

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: McGRAW-EDISON

Report Number: P651291

Luminaire Tested: **GALN-SA3D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19249.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

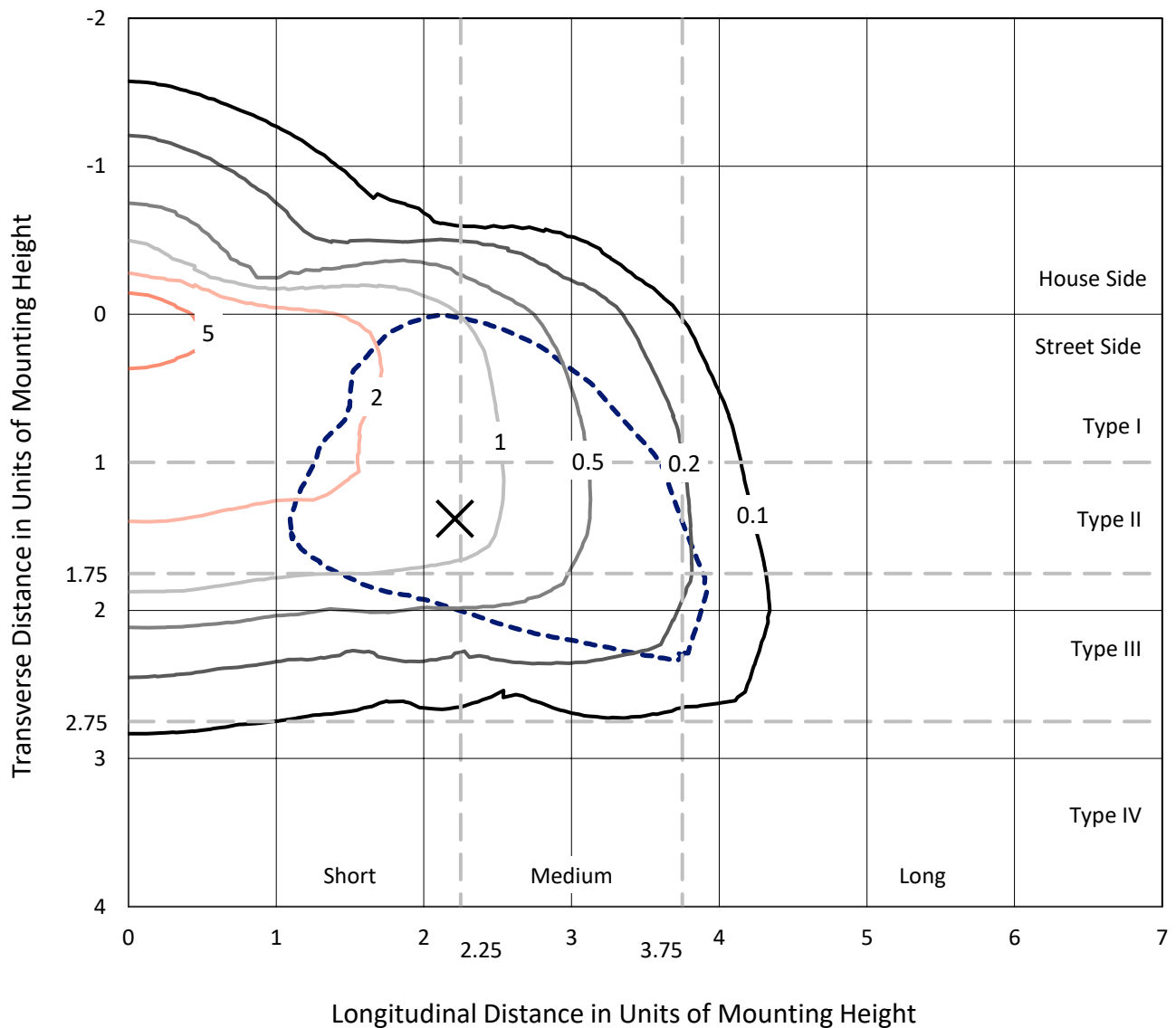
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

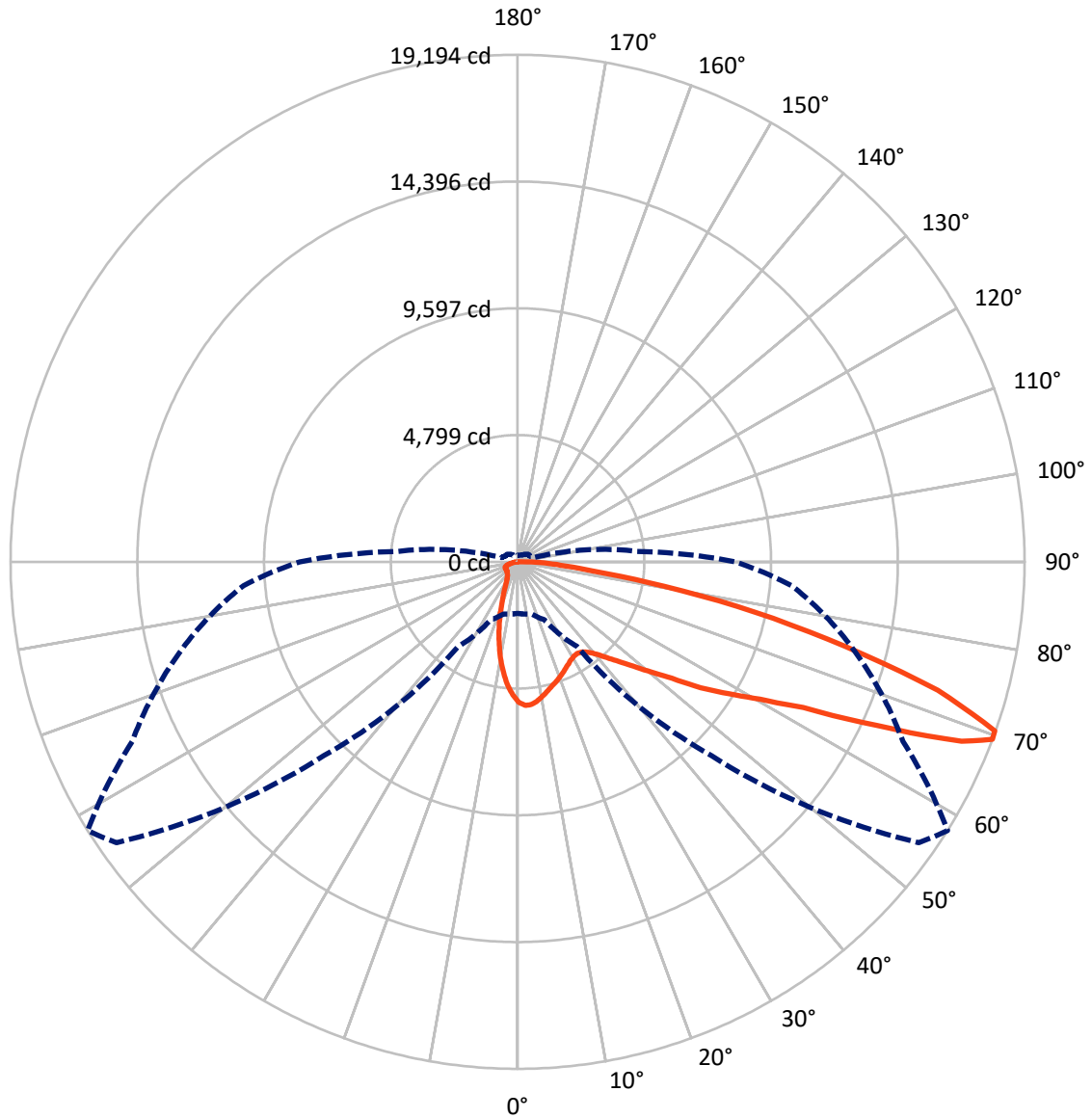
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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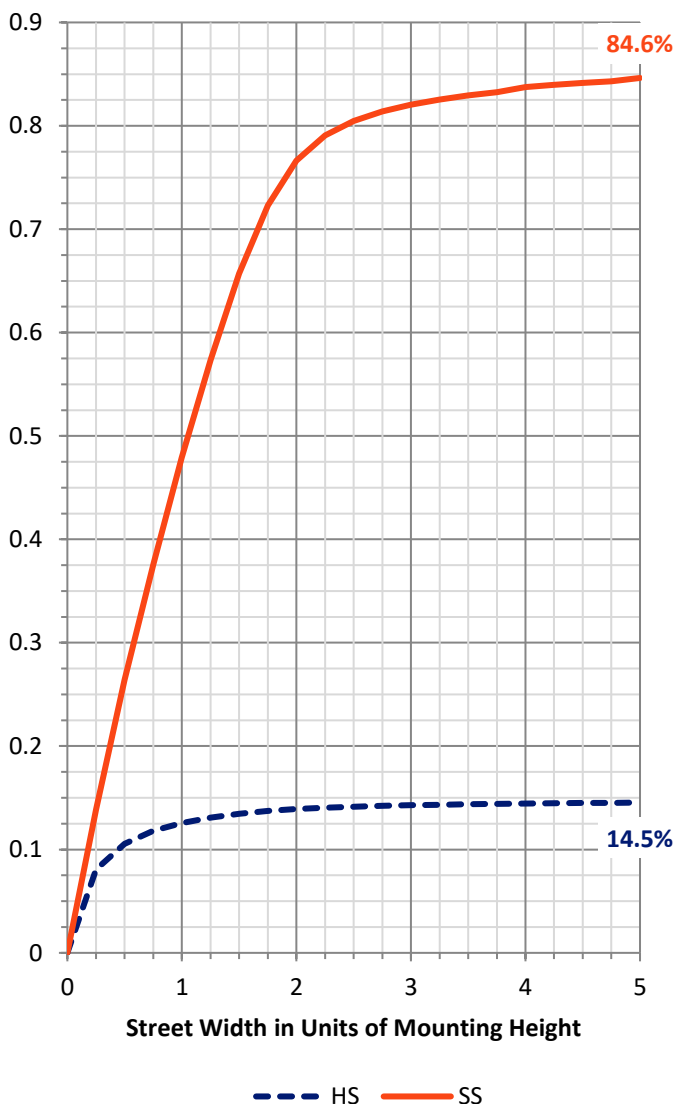
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2821.0	0.0	2821.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16428.6	0.0	16428.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	19249.6	0.0	19249.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	2.3
10°-20°	992.0	5.2
20°-30°	1281.6	6.7
30°-40°	1664.6	8.6
40°-50°	2420.1	12.6
50°-60°	3861.7	20.1
60°-70°	5158.7	26.8
70°-80°	2973.8	15.4
80°-90°	445.4	2.3
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°	19249.6	100.0
0°-180°	19249.6	100.0

Coefficient of Utilization



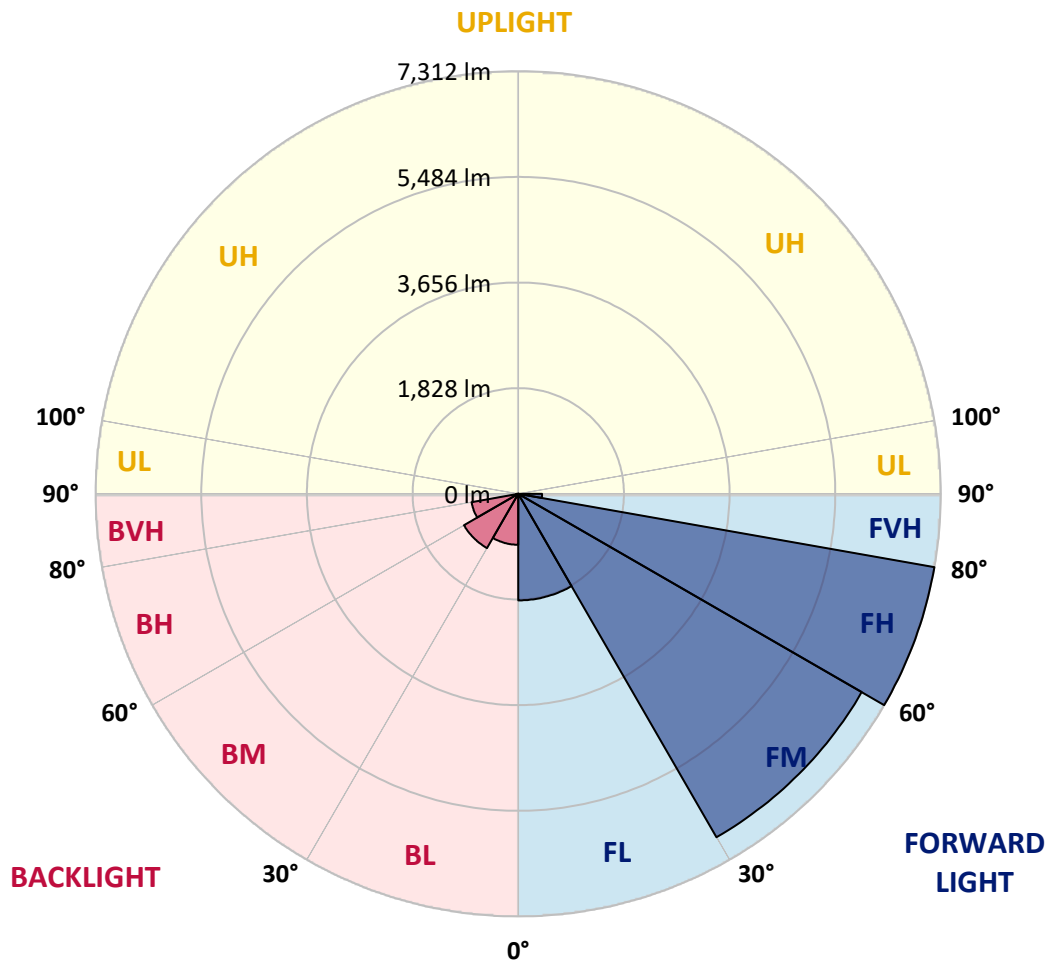
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.6	9.6			
FM (30°-60°)	6861.5	35.6			
