

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: P383112

Luminaire Tested: **GLEON-SA4C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 21571.9 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

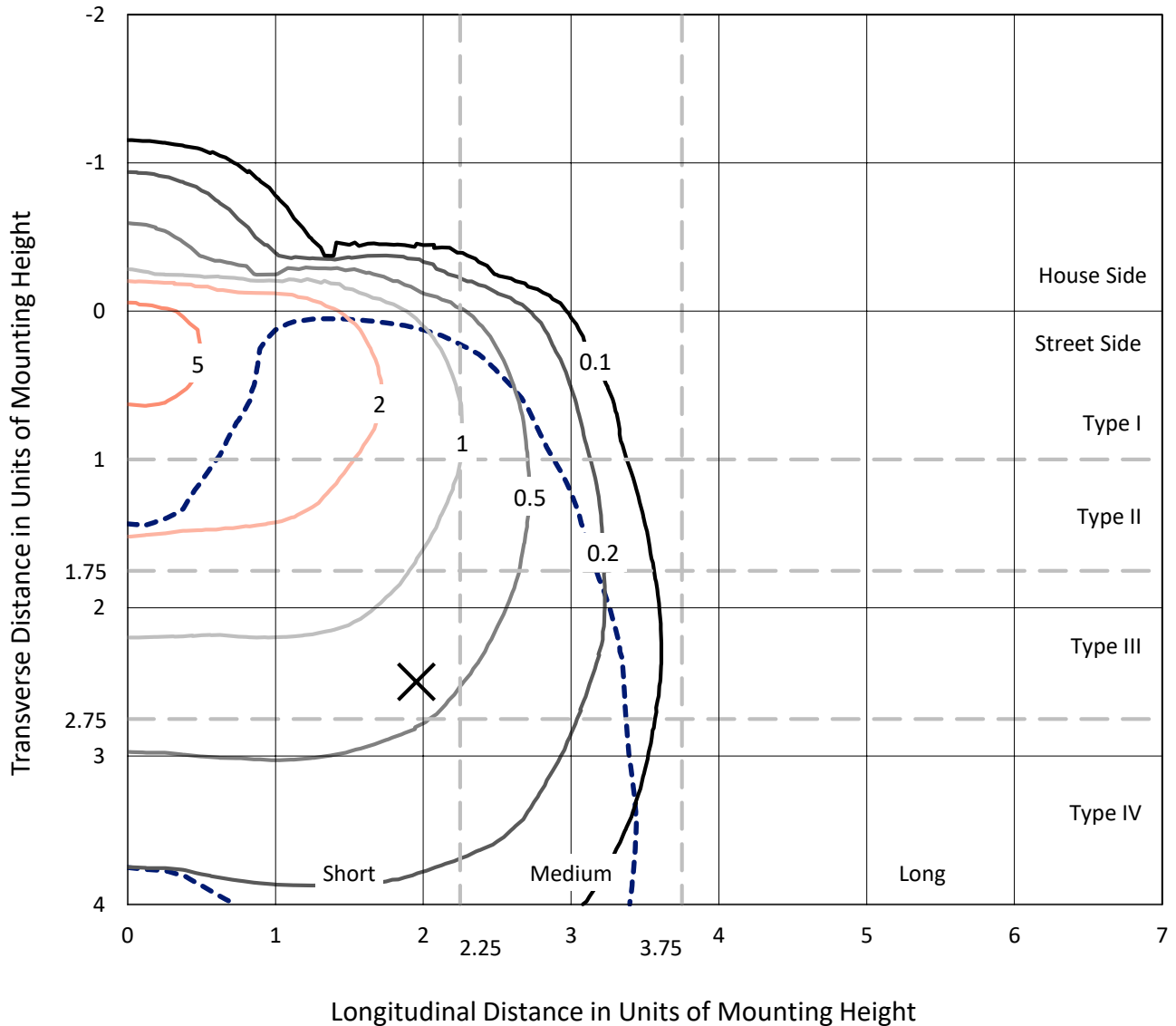
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

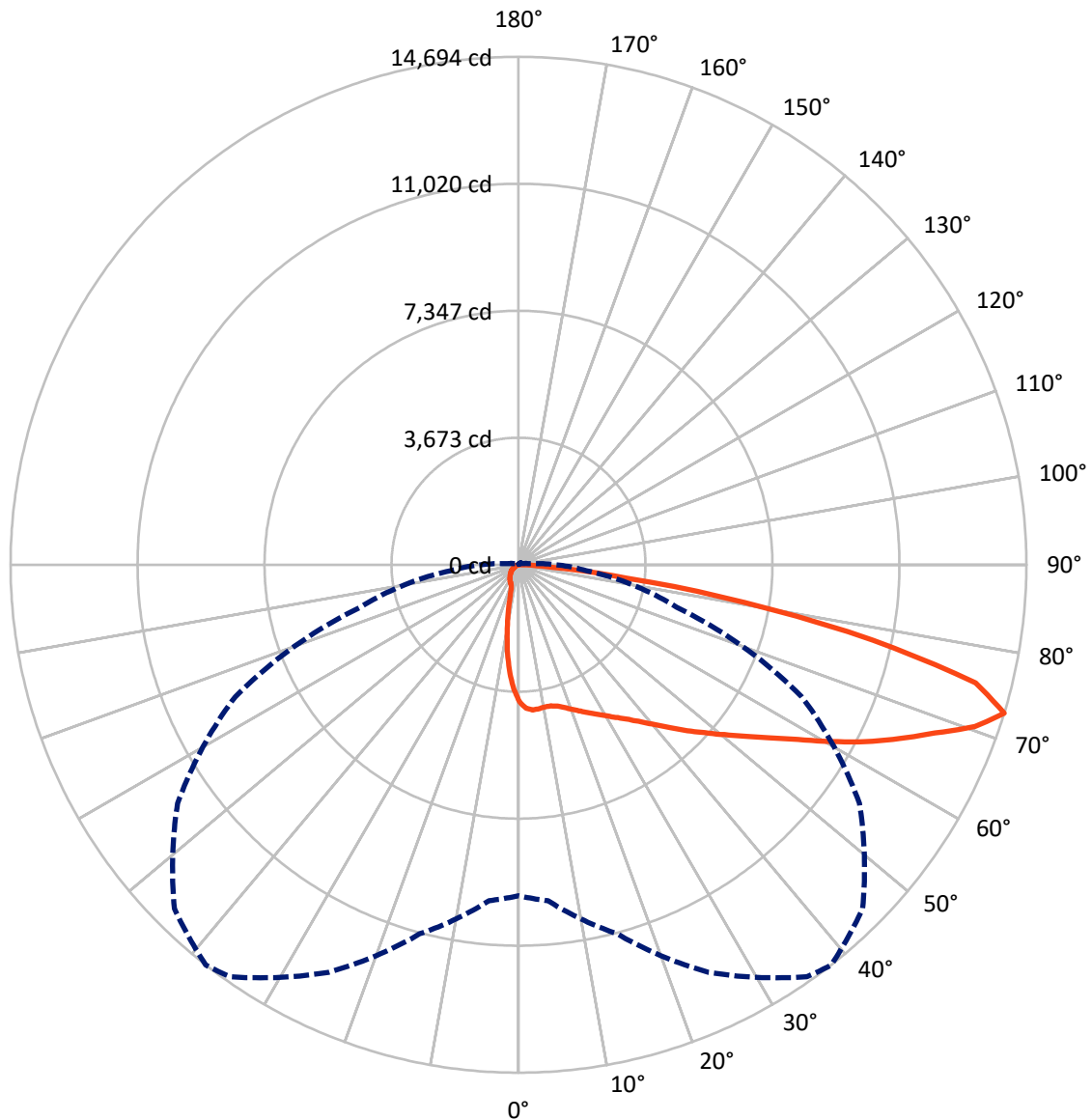
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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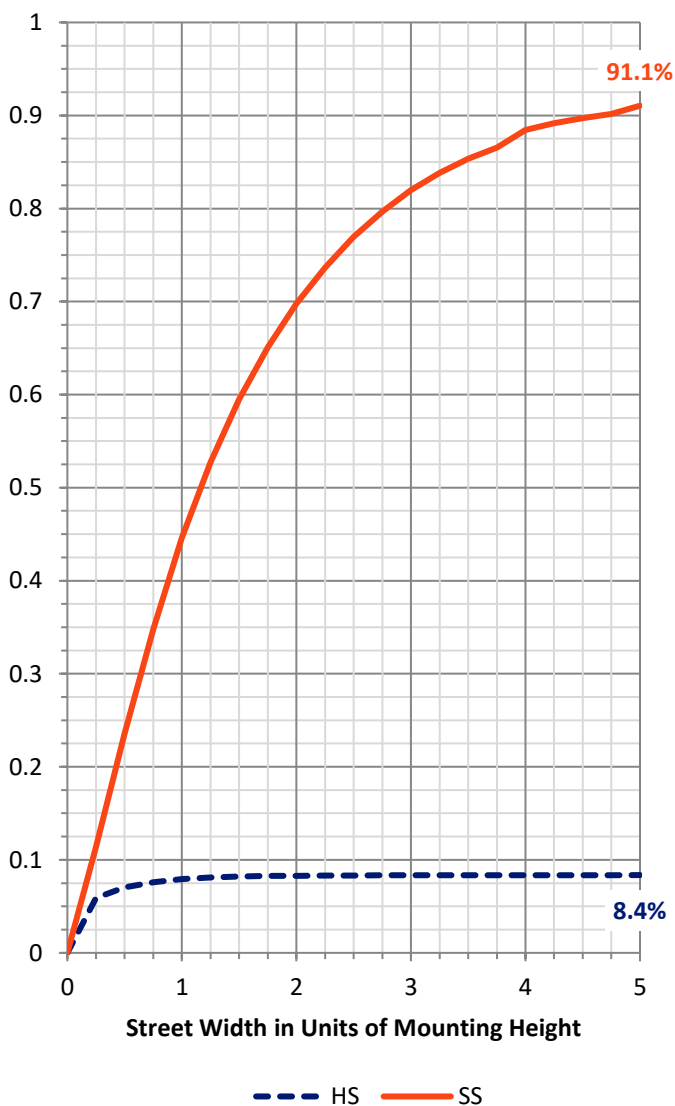
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1815.3	0.0	1815.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19756.5	0.0	19756.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	21571.9	0.0	21571.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	1.6
10°-20°	826.6	3.8
20°-30°	1314.8	6.1
30°-40°	1976.6	9.2
40°-50°	3015.4	14.0
50°-60°	4261.8	19.8
60°-70°	5345.8	24.8
70°-80°	3997.1	18.5
80°-90°	495.6	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°	21571.9	100.0
0°-180°	21571.9	100.0

Coefficient of Utilization

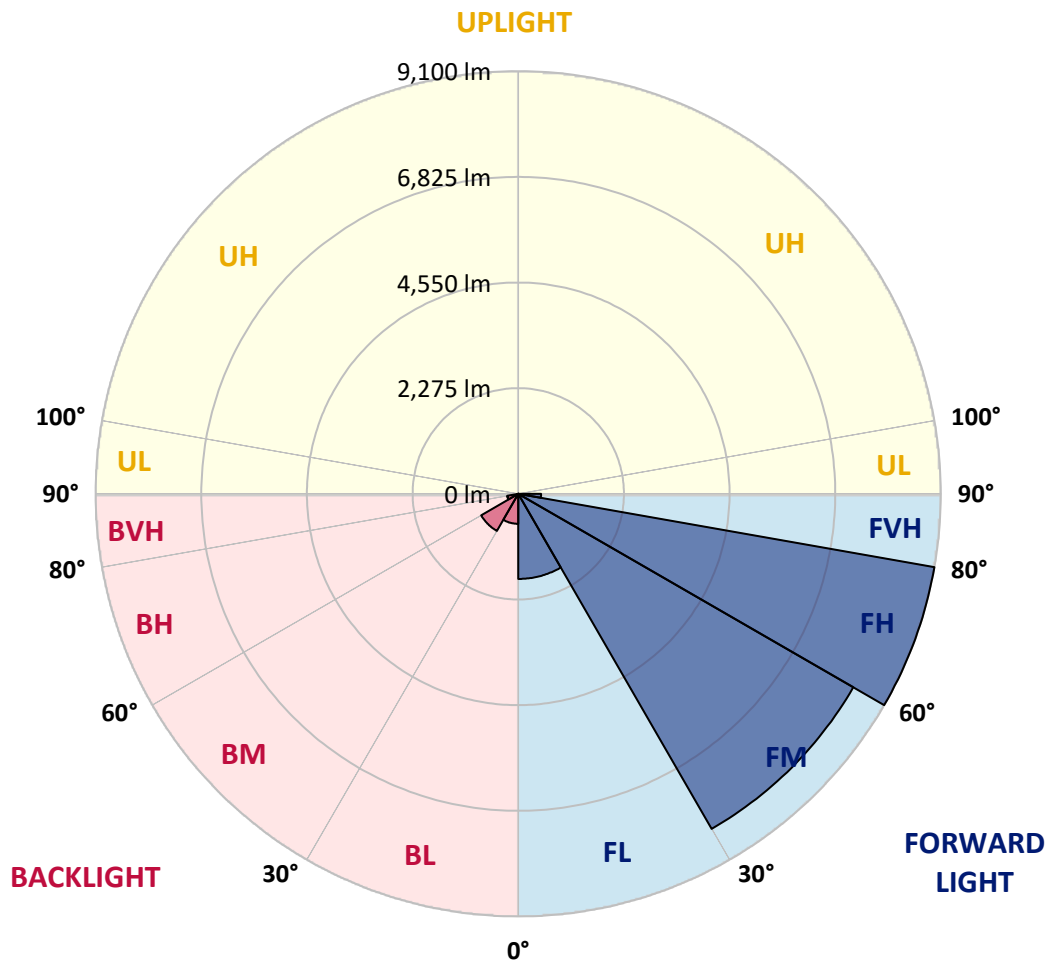


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1833.1	8.5			
