

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: P528725

Luminaire Tested: **GALN-SA3D-750-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-750-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13480 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

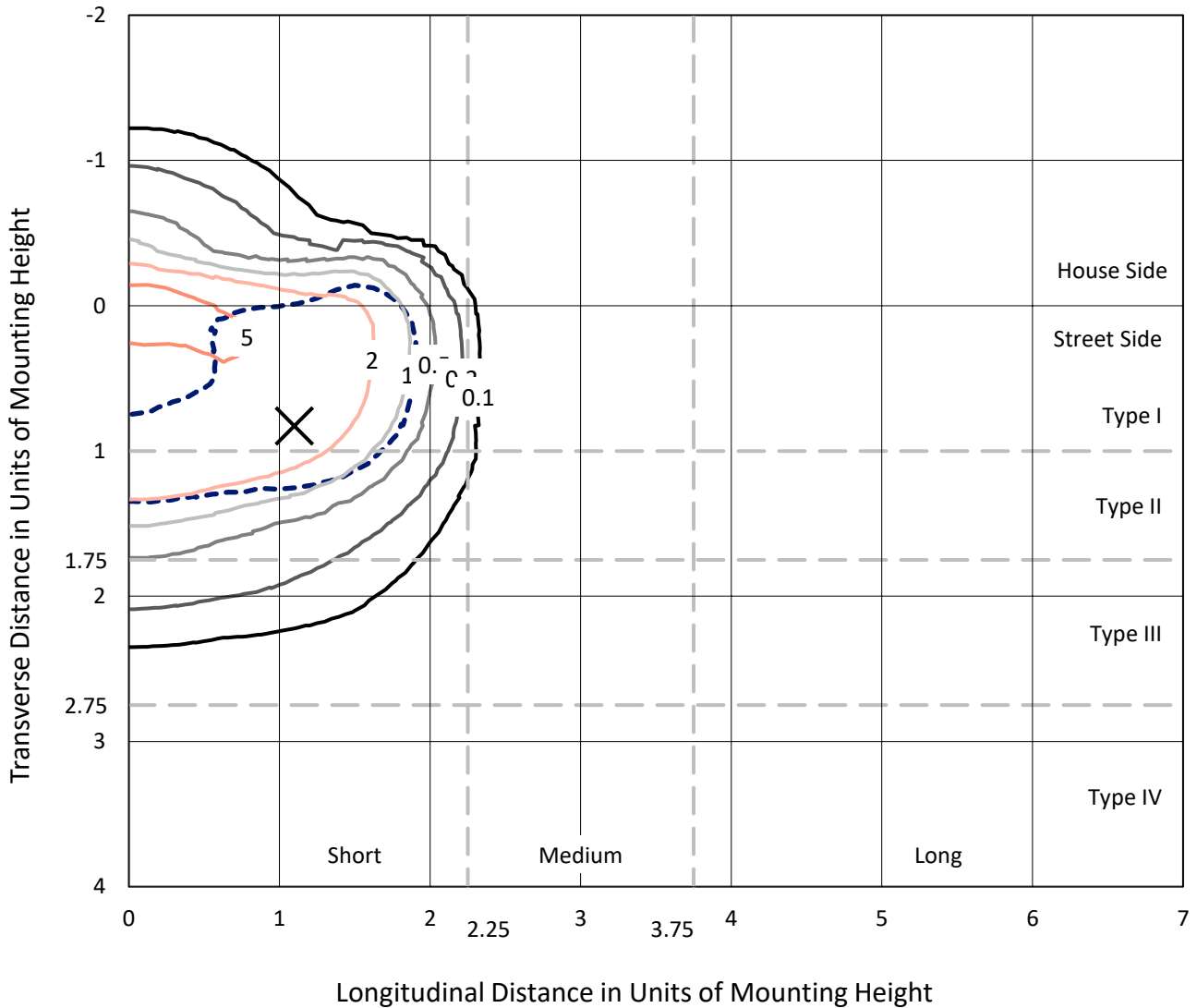
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

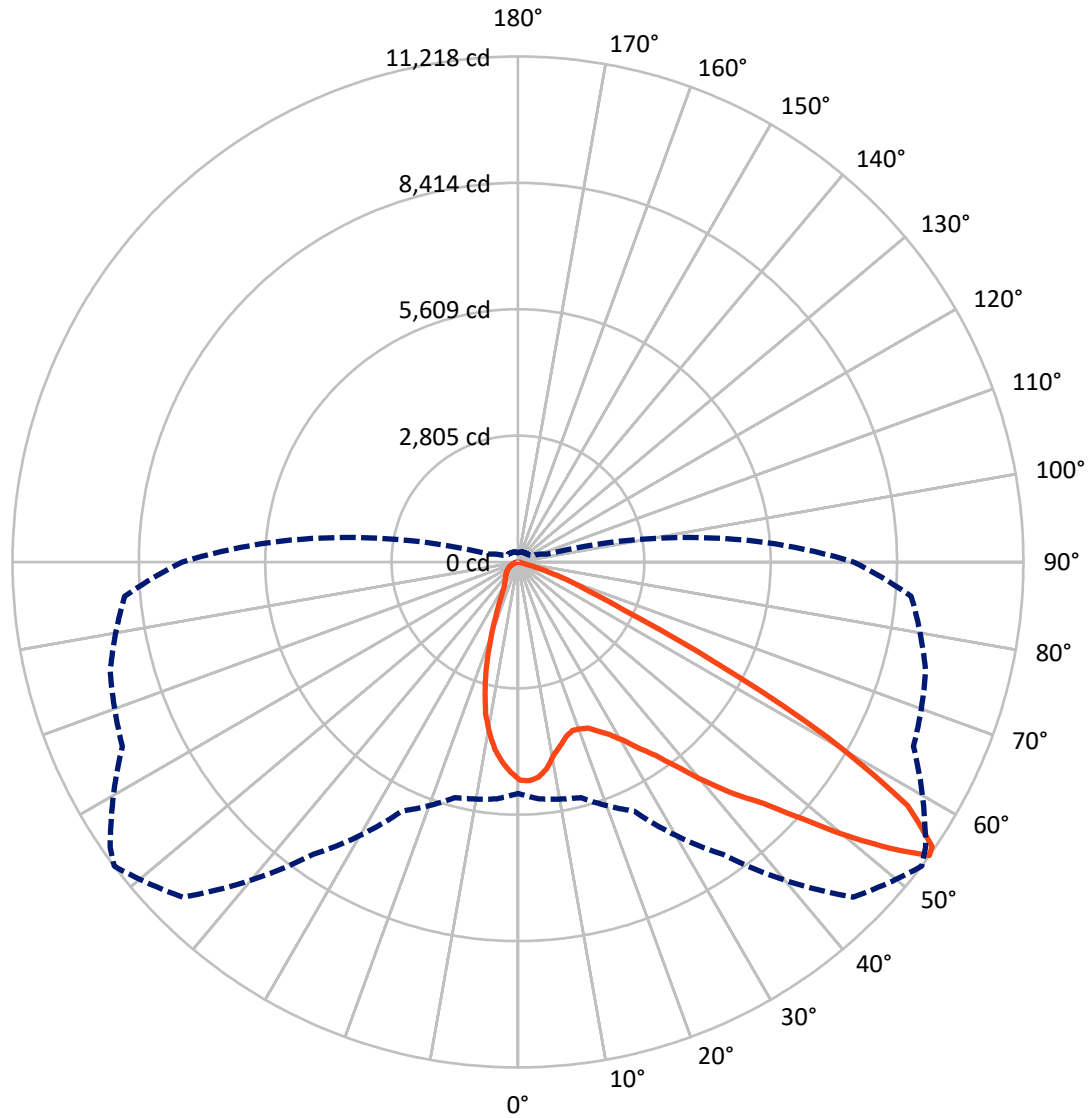
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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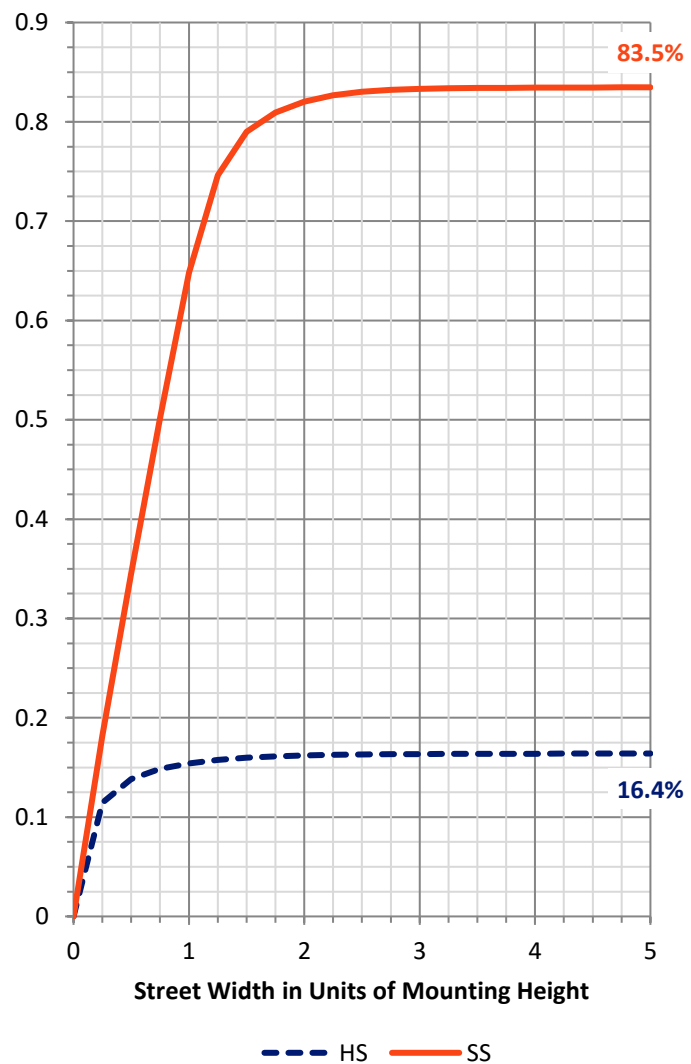
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2230.3	0.0	2230.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11249.7	0.0	11249.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	13480.0	0.0	13480.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.4	3.1
10°-20°	952.4	7.1
20°-30°	1353.6	10.0
30°-40°	2088.9	15.5
40°-50°	3275.3	24.3
50°-60°	3804.7	28.2
60°-70°	1437.6	10.7
70°-80°	136.7	1.0
80°-90°	15.4	0.1
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°	13480.0	100.0
0°-180°	13480.0	100.0



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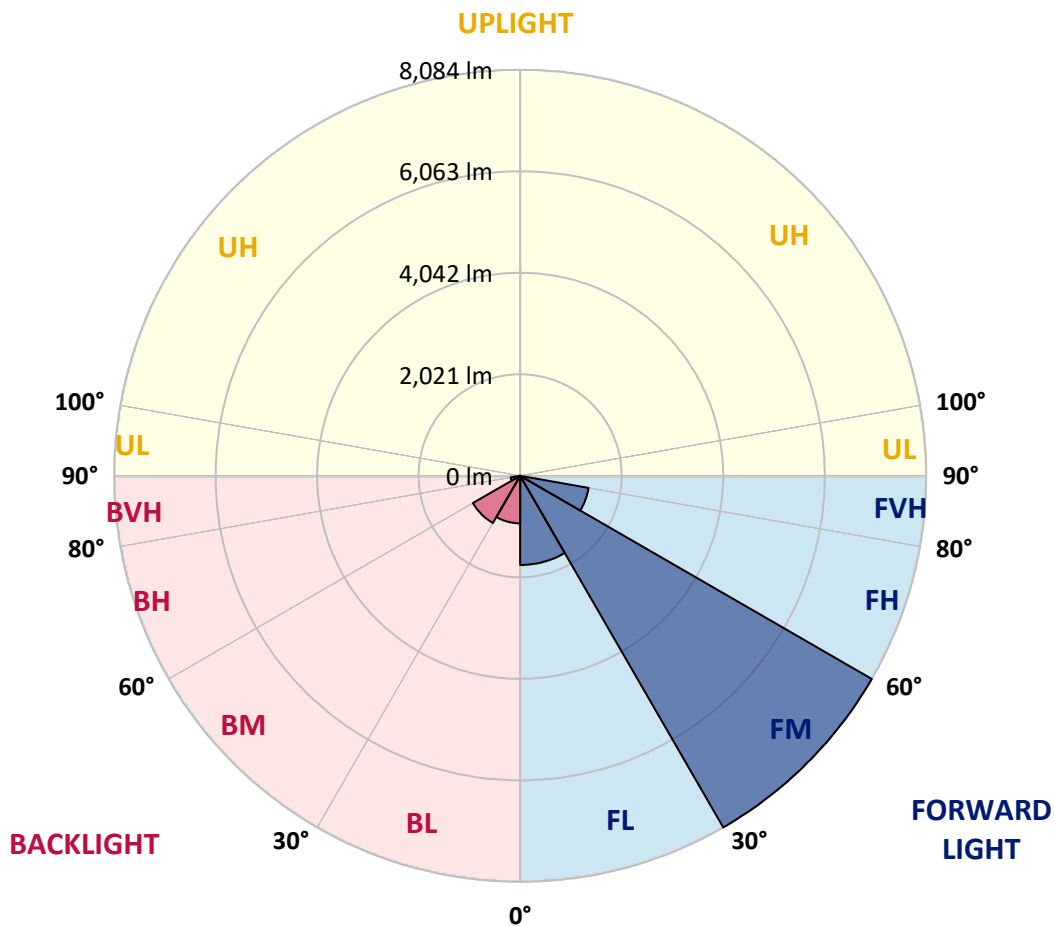