FH (60°-80°)	7312.2	38.0			G3/7500
FVH (80°-90°)	411.3	2.1			G3/500
BL (0°-30°)	881.7	4.6	B2/1000		
BM (30°-60°)	1084.9	5.6	B2/2500		
BH (60°-80°)	820.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5
2.5°	5517.0	5532.0	5527.7	5522.3	5513.8	5490.1	5451.5	5445.1	5420.4	5367.8	5302.3
5°	5432.2	5445.1	5446.1	5453.6	5464.4	5460.1	5432.2	5429.0	5392.5	5321.6	5212.1
7.5°	5141.3	5158.4	5196.0	5237.9	5275.4	5310.9	5319.5	5324.9	5302.3	5220.7	5074.7
10°	4813.8	4831.0	4848.2	4910.4	5002.8	5090.8	5163.8	5173.5	5178.9	5103.7	4925.5
12.5°	4451.0	4486.4	4522.9	4615.2	4738.7	4877.2	5006.0	5026.4	5062.9	5006.0	4796.6
15°	4142.9	4179.3	4232.0	4314.7	4463.9	4663.5	4845.0	4878.2	4950.2	4921.2	4676.4
17.5°	3929.2	3942.1	3978.6	4073.0	4234.1	4444.5	4687.1	4753.8	4868.5	4861.1	4573.4
20°	3760.7	3776.8	3799.3	3857.3	4024.8	4247.0	4540.1	4625.9	4781.6	4807.4	4471.3
22.5°	3689.8	3701.7	3698.4	3729.5	3843.4	4066.7	4390.9	4492.9	4704.3	4770.9	4376.9
25°	3694.1	3704.9	3688.7	3681.2	3748.8	3907.7	4235.2	4365.0	4642.1	4746.2	4291.0
27.5°	3766.0	3773.6	3743.5	3713.4	3718.8	3809.0	4106.4	4250.2	4589.4	4756.9	4219.0
30°	3862.6	3876.6	3857.3	3820.8	3781.1	3785.3	4023.7	4165.4	4564.8	4794.5	4184.7
