

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: P319479

Luminaire Tested: **GLEON-SA5B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20569 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

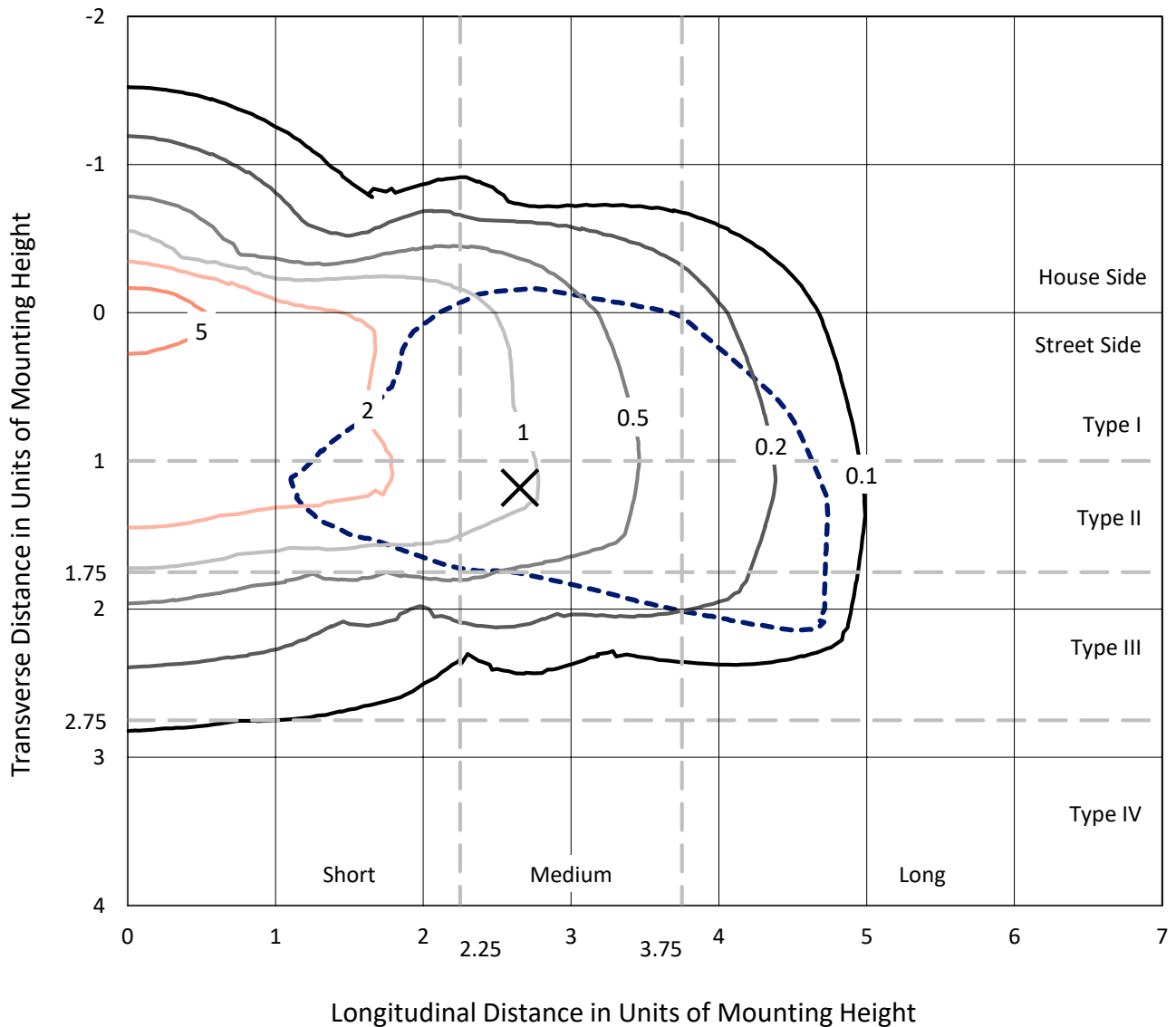
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

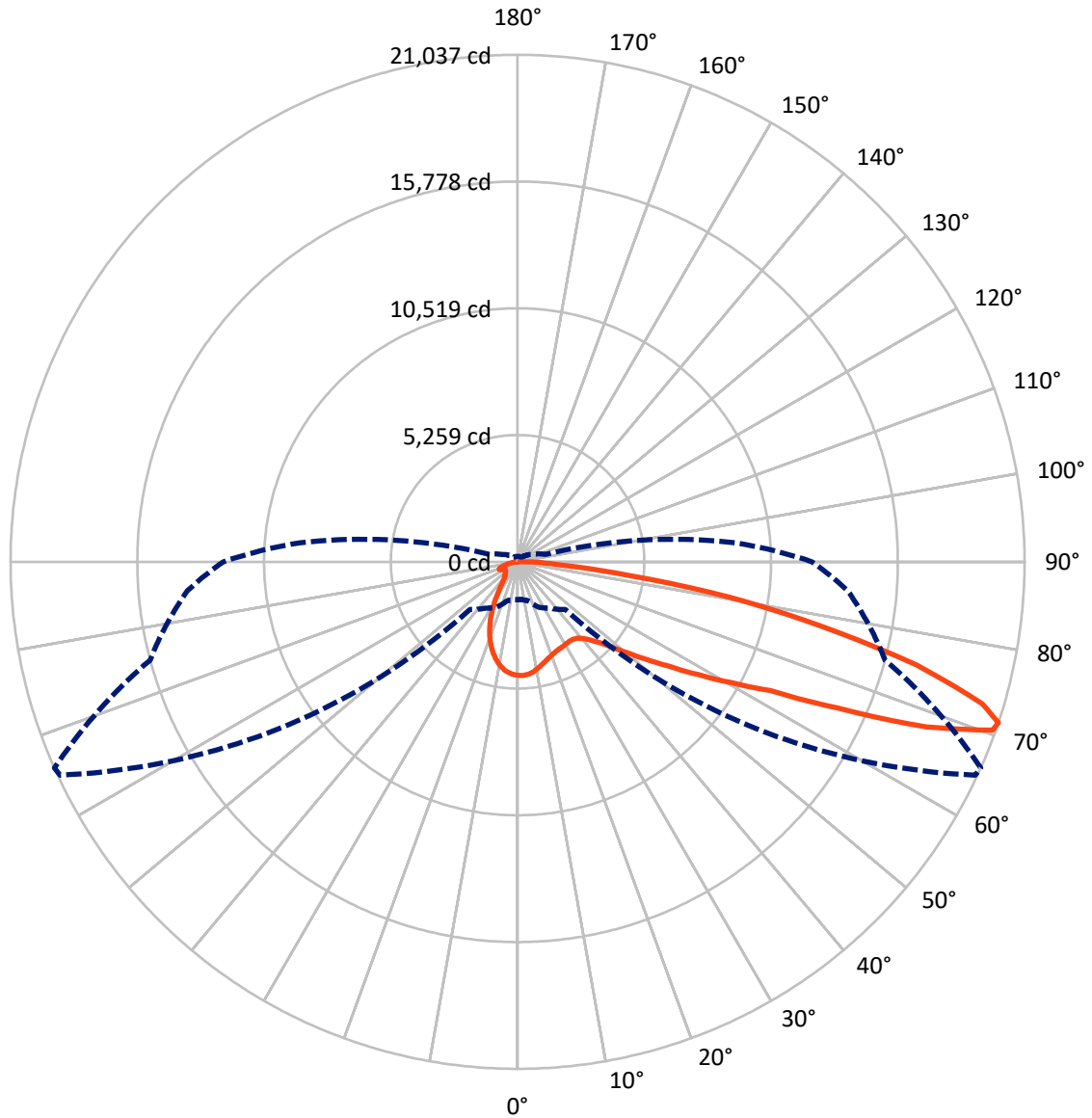
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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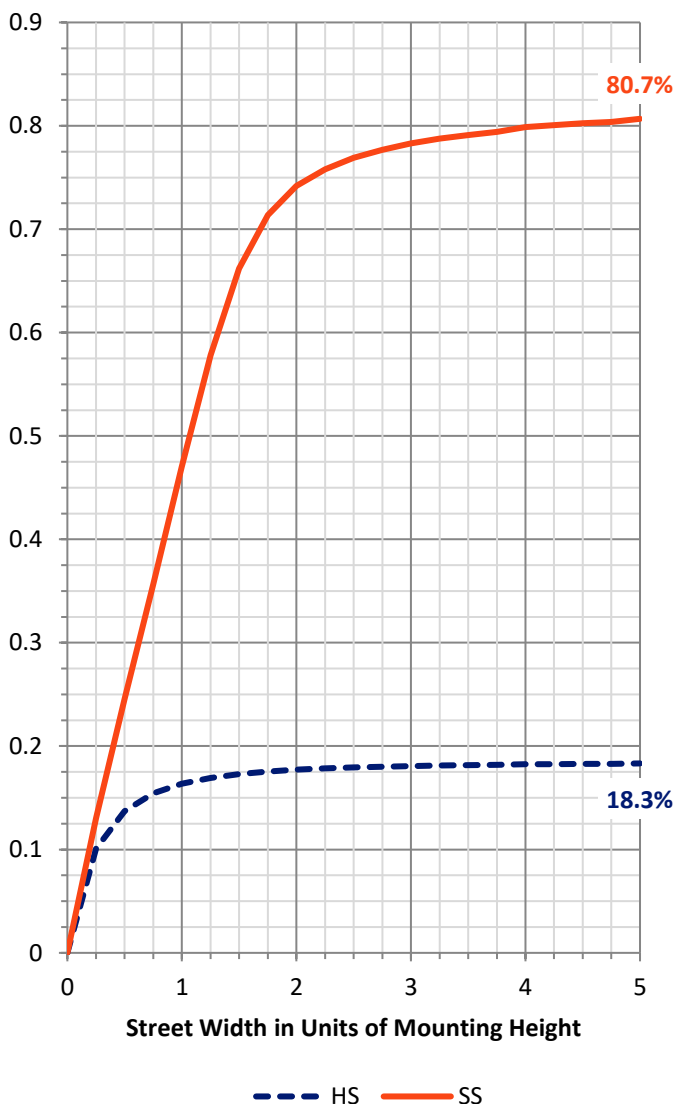
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3812.0	0.0	3812.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	16757.0	0.0	16757.0
	% Fixture	81.5	0.0	81.5
Total	Lumens	20569.0	0.0	20569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.8	2.0
10°-20°	994.8	4.8
20°-30°	1336.2	6.5
30°-40°	1757.8	8.5
40°-50°	2557.2	12.4
50°-60°	3994.5	19.4
60°-70°	5003.8	24.3
70°-80°	3816.8	18.6
80°-90°	693.1	3.4
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°	20569.0	100.0
0°-180°	20569.0	100.0

Coefficient of Utilization

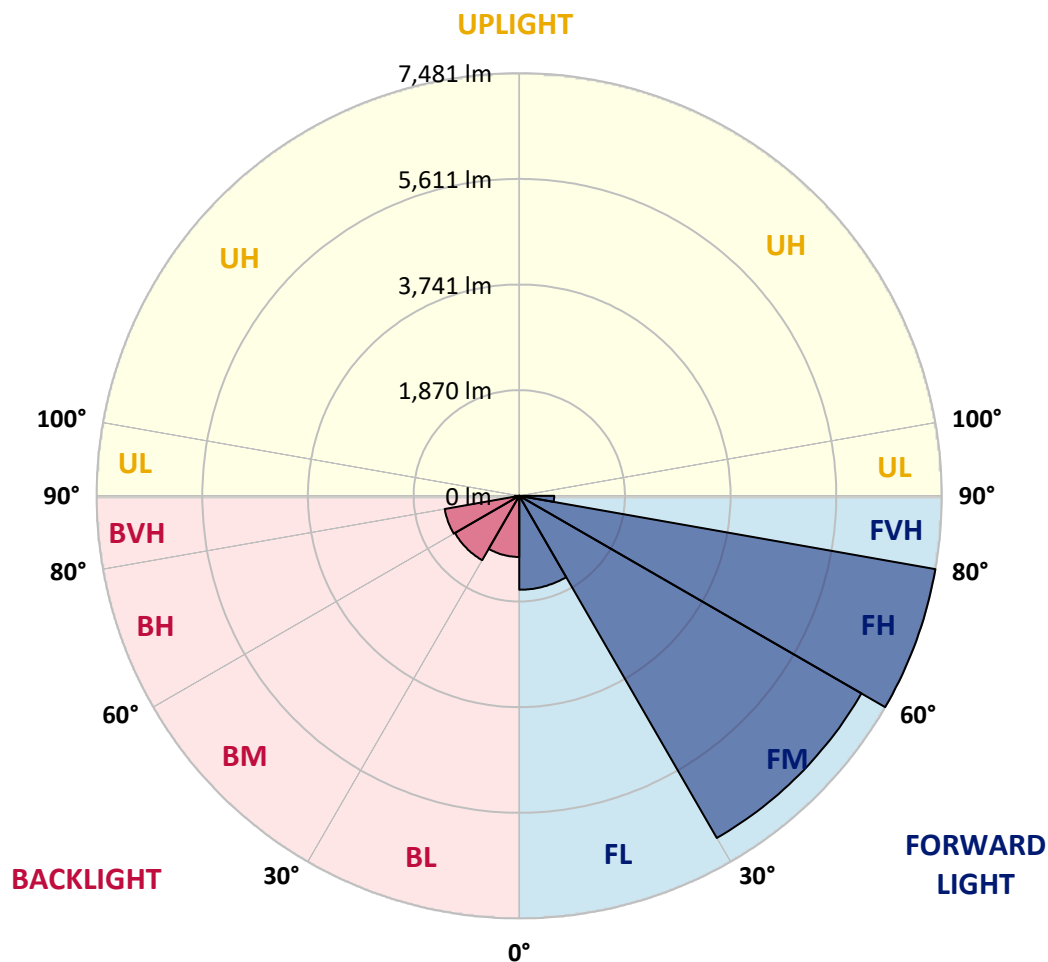


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.3	8.1			