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.0	13.2			
FM (30°-60°)	8083.5	60.0			
FH (60°-80°)	1383.3	10.3			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	946.4	7.0	B2/1000		
BM (30°-60°)	1085.3	8.1	B2/2500		
BH (60°-80°)	191.1	1.4	B1/500		G1/500
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8
2.5°	4816.7	4774.0	4816.7	4821.7	4851.8	4879.5	4861.9	4902.1	4879.5	4854.3	4846.8
5°	4427.4	4485.2	4487.7	4578.1	4558.0	4723.8	4796.6	4776.5	4899.5	4892.0	4874.4
7.5°	4078.4	4055.8	4085.9	4191.4	4324.5	4515.3	4620.8	4618.3	4794.1	4919.6	4907.1
10°	3754.4	3751.9	3814.7	3897.5	4010.5	4211.5	4357.1	4429.9	4703.7	4894.5	4922.2
12.5°	3535.9	3525.9	3593.7	3661.5	3839.8	3995.5	4181.3	4216.5	4530.4	4806.6	4851.8
15°	3392.8	3415.4	3420.4	3551.0	3664.0	3869.9	4015.6	4088.4	4450.0	4736.3	4909.6
17.5°	3367.7	3397.8	3400.3	3508.3	3628.8	3802.1	3930.2	4028.1	4382.2	4771.5	4912.1
20°	3417.9	3400.3	3415.4	3483.2	3601.2	3767.0	3952.8	3985.4	4359.6	4789.1	4939.7
22.5°	3561.0	3556.0	3518.3	3573.6	3656.5	3829.7	4005.5	4055.8	4424.9	4879.5	4962.3
25°	3719.2	3746.9	3711.7	3704.2	3761.9	3932.7	4166.2	4231.5	4643.4	5042.7	5032.6