32.5°	3987.2	4000.0	3991.5	3962.5	3911.0	3854.1	4003.3	4134.3	4566.9	4870.7	4177.2
35°	4118.1	4143.9	4157.9	4155.7	4113.8	4015.1	4083.8	4192.2	4618.4	4998.5	4221.2
37.5°	4266.3	4287.8	4347.9	4386.6	4347.9	4233.0	4265.2	4340.4	4732.2	5183.2	4317.9
40°	4410.2	4442.4	4530.4	4650.6	4635.6	4534.7	4542.2	4591.6	4933.0	5458.0	4506.8
42.5°	4560.5	4599.1	4752.7	4930.9	4966.3	4887.9	4908.3	4952.3	5218.6	5839.1	4831.0
45°	4753.8	4799.8	4988.8	5211.1	5350.6	5302.3	5360.3	5381.7	5600.7	6335.1	5258.3
47.5°	5002.8	5056.4	5289.4	5566.4	5764.0	5807.9	5908.9	5896.0	6074.2	6922.3	5812.2
50°	5422.5	5452.6	5672.7	5955.0	6226.6	6425.2	6534.7	6555.2	6661.4	7493.4	6431.7
52.5°	5921.7	5948.6	6107.4	6354.3	6694.7	7115.5	7386.1	7319.5	7345.3	8189.1	7156.3
55°	6483.2	6528.3	6629.2	6793.4	7234.7	7854.2	8397.4	8413.4	8127.9	8854.7	7850.9
57.5°	6918.0	6994.3	7167.1	7401.1	7960.4	8675.4	9405.4	9416.2	9051.2	9565.4	8617.5
60°	6699.0	6789.1	7184.2	7754.3	8912.7	10108.7	10610.0	10548.7	9949.7	10374.8	9552.5
62.5°	5754.3	5770.4	6344.8	7235.8	9205.8	12026.0	12402.8	12144.0	11148.9	11401.2	10502.6
65°	3724.2	3829.4	4284.6	5533.1	8242.8	13089.9	15544.0	14946.1	12830.0	12566.0	11298.1