FM (30°-60°)	8332.0	38.6			
FH (60°-80°)	9100.4	42.2			G4/12000
FVH (80°-90°)	491.0	2.3			G3/500
BL (0°-30°)	646.4	3.0	B2/1000		
BM (30°-60°)	921.9	4.3	B1/1000		
BH (60°-80°)	242.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0
2.5°	4210.7	4211.5	4201.7	4185.6	4164.9	4154.2	4136.4	4107.7	4077.2	4022.5	3963.4
5°	4296.7	4296.7	4284.1	4262.7	4229.5	4219.6	4185.6	4139.9	4077.2	3988.5	3889.0
7.5°	4287.7	4289.5	4272.4	4250.1	4216.9	4208.0	4166.8	4115.7	4037.8	3930.3	3803.0
10°	4241.1	4245.6	4232.2	4221.4	4190.9	4181.1	4142.6	4091.5	4013.6	3898.9	3752.8
12.5°	4193.6	4198.1	4202.6	4212.5	4193.6	4190.1	4159.6	4116.6	4042.3	3923.1	3758.2
15°	4163.2	4172.1	4204.4	4242.9	4247.4	4243.9	4224.1	4183.8	4108.5	3984.9	3796.8
17.5°	4163.2	4177.5	4244.7	4318.2	4344.2	4346.9	4329.8	4273.4	4183.8	4051.2	3832.6
20°	4198.1	4217.9	4322.7	4426.6	4469.6	4469.6	4436.4	4357.6	4252.8	4111.2	3856.8
22.5°	4287.7	4313.7	4445.4	4565.4	4611.2	4601.3	4556.5	4441.8	4324.4	4179.3	3887.3
25°	4464.3	4483.9	4621.0	4741.9	4769.7	4747.4	4690.9	4543.9	4415.8	4271.6	3942.8
27.5°	4691.7	4694.4	4836.0	4938.1	4921.1	4905.9	4835.1	4672.1	4547.5	4403.3	4038.6
