

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: P458958

Luminaire Tested: **GLAN-SA4D-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23450 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

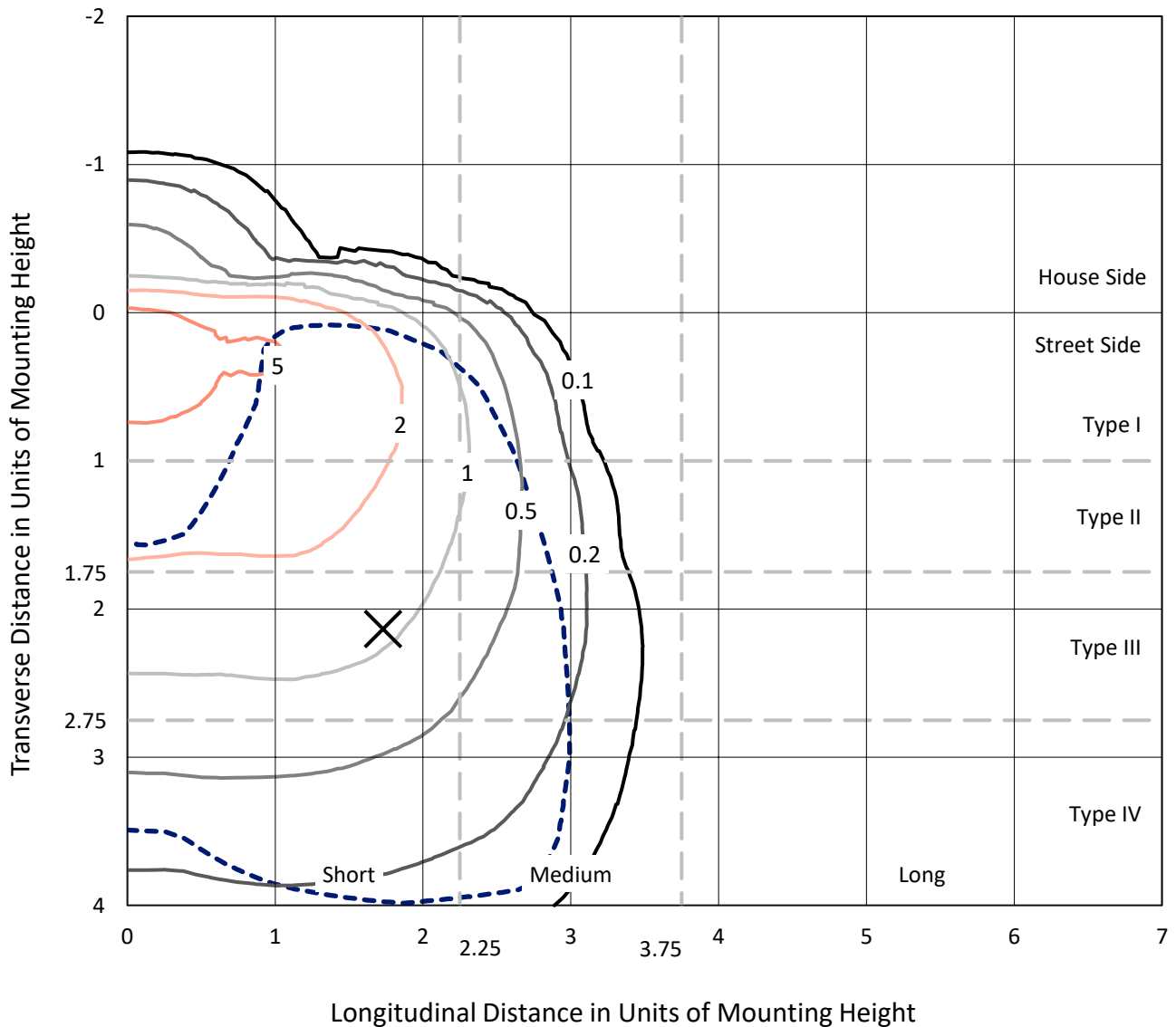
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

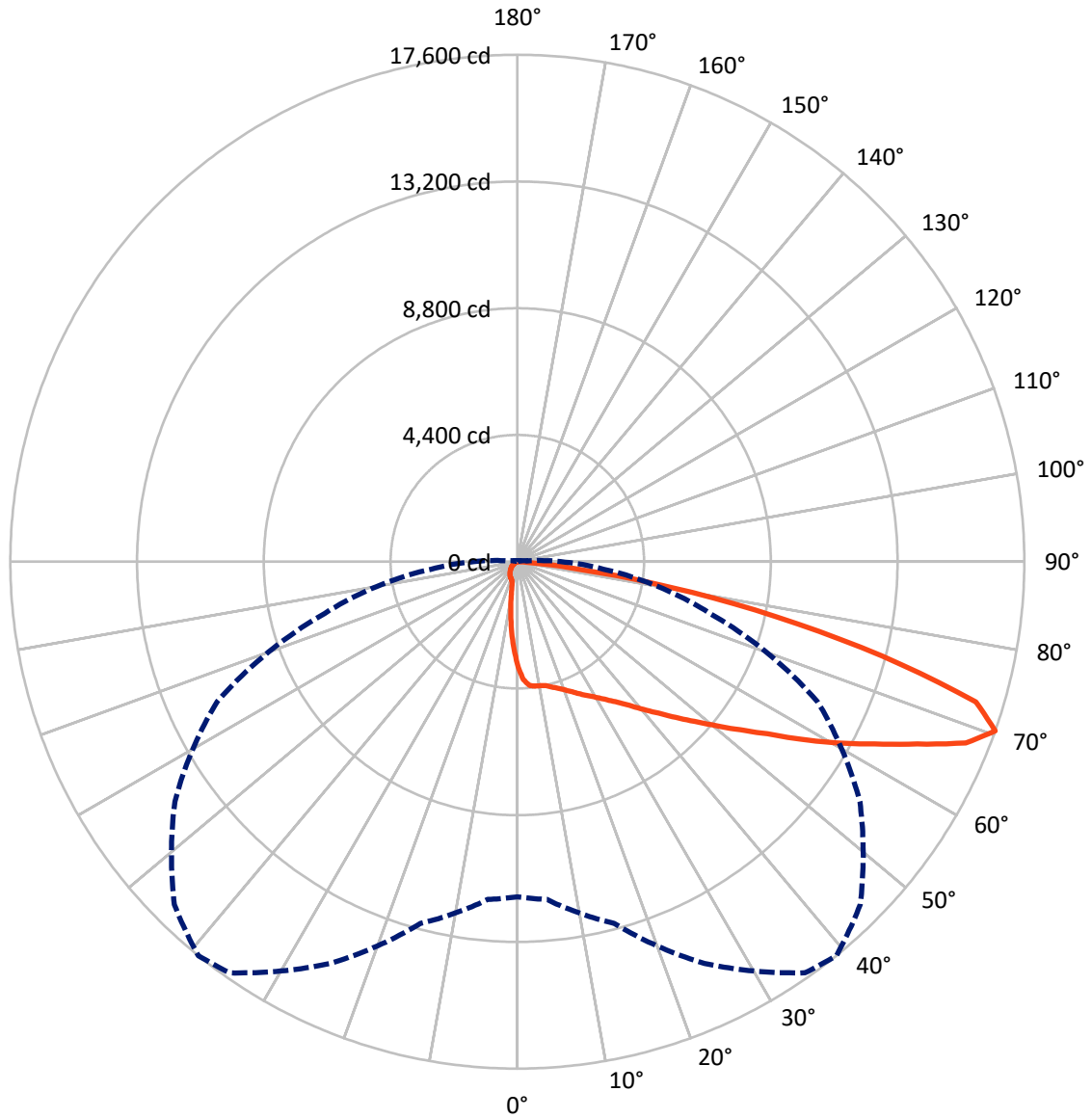
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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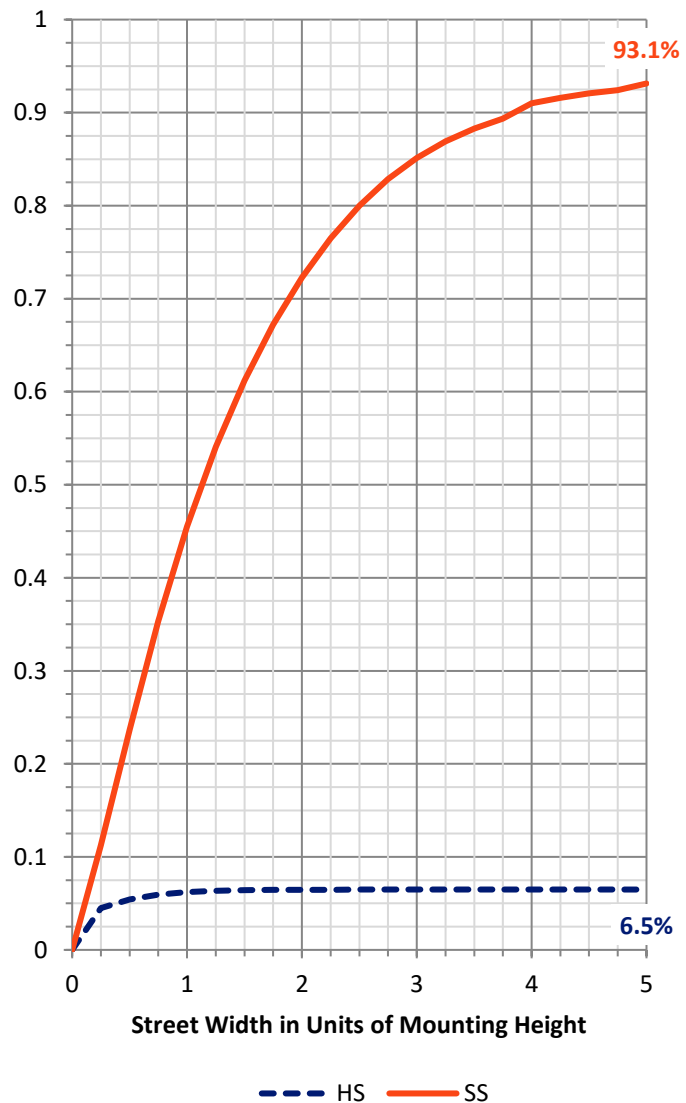
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.1	0.0	1529.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	21920.9	0.0	21920.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	23450.0	0.0	23450.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.3
10°-20°	811.0	3.5
20°-30°	1358.7	5.8
30°-40°	2107.2	9.0
40°-50°	3339.2	14.2
50°-60°	4894.8	20.9
60°-70°	6274.0	26.8
70°-80°	3942.4	16.8
80°-90°	410.7	1.8
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°	23450.0	100.0
0°-180°	23450.0	100.0



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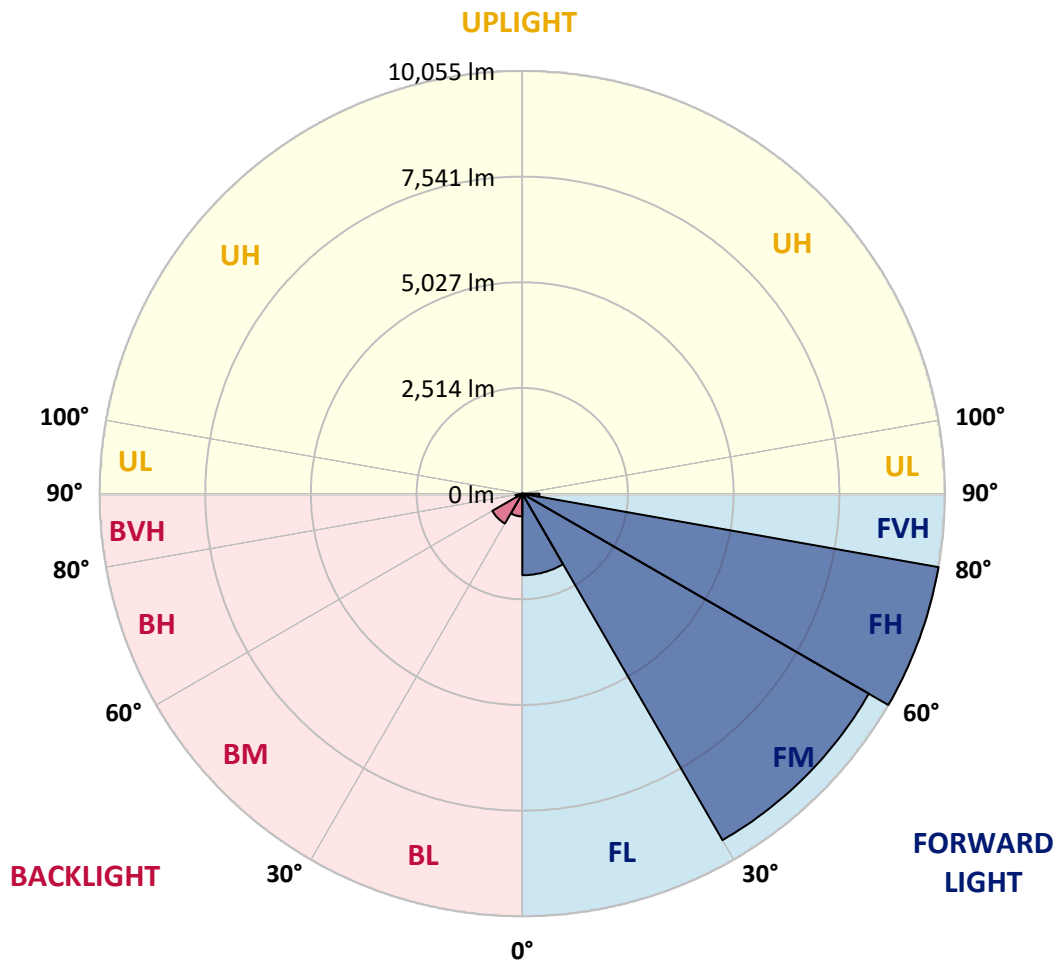
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.4	8.3			