67.5°	2351.1	2324.3	2513.2	3159.5	5669.4	12152.7	18224.7	18130.2	15028.8	13301.3	11108.1
69°	1949.6	1979.6	2044.1	2421.9	3901.3	10375.9	18541.4	19194.1	16094.8	13243.4	10417.8
70°	1768.1	1782.1	1849.8	2147.1	3010.3	8690.5	18021.8	19165.1	16513.5	13000.8	9917.5
72.5°	1403.1	1402.0	1518.0	1786.4	2250.2	4960.9	14797.9	16639.1	16045.4	11871.4	8194.5
75°	1066.1	1083.2	1211.0	1511.5	2073.1	2710.7	10326.6	12814.0	12815.1	9376.5	5113.4
77.5°	768.7	779.4	928.6	1269.0	1952.8	2197.5	6878.3	9190.7	8640.0	4296.4	1607.2
80°	503.5	509.9	623.8	1004.8	1760.6	2073.1	4078.4	5625.4	4075.2	1140.1	531.4
82.5°	275.9	308.1	381.1	650.6	1412.8	1915.2	2478.8	2847.0	1528.8	507.8	276.9
85°	138.5	147.1	214.7	380.0	923.2	1584.6	1726.3	1632.9	789.0	252.3	143.9
87.5°	40.8	51.6	89.1	147.1	374.7	825.5	960.8	862.0	303.9	91.2	30.0
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°	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5	5319.5
2.5°	5275.4	5256.2	5170.2	5092.9	5022.1	4946.9	4883.6	4827.8	4833.1	4834.2	4777.3
5°	5155.2	5111.2	4948.0	4795.6	4666.8	4503.6	4364.0	4273.8	4228.7	4168.6	4190.1
7.5°	4992.0	4907.2	4680.7	4427.4	4190.1	3978.6	3748.8	3591.1	3490.2	3392.4	3405.3
10°	4823.5	4687.1	4357.6	4022.6	3715.6	3377.4	3084.4	2833.1	2646.3	2576.6	2530.4