FM (30°-60°)	6994.5	34.0			
FH (60°-80°)	7481.2	36.4			G3/7500
FVH (80°-90°)	618.1	3.0			G4/750
BL (0°-30°)	1082.5	5.3	B3/2500		
BM (30°-60°)	1315.0	6.4	B2/2500		
BH (60°-80°)	1339.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	75.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0
2.5°	4624.6	4617.5	4638.8	4660.8	4669.3	4683.6	4704.9	4716.9	4716.2	4718.4	4711.2
5°	4317.8	4308.6	4351.2	4386.0	4452.7	4528.0	4619.6	4685.0	4686.4	4723.3	4733.3
7.5°	4027.4	4021.0	4070.0	4126.1	4203.5	4318.5	4467.0	4607.6	4616.1	4716.2	4751.0
10°	3794.4	3793.0	3840.6	3901.7	3991.9	4120.4	4290.8	4496.8	4509.6	4682.1	4753.9
12.5°	3612.6	3615.5	3656.7	3726.2	3821.4	3955.6	4140.3	4372.5	4393.1	4628.2	4737.5
15°	3478.4	3489.8	3523.1	3593.4	3687.2	3823.5	4013.2	4257.5	4288.7	4567.8	4728.3
17.5°	3401.7	3414.5	3437.9	3496.2	3584.2	3715.6	3895.3	4163.0	4191.4	4521.6	4729.0
20°	3379.0	3389.6	3403.1	3438.6	3513.2	3632.5	3802.2	4077.8	4108.3	4484.7	4736.1
22.5°	3423.7	3431.5	3432.9	3430.1	3475.6	3572.9	3734.8	4015.3	4048.0	4460.6	4741.1
25°	3519.6	3530.2	3522.4	3496.2	3481.2	3540.9	3700.0	3974.1	4006.8	4442.8	4731.1