30°	4941.7	4941.7	5066.2	5144.2	5092.2	5079.7	5008.9	4827.0	4716.0	4582.5	4174.8
32.5°	5183.6	5194.4	5295.6	5344.8	5286.6	5274.0	5205.1	5023.3	4939.9	4855.7	4387.1
35°	5417.4	5425.5	5521.4	5548.2	5492.7	5496.3	5447.0	5292.9	5261.6	5250.8	4707.0
37.5°	5644.1	5645.9	5743.5	5760.6	5732.7	5763.2	5767.8	5631.6	5689.8	5776.7	5157.6
40°	5851.1	5852.8	5949.6	5993.5	6041.0	6080.4	6115.3	6042.8	6235.4	6437.0	5694.3
42.5°	6016.8	6035.6	6158.4	6241.6	6367.0	6442.3	6537.3	6533.7	6884.9	7187.7	6342.9
45°	6162.8	6195.1	6366.2	6512.2	6727.3	6847.2	6996.0	7112.5	7616.0	8023.6	6999.6
47.5°	6355.4	6385.9	6581.2	6820.4	7107.1	7264.8	7511.2	7762.9	8419.5	8844.2	7641.0
50°	6626.8	6613.4	6806.1	7149.2	7517.4	7724.3	8075.5	8452.7	9216.9	9559.2	8018.2
52.5°	6916.3	6910.9	7053.3	7506.7	8001.2	8243.1	8707.2	9165.9	9979.3	10051.9	8191.1
55°	7274.6	7236.1	7356.2	7914.2	8575.5	8835.3	9381.7	9871.8	10586.7	10329.6	8278.0
57.5°	7650.0	7586.3	7701.0	8368.5	9223.2	9530.5	10128.9	10559.8	10990.8	10519.5	8277.1
60°	8038.0	7962.7	8098.8	8936.5	10027.6	10383.3	10938.8	11024.8	11368.0	10615.4	8216.2
62.5°	8362.2	8317.4	8519.9	9543.9	10926.2	11275.6	11550.7	11447.7	11686.0	10689.7	8073.7