27.5°	4015.6	3987.9	3987.9	3952.8	3937.7	4020.6	4339.5	4447.5	4887.0	5253.6	5113.0
30°	4299.3	4329.5	4306.9	4319.4	4219.0	4211.5	4585.6	4718.7	5318.9	5575.1	5283.8
32.5°	4748.9	4708.7	4746.4	4713.7	4580.6	4445.0	4919.6	5057.8	5841.3	5944.2	5539.9
35°	5123.1	5105.5	5266.2	5261.2	5045.2	4912.1	5273.7	5479.7	6205.4	6386.2	5841.3
37.5°	5655.5	5622.8	5806.1	5894.0	5700.7	5502.3	5781.0	6019.6	6544.5	6740.3	6150.2
40°	6202.9	6285.8	6531.9	6677.5	6471.6	6207.9	6401.3	6474.1	6770.5	6971.4	6361.1
42.5°	6896.0	7016.6	7267.7	7393.3	7375.7	7089.4	7031.6	7029.1	6933.7	6906.1	6516.8
45°	7561.5	7516.3	7903.1	8176.8	8397.8	8314.9	7639.4	7564.0	7192.4	7004.0	6557.0
47.5°	7852.8	7837.8	8101.5	8588.7	9342.0	9445.0	8523.4	8232.0	7629.3	7415.9	6775.5
50°	7476.1	7554.0	7815.2	8355.1	9510.3	10296.3	9608.2	9216.5	8139.1	7918.1	7292.8
52.5°	6245.6	6298.3	6547.0	7232.5	8937.7	10798.6	10647.9	10421.9	9075.8	8709.2	8194.4
54°	5135.6	5276.2	5411.9	6100.0	7918.1	10519.8	11218.0	11044.7	9686.1	9367.2	8761.9
55°	4472.6	4555.5	4653.4	5339.0	7212.5	10047.7	11152.7	11167.8	10095.4	9573.1	9143.6
57.5°	3267.2	3325.0	3224.5	3528.4	4952.3	8159.2	10200.9	10607.7	10647.9	9882.0	9377.2