27.5°	3663.8	3665.2	3658.8	3624.7	3554.4	3544.4	3689.3	3950.0	3981.2	4422.2	4710.5
30°	3859.8	3869.0	3857.6	3811.5	3696.4	3601.3	3702.1	3926.5	3954.9	4395.9	4677.2
32.5°	4089.1	4111.9	4111.2	4062.9	3898.1	3728.4	3754.7	3912.3	3934.3	4368.2	4636.7
35°	4327.0	4358.3	4416.5	4395.9	4192.1	3929.4	3855.5	3935.0	3950.0	4364.7	4608.3
37.5°	4574.2	4605.4	4725.5	4780.8	4542.2	4217.0	4014.6	4015.3	4022.4	4408.0	4606.1
40°	4832.7	4866.1	5046.4	5190.6	4996.0	4581.3	4270.9	4182.9	4175.1	4514.5	4648.0
42.5°	5194.9	5224.7	5441.3	5625.2	5499.5	5047.9	4625.3	4441.4	4425.1	4723.3	4782.3
45°	5652.9	5678.5	5908.6	6105.3	6040.7	5580.5	5070.6	4797.2	4794.3	5071.3	5054.3
47.5°	6197.6	6217.5	6424.2	6614.5	6637.9	6193.4	5630.2	5346.1	5300.0	5548.5	5475.4
50°	6765.1	6787.1	6927.7	7132.2	7306.2	7013.6	6350.3	6018.7	5956.9	6178.5	6071.9
52.5°	7140.7	7169.8	7292.0	7551.2	8057.6	7912.7	7201.8	6833.9	6740.2	6941.9	6860.2
55°	6973.1	7038.5	7225.2	7640.7	8658.4	9286.1	8252.1	7784.9	7679.0	7846.6	7798.3
57.5°	6211.1	6300.6	6555.6	7196.8	8742.9	10496.3	9840.1	8904.8	8830.2	8781.9	8803.9
60°	4818.5	4904.4	5220.4	6056.3	8154.1	11379.7	12229.8	10285.4	10177.4	9720.8	9740.7