12.5°	4650.6	4471.3	4052.7	3607.1	3183.1	2778.3	2362.9	2093.4	1887.3	1777.8	1791.8
15°	4492.9	4274.9	3734.9	3191.7	2641.0	2158.9	1744.6	1488.0	1344.1	1314.1	1331.2
17.5°	4346.8	4061.3	3437.5	2788.0	2145.0	1618.9	1310.8	1165.9	1107.9	1091.8	1090.7
20°	4196.5	3879.9	3103.6	2356.5	1671.5	1255.0	1075.7	1008.1	997.3	1003.8	1004.8
22.5°	4044.1	3655.5	2760.1	1928.1	1331.2	1026.4	940.4	922.2	930.7	945.8	948.0
25°	3903.4	3457.9	2429.5	1552.4	1062.9	901.8	859.9	859.9	879.3	901.8	902.9
27.5°	3787.5	3266.9	2099.9	1232.5	889.9	811.6	797.7	805.2	832.0	849.2	850.3
30°	3692.0	3088.7	1788.6	987.7	782.6	739.7	736.5	749.3	768.7	784.7	785.8
32.5°	3620.0	2931.9	1497.7	829.9	708.5	684.9	683.8	693.5	704.3	708.5	712.8
35°	3592.2	2802.0	1231.4	730.0	659.2	644.1	644.1	643.0	647.3	649.5	651.7
37.5°	3614.7	2702.1	1025.3	665.6	622.7	611.9	605.5	599.0	596.9	596.9	598.0
40°	3710.2	2649.6	871.7	623.8	596.9	580.8	569.0	561.5	554.0	556.1	558.3
42.5°	3913.1	2659.2	767.6	595.8	574.3	551.8	534.6	526.0	520.7	527.1	526.0
45°	4236.3	2755.8	701.1	576.5	551.8	522.8	506.7	498.1	498.1	507.8	511.0
47.5°	4688.2	2940.5	665.6	561.5	534.6	500.3	484.2	477.8	479.9	496.0	497.0