60°	2496.2	2521.3	2408.3	2456.1	3078.9	5600.2	7890.5	8380.2	9605.7	8636.4	7943.2
62.5°	1936.2	1941.2	1938.7	2021.6	2122.0	3294.8	4934.7	5369.2	6622.3	6132.6	5394.3
65°	1426.4	1403.8	1444.0	1695.1	1810.6	2071.8	2599.2	2915.6	3598.7	3038.7	2172.3
67.5°	924.2	931.7	971.9	1260.7	1552.0	1589.7	1599.7	1574.6	1577.1	868.9	545.0
70°	555.0	567.6	555.0	713.2	1110.0	1140.1	1042.2	1017.1	793.6	205.9	203.4
72.5°	329.0	311.4	278.8	306.4	462.1	552.5	497.2	494.7	311.4	120.5	120.5
75°	138.1	125.6	103.0	92.9	123.1	118.0	118.0	105.5	82.9	80.4	75.3
77.5°	27.6	27.6	20.1	22.6	30.1	35.2	42.7	42.7	50.2	50.2	47.7
80°	0.0	2.5	7.5	15.1	22.6	32.6	37.7	37.7	42.7	42.7	35.2
82.5°	0.0	2.5	7.5	15.1	20.1	30.1	37.7	37.7	42.7	45.2	37.7
85°	0.0	2.5	7.5	12.6	20.1	25.1	25.1	22.6	17.6	15.1	10.0
87.5°	0.0	0.0	2.5	5.0	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8	4841.8
2.5°	4864.4	4861.9	4801.6	4703.7	4681.1	4598.2	4588.1	4537.9	4565.5	4472.6	4462.6
5°	4824.2	4794.1	4721.2	4658.5	4475.1	4344.6	4241.6	4116.0	4043.2	4055.8	4008.0
7.5°	4882.0	4804.1	4676.0	4457.6	4234.1	4005.5	3882.5	3626.3	3533.4	3395.3	3375.2
10°	4821.7	4763.9	4565.5	4203.9	3895.0	3566.0	3277.2	2993.5	2777.5	2684.6	2664.5
