.7	3220.8	1391.6	662.9	649.7	657.6	686.6	711.6	735.4	739.3
32.5°	4268.5	4159.1	3168.1	1050.3	614.1	598.3	598.3	615.4	644.4	666.8	672.1
35°	4453.0	4381.8	2999.4	768.3	577.2	550.9	537.7	537.7	556.1	574.6	579.8
37.5°	4696.8	4694.1	2726.6	612.8	541.6	511.3	483.6	462.6	456.0	459.9	462.6
40°	5114.5	5118.5	2370.8	549.5	511.3	470.5	428.3	390.1	354.5	342.6	341.3
42.5°	5766.9	5707.5	1997.8	519.2	485.0	428.3	365.0	313.6	258.3	241.2	239.8
45°	6802.7	6450.8	1602.5	491.6	457.3	380.9	301.8	231.9	187.1	174.0	174.0
47.5°	8311.6	7427.3	1241.4	461.2	420.4	326.8	228.0	167.4	137.1	130.5	131.8
50°	9871.9	8384.1	951.5	423.0	375.6	270.2	168.7	121.2	104.1	104.1	105.4
52.5°	11255.6	9085.2	741.9	382.2	320.2	212.2	127.8	94.9	87.0	85.7	87.0
55°	12551.1	9537.2	568.0	334.7	254.3	158.1	97.5	77.8	72.5	69.8	68.5
57.5°	13800.4	9761.2	425.7	270.2	184.5	114.7	77.8	65.9	60.6	56.7	55.3
60°	14631.9	9579.4	292.6	199.0	127.8	83.0	64.6	56.7	50.1	46.1	44.8
62.5°	15101.1	9082.5	188.5	143.6	90.9	61.9	51.4	47.4	38.2	34.3	34.3
65°	14911.3	8262.8	131.8	102.8	65.9	46.1	38.2	38.2	27.7	22.4	21.1
67.5°	13213.9	6980.6	100.2	76.4	47.4	34.3	29.0	32.9	17.1	10.5	10.5
69°	11369.0	5785.3	85.7	63.3	39.5	27.7	25.0	30.3	11.9	7.9	6.6
70°	9881.1	4990.6	77.8	55.3	32.9	23.7	22.4	29.0	11.9	6.6	5.3
72.5°	5911.8	2783.3	59.3	39.5	21.1	18.4	18.4	32.9	11.9	6.6	5.3
75°	2389.2	980.5	43.5	27.7	15.8	15.8	22.4	42.2	10.5	5.3	4.0
77.5°	541.6	214.8	25.0	17.1	10.5	15.8	26.4	32.9	6.6	2.6	0.0
80°	131.8	52.7	15.8	10.5	6.6	11.9	19.8	18.4	1.3	0.0	0.0
82.5°	43.5	18.4	6.6	5.3	1.3	4.0	9.2	5.3	0.0	0.0	0.0
85°	18.4	10.5	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.9	4.0	0.0	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)