50°	5240.0	3261.5	659.2	554.0	526.0	484.2	465.9	459.5	464.8	482.1	484.2
52.5°	5848.7	3674.7	690.3	555.1	518.6	474.5	450.9	441.3	446.6	460.5	464.8
55°	6570.1	4192.2	770.8	559.3	507.8	469.1	440.2	418.6	425.1	434.8	435.9
57.5°	7306.6	4845.0	912.5	560.4	499.2	459.5	421.9	394.0	394.0	400.4	403.7
60°	8206.3	5555.6	1099.4	561.5	500.3	445.6	397.2	366.1	361.8	365.0	366.1
62.5°	9099.5	6150.4	1130.5	558.3	511.0	431.6	370.4	338.2	330.7	329.6	327.4
65°	9493.5	6039.8	926.4	543.2	522.8	423.0	348.9	311.3	298.5	294.2	294.2
67.5°	8851.4	5109.1	696.8	522.8	515.3	414.4	328.5	288.8	273.7	265.2	265.2
69°	8248.1	4544.3	625.9	508.9	496.0	400.4	315.6	276.9	258.7	249.1	245.8
70°	7782.2	4155.7	595.8	497.0	477.8	384.3	306.0	268.4	248.0	237.2	235.1
72.5°	6210.5	3260.4	521.8	452.0	406.9	323.1	271.6	241.5	222.2	210.4	207.2
75°	3579.2	1767.1	432.6	392.9	327.4	251.2	229.8	210.4	195.4	184.7	181.4
77.5°	1101.5	682.8	313.4	310.2	240.4	194.4	183.6	176.1	165.3	153.5	151.4
80°	463.8	347.8	212.6	209.3	160.0	135.2	132.0	130.9	126.7	117.0	113.8
82.5°	254.4	196.5	148.2	128.8	96.6	78.4	81.6	82.7	79.5	69.8	63.3
85°	124.6	107.4	71.9	57.9	44.0	27.9	26.8	32.2	30.0	21.4	23.6
87.5°	24.7	30.0	19.3	8.6	4.3	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)