62.5°	3410.2	3366.9	3583.5	4195.0	6625.9	11483.4	14949.0	12131.8	11776.7	10712.2	10624.8
65°	2600.6	2590.7	2688.0	2882.6	4013.2	10242.7	16568.9	15235.2	14680.6	11878.3	11672.3
67.5°	2136.9	2119.1	2215.0	2498.4	2584.3	6608.1	16604.4	18835.8	18291.1	13329.8	12883.9
70°	1757.0	1737.1	1826.6	2192.3	2388.3	3351.3	13974.7	20944.3	20915.1	15167.8	13798.5
71°	1575.2	1560.9	1668.2	2074.4	2346.4	2793.1	12065.7	20949.9	21037.3	15789.9	13744.6
72.5°	1282.6	1287.5	1401.2	1846.4	2315.1	2466.4	8867.9	19973.5	20158.1	16382.8	13253.9
75°	852.2	856.5	1005.6	1420.3	2244.8	2413.1	4873.9	16759.9	17099.4	16027.8	12094.1
77.5°	572.4	571.0	672.5	974.3	1955.8	2413.1	2857.7	12535.2	12908.0	12753.2	9323.8
80°	394.1	391.3	463.0	672.5	1480.7	2442.3	2209.3	8784.8	8897.7	6887.2	3789.5
82.5°	241.5	243.6	302.5	475.1	1007.7	2198.0	2085.8	4790.1	4667.2	1931.7	946.7
85°	138.5	137.8	193.2	321.7	647.0	1855.0	2033.9	2061.6	1891.2	581.6	342.3
87.5°	49.7	53.3	103.7	178.3	370.7	1291.8	1725.7	1072.4	966.5	262.8	154.8
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°	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0	4712.0