65°	8705.3	8708.0	9035.0	10252.5	11881.2	12116.9	12140.2	11995.9	11952.0	10674.5	7591.7
67.5°	9169.4	9212.4	9758.1	11214.7	12810.3	12992.2	12990.3	12590.0	12146.4	10068.9	6523.0
70°	9660.3	9761.6	10591.2	12315.8	13824.4	14009.0	13914.1	12968.0	11436.9	8141.8	4616.5
72.5°	9577.9	9753.5	11054.4	13010.1	14552.8	14693.5	14076.2	12038.9	9039.6	4732.1	1965.6
75°	7389.3	7592.7	10136.1	12322.0	13788.6	13662.3	12094.5	9368.3	4939.9	1320.6	442.6
77.5°	3903.4	4011.8	6695.9	9387.1	10751.5	10487.3	8519.9	5197.0	1506.0	327.0	198.9
80°	2044.4	2069.5	2917.9	5326.0	6635.9	6637.6	5049.3	2282.8	620.9	167.5	133.5
82.5°	1094.8	1116.3	1541.8	2461.0	3476.9	3151.7	1933.3	1256.0	361.1	94.9	128.1
85°	263.3	267.9	874.4	1124.4	1367.1	976.5	574.3	1054.4	97.6	55.5	104.0
87.5°	101.3	103.0	324.3	486.5	348.5	225.8	268.8	393.3	12.6	21.5	16.1
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°	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0	3967.0
2.5°	3927.6	3904.3	3846.9	3774.4	3709.9	3663.3	3593.4	3547.7	3517.2	3516.4	3504.7
5°	3828.1	3780.7	3657.0	3510.1	3376.6	3256.6	3115.0	3003.0	2919.7	2906.2	2877.6
7.5°	3721.5	3643.6	3453.6	3224.3	3000.3	2772.8	2508.5	2344.5	2203.9	2136.7	2129.5