FM (30°-60°)	9518.3	40.6			
FH (60°-80°)	10054.6	42.9			G4/12000
FVH (80°-90°)	407.7	1.7			G3/500
BL (0°-30°)	541.4	2.3	B2/1000		
BM (30°-60°)	822.9	3.5	B1/1000		
BH (60°-80°)	161.7	0.7	B1/500		G1/500
BVH (80°-90°)	3.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0
2.5°	4227.9	4213.7	4194.8	4172.7	4109.7	4098.7	4060.8	3980.5	3884.3	3805.6	3696.8
5°	4428.0	4435.9	4421.7	4382.3	4336.6	4309.8	4262.5	4138.0	4013.6	3854.4	3676.3
7.5°	4473.7	4489.5	4472.1	4434.3	4390.2	4361.8	4324.0	4216.8	4071.9	3890.6	3646.4
10°	4469.0	4487.9	4476.8	4442.2	4405.9	4379.1	4338.2	4253.1	4136.5	3945.8	3655.9
12.5°	4461.1	4486.3	4484.7	4467.4	4437.4	4417.0	4391.8	4316.1	4207.4	4026.2	3707.9
15°	4439.0	4470.5	4498.9	4513.1	4514.7	4514.7	4483.1	4402.8	4298.8	4131.7	3775.6
17.5°	4448.5	4484.7	4555.6	4596.6	4625.0	4621.8	4588.7	4502.1	4387.0	4240.5	3846.5
20°	4506.8	4555.6	4654.9	4736.9	4765.2	4755.8	4711.6	4610.8	4480.0	4333.4	3915.9
22.5°	4650.2	4694.3	4818.8	4914.9	4935.4	4910.2	4847.2	4710.1	4591.9	4434.3	3999.4
25°	4864.5	4916.5	5031.5	5104.0	5104.0	5089.8	5001.6	4840.9	4717.9	4574.5	4108.1
27.5°	5124.5	5168.6	5282.1	5346.7	5308.9	5267.9	5179.6	4985.8	4867.6	4751.0	4238.9