2.5°	4706.3	4710.5	4705.6	4677.2	4653.0	4614.0	4591.9	4561.4	4552.2	4547.9	4559.3
5°	4724.0	4725.5	4683.6	4609.0	4525.2	4426.5	4355.5	4268.1	4226.9	4209.2	4220.5
7.5°	4740.4	4734.0	4642.4	4499.6	4344.8	4172.9	4020.3	3880.4	3798.7	3765.3	3768.1
10°	4742.5	4715.5	4568.5	4347.6	4107.6	3855.5	3621.1	3405.3	3268.9	3180.1	3207.1
12.5°	4720.5	4675.0	4459.9	4150.9	3817.9	3474.1	3157.4	2833.6	2639.0	2548.8	2551.6
15°	4703.4	4621.1	4326.3	3919.4	3472.0	3016.8	2584.3	2203.6	1996.3	1904.0	1860.6
17.5°	4689.2	4562.8	4171.5	3658.8	3063.7	2486.3	1966.5	1627.0	1513.4	1486.4	1475.0
20°	4669.3	4501.0	3999.0	3357.0	2598.5	1892.6	1436.0	1268.4	1269.1	1300.3	1304.6
22.5°	4641.7	4430.7	3815.0	3018.2	2099.3	1378.4	1125.6	1077.3	1126.3	1186.0	1196.6
25°	4600.5	4347.6	3610.5	2644.0	1600.7	1059.6	961.6	959.4	1019.1	1081.6	1090.8
27.5°	4542.2	4239.0	3383.2	2242.0	1179.6	900.5	861.4	876.3	920.4	965.8	969.4
30°	4464.1	4112.6	3132.5	1818.0	924.6	801.8	797.5	811.0	838.0	870.0	872.8
32.5°	4378.2	3984.0	2864.8	1407.6	791.8	748.5	752.8	759.2	772.0	784.7	787.6
35°	4300.1	3852.7	2590.7	1069.5	728.6	713.7	710.9	709.5	710.9	706.6	707.3
37.5°	4249.6	3744.0	2305.2	851.5	692.4	683.2	674.7	664.0	651.9	644.8	646.3