10°	3656.1	3546.8	3277.2	2945.6	2594.5	2224.5	1878.7	1639.4	1466.5	1417.3	1380.6
12.5°	3642.7	3498.4	3141.0	2684.1	2182.3	1693.3	1310.7	1056.3	918.3	874.4	862.7
15°	3656.1	3476.1	3026.3	2425.2	1764.9	1201.4	879.8	731.9	679.9	667.5	666.5
17.5°	3664.1	3449.1	2896.4	2137.6	1360.0	858.2	673.7	630.8	622.6	621.7	623.6
20°	3663.3	3408.0	2741.5	1816.9	1011.5	674.6	609.2	600.3	598.4	599.4	598.4
22.5°	3657.0	3359.5	2571.2	1486.3	764.1	602.9	581.5	576.1	575.1	575.1	575.1
25°	3668.6	3321.1	2383.9	1170.0	629.8	569.8	556.3	551.8	551.0	551.0	549.1
27.5°	3710.7	3299.5	2178.8	900.3	568.9	540.2	529.5	528.6	525.9	525.0	526.8
30°	3778.8	3299.5	1953.9	700.6	532.2	509.7	501.7	499.9	499.0	498.1	499.0
32.5°	3898.9	3324.6	1708.5	582.3	497.3	475.7	470.3	473.0	470.3	470.3	470.3
35°	4115.7	3399.9	1451.4	508.0	460.5	442.6	437.2	440.8	438.9	438.9	438.1
37.5°	4431.9	3539.7	1192.4	463.2	428.2	409.4	402.2	407.6	405.9	405.9	404.9
40°	4817.2	3743.1	946.1	429.2	396.8	377.2	370.9	373.6	369.1	369.1	370.9
42.5°	5292.9	4001.0	731.1	396.0	365.5	346.7	343.1	340.5	332.4	327.9	328.8
45°	5821.5	4269.8	569.8	363.8	335.9	320.7	315.3	308.2	294.7	285.8	286.7