30°	5387.7	5416.0	5535.8	5564.1	5524.7	5472.7	5378.2	5184.4	5080.4	4990.6	4428.0
32.5°	5636.6	5698.1	5797.4	5791.1	5737.5	5712.3	5625.6	5419.2	5360.9	5351.4	4692.7
35°	5885.6	5932.9	6021.1	6043.2	5995.9	5991.2	5928.2	5775.3	5776.9	5838.3	5105.6
37.5°	6099.9	6142.5	6246.5	6295.3	6304.8	6328.4	6303.2	6202.3	6345.7	6514.4	5652.4
40°	6279.6	6339.4	6471.8	6556.9	6654.6	6741.3	6746.0	6768.1	7056.4	7346.4	6366.2
42.5°	6419.8	6503.3	6695.6	6853.1	7076.9	7187.2	7275.5	7396.8	7882.1	8315.5	7207.7
45°	6602.6	6698.7	6938.2	7185.6	7535.5	7716.7	7839.6	8164.2	8852.8	9443.8	8071.2
47.5°	6905.1	6955.6	7199.8	7560.7	8020.8	8279.2	8518.8	9010.4	9894.4	10423.9	8789.8
50°	7294.4	7327.5	7511.8	8012.9	8608.6	8949.0	9385.5	9963.8	10975.4	11237.0	9196.4
52.5°	7724.6	7735.6	7874.3	8510.9	9267.3	9695.9	10184.4	10898.2	11856.3	11816.9	9465.8
55°	8224.1	8208.3	8326.5	9051.4	10047.3	10537.4	11106.2	11854.7	12620.6	12228.2	9620.3
57.5°	8796.1	8753.6	8868.6	9768.4	11046.3	11632.5	12210.9	12680.5	13213.1	12573.3	9694.3
60°	9394.9	9309.8	9446.9	10573.6	12223.5	12779.7	13260.3	13386.4	13837.1	12847.5	9566.7