12.5°	4816.7	4716.2	4384.7	3982.9	3535.9	3063.8	2644.4	2290.3	2076.8	1956.3	1928.7
15°	4738.8	4618.3	4181.3	3641.4	3023.6	2436.0	1978.9	1637.4	1474.1	1403.8	1423.9
17.5°	4746.4	4565.5	3977.9	3279.8	2518.8	1788.0	1351.1	1175.3	1132.6	1150.2	1150.2
20°	4738.8	4447.5	3731.8	2862.9	1928.7	1240.6	992.0	929.2	956.8	1012.1	999.5
22.5°	4698.6	4392.3	3505.8	2423.4	1418.9	919.1	796.1	798.6	841.3	909.1	924.2
25°	4728.8	4269.2	3219.5	1978.9	1034.7	733.3	690.6	708.2	753.4	803.6	813.7
27.5°	4706.2	4181.3	2920.6	1536.9	755.9	630.3	627.8	647.9	668.0	705.7	705.7
30°	4731.3	4101.0	2626.8	1142.6	622.8	577.6	567.6	582.6	602.7	610.2	607.7
32.5°	4824.2	4040.7	2287.8	853.8	550.0	527.4	527.4	527.4	524.9	534.9	537.4
35°	5027.6	4050.7	1989.0	660.5	502.3	484.7	477.1	467.1	462.1	467.1	469.6
37.5°	5248.6	4045.7	1680.1	562.5	467.1	452.0	434.5	419.4	416.9	421.9	414.4
40°	5346.6	4093.4	1393.8	504.8	434.5	416.9	389.3	376.7	379.2	384.2	379.2
42.5°	5479.7	4108.5	1207.9	459.6	404.3	376.7	359.1	344.0	341.5	349.1	346.6
45°	5477.1	4023.1	1012.1	434.5	376.7	346.6	324.0	311.4	311.4	316.4	318.9
47.5°	5637.9	4010.5	868.9	411.9	356.6	326.5	298.8	288.8	286.3	286.3	281.3