47.5°	6293.6	4476.7	463.2	332.4	309.1	297.4	289.3	275.9	256.3	245.5	246.4
50°	6541.8	4508.1	394.2	301.0	284.0	272.4	260.7	240.1	216.8	205.1	204.3
52.5°	6605.4	4361.2	343.1	272.4	258.9	245.5	230.3	202.4	176.5	164.0	162.2
55°	6628.7	4137.2	297.4	245.5	232.0	216.8	197.1	165.7	141.6	129.0	128.1
57.5°	6551.7	3803.0	261.6	221.2	205.1	186.3	162.2	132.6	109.3	99.5	99.5
60°	6380.5	3350.6	233.8	195.3	177.4	155.8	130.8	103.0	81.5	73.5	73.5
62.5°	6039.2	2764.7	207.8	168.4	151.4	129.0	105.7	78.0	57.4	52.8	53.8
65°	5395.1	2097.3	181.8	144.2	129.0	106.6	82.4	55.5	38.6	38.6	40.3
67.5°	4399.7	1456.8	155.0	122.8	111.1	86.9	62.7	38.6	26.9	30.5	34.0
70°	2912.6	817.1	132.6	101.3	94.9	69.0	46.6	26.0	21.5	28.7	34.9
72.5°	1099.2	318.0	111.1	81.5	82.4	52.8	33.2	19.7	19.7	31.4	41.2
75°	306.4	155.8	79.7	60.0	64.5	38.6	24.2	17.0	18.8	35.9	48.3
77.5°	180.1	114.7	52.0	34.9	43.9	26.9	16.1	13.4	16.1	30.5	46.6
80°	145.1	60.9	30.5	17.9	24.2	15.2	10.7	8.1	4.5	11.6	24.2
82.5°	145.1	36.7	14.3	12.6	12.6	8.1	5.4	3.5	0.9	0.0	6.2
85°	97.6	15.2	8.9	8.1	6.2	2.7	1.8	0.9	0.0	0.0	0.0
87.5°	16.1	6.2	3.5	1.8	0.9	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)