62.5°	9872.4	9874.0	10129.2	11430.8	13433.7	13920.6	14175.9	14289.3	14374.4	12787.6	8895.4
65°	10617.7	10642.9	11051.1	12620.6	14834.6	15256.9	15431.8	15063.1	14398.1	12043.8	7886.9
67.5°	11386.7	11467.1	12214.0	14259.4	16452.9	16793.3	16567.9	15212.8	13755.1	10346.7	5980.2
70°	11637.3	11769.6	13000.3	15387.7	17423.6	17600.1	16837.4	14514.7	11498.6	6917.8	3009.8
72.5°	10663.4	10877.7	12548.1	14976.4	16804.3	16651.5	15064.6	12173.0	7310.1	2626.9	918.7
75°	7519.7	7614.3	10428.6	12423.6	13515.6	13082.3	11459.2	7847.5	3006.6	737.5	315.2
77.5°	3882.8	3837.1	6202.3	8243.0	9639.2	9190.1	7504.0	4062.4	1139.3	307.3	195.4
80°	2007.6	2040.7	2683.6	4319.3	5884.0	5414.4	4001.0	1883.1	606.7	170.2	149.7
82.5°	1125.1	1055.8	1542.7	1886.2	2751.3	2157.3	1534.8	1333.1	264.7	102.4	141.8
85°	204.9	214.3	846.2	1019.5	954.9	606.7	494.8	890.3	77.2	56.7	99.3
87.5°	3.2	3.2	163.9	293.1	185.9	85.1	156.0	127.6	15.8	22.1	17.3
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°	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0
2.5°	3641.7	3581.8	3469.9	3359.6	3219.4	3104.3	3027.1	2946.7	2864.8	2871.1	2890.0
5°	3578.6	3474.6	3254.0	3020.8	2797.0	2595.3	2396.8	2218.7	2146.2	2080.1	2083.2