50°	6012.1	4186.3	758.4	386.7	331.5	303.9	281.3	268.7	258.7	253.6	251.1
52.5°	6742.8	4733.8	673.0	356.6	303.9	281.3	261.2	251.1	238.6	226.0	223.5
54°	7451.0	5298.8	668.0	331.5	281.3	266.2	248.6	243.6	228.5	210.9	205.9
55°	7770.0	5627.8	685.6	311.4	266.2	256.2	241.1	236.1	221.0	200.9	198.4
57.5°	8033.7	5755.9	675.5	258.7	241.1	238.6	226.0	218.5	200.9	173.3	168.3
60°	6466.6	4352.1	484.7	228.5	221.0	216.0	205.9	200.9	178.3	148.2	145.7
62.5°	4085.9	2503.8	308.9	200.9	193.4	185.8	173.3	168.3	148.2	118.0	110.5
65°	1740.3	1037.2	208.4	178.3	165.7	153.2	143.1	135.6	118.0	87.9	85.4
67.5°	452.0	369.2	173.3	155.7	138.1	120.5	113.0	100.5	80.4	60.3	57.8
70°	203.4	185.8	145.7	130.6	110.5	92.9	82.9	70.3	52.7	40.2	37.7
72.5°	120.5	118.0	110.5	97.9	82.9	70.3	60.3	47.7	35.2	22.6	22.6
75°	75.3	72.8	75.3	67.8	57.8	52.7	45.2	32.6	20.1	10.0	10.0
77.5°	45.2	45.2	45.2	42.7	40.2	40.2	32.6	20.1	10.0	2.5	2.5
80°	35.2	35.2	37.7	35.2	35.2	35.2	27.6	15.1	5.0	0.0	0.0
82.5°	35.2	37.7	42.7	40.2	35.2	30.1	25.1	15.1	5.0	0.0	0.0
85°	10.0	7.5	12.6	17.6	25.1	22.6	17.6	12.6	5.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	2.5	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)