7.5°	3515.6	3369.1	3046.0	2680.4	2341.6	1998.1	1749.1	1544.3	1435.6	1353.6	1330.0
10°	3487.2	3293.4	2855.3	2352.7	1872.0	1497.0	1177.1	1010.1	880.9	839.9	850.9
12.5°	3499.8	3255.6	2683.6	2056.4	1484.4	1043.2	819.4	734.3	706.0	701.2	698.1
15°	3523.5	3228.8	2515.0	1728.7	1090.5	775.3	688.6	672.9	669.7	666.6	668.1
17.5°	3555.0	3205.2	2335.3	1421.4	836.7	677.6	652.4	644.5	642.9	642.9	642.9
20°	3586.5	3178.4	2135.2	1147.2	698.1	639.8	624.0	619.3	617.7	617.7	616.1
22.5°	3622.8	3154.7	1931.9	901.4	642.9	613.0	598.8	595.7	594.1	592.5	592.5
25°	3674.8	3124.8	1716.0	737.5	608.3	587.8	573.6	570.4	568.9	562.6	564.1
27.5°	3744.1	3102.7	1493.9	636.6	576.7	556.3	546.8	542.1	538.9	534.2	535.8
30°	3838.6	3083.8	1257.5	581.5	540.5	523.2	513.7	510.6	507.4	502.7	502.7
32.5°	4002.5	3091.7	1008.5	537.3	507.4	486.9	477.5	474.3	471.2	466.4	466.4
35°	4248.4	3137.4	806.8	499.5	468.0	447.5	438.1	438.1	433.3	427.0	425.5
37.5°	4650.2	3254.0	647.7	463.3	430.2	411.3	400.3	397.1	392.4	382.9	381.3
40°	5124.5	3435.2	545.2	427.0	395.5	376.6	367.2	357.7	345.1	335.6	334.1
42.5°	5720.1	3621.2	472.7	390.8	362.4	345.1	334.1	318.3	299.4	286.8	285.2
45°	6341.0	3791.4	423.9	357.7	330.9	316.7	304.1	278.9	255.3	239.5	237.9
47.5°	6804.3	3822.9	384.5	326.2	304.1	289.9	272.6	241.1	209.6	195.4	190.7
50°	7023.3	3670.0	343.5	294.7	277.3	261.6	239.5	203.3	168.6	151.3	148.1
52.5°	7100.5	3405.3	310.4	266.3	250.6	231.6	204.9	163.9	132.4	115.0	113.5
55°	7069.0	3071.2	280.5	239.5	219.0	197.0	170.2	130.8	97.7	83.5	80.4
57.5°	6903.6	2645.8	250.6	212.7	187.5	165.5	135.5	97.7	66.2	53.6	52.0
60°	6457.6	2065.9	220.6	182.8	159.2	135.5	107.2	69.3	41.0	29.9	29.9
62.5°	5704.4	1533.3	192.2	152.9	133.9	108.7	75.6	44.1	22.1	15.8	14.2
65°	4766.8	1131.4	160.7	129.2	111.9	85.1	53.6	26.8	11.0	4.7	3.2
67.5°	3326.5	698.1	133.9	105.6	91.4	61.5	33.1	11.0	4.7	0.0	0.0
70°	1511.2	332.5	102.4	80.4	69.3	44.1	17.3	6.3	3.2	0.0	0.0
72.5°	469.6	174.9	72.5	58.3	47.3	28.4	9.5	4.7	3.2	0.0	0.0
75°	217.5	111.9	45.7	31.5	26.8	14.2	6.3	3.2	1.6	0.0	0.0
77.5°	162.3	86.7	26.8	17.3	14.2	9.5	4.7	3.2	1.6	0.0	0.0
80°	141.8	44.1	15.8	11.0	7.9	6.3	3.2	1.6	0.0	0.0	0.0
82.5°	127.6	22.1	9.5	6.3	4.7	3.2	1.6	1.6	0.0	0.0	0.0
85°	69.3	12.6	6.3	4.7	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.6	6.3	4.7	3.2	3.2	1.6	1.6	1.6	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)