40°	4231.2	3663.0	2016.2	735.7	662.6	656.2	639.9	617.1	602.9	598.7	598.7
42.5°	4280.9	3621.1	1737.1	677.5	637.7	627.1	600.1	573.8	563.2	562.5	561.7
45°	4432.9	3638.2	1471.5	645.5	615.0	594.4	558.9	536.9	529.8	531.2	530.5
47.5°	4705.6	3745.4	1244.2	624.2	592.3	565.3	525.5	507.8	499.2	499.2	500.0
50°	5169.3	3996.1	1063.1	606.5	573.1	538.3	501.4	479.4	468.0	467.3	467.3
52.5°	5844.7	4444.9	950.2	591.6	551.8	514.2	477.2	449.5	436.0	433.2	431.8
55°	6691.2	5088.3	919.0	581.6	523.4	487.9	448.1	420.4	405.5	399.1	398.4
57.5°	7637.8	5871.0	980.7	569.6	494.3	456.6	416.2	389.9	374.3	366.4	365.7
60°	8595.9	6725.3	1232.9	552.5	470.1	422.5	383.5	359.3	343.7	335.2	333.8
62.5°	9555.3	7625.8	1747.7	551.1	453.1	389.9	350.1	329.5	314.6	305.4	303.2
65°	10637.6	8611.5	2332.9	588.7	447.4	360.1	316.0	299.7	286.9	278.4	277.7
67.5°	11880.4	9724.3	2276.8	666.1	466.6	333.1	284.1	271.3	262.1	255.0	254.2
70°	12463.4	9550.3	1415.4	720.8	493.6	306.8	253.5	244.3	237.2	232.2	230.1
71°	12219.1	9068.1	1186.7	714.4	490.7	295.4	241.5	234.4	227.3	223.0	220.9
72.5°	11553.0	8269.9	990.0	664.7	458.8	274.8	225.8	218.7	212.3	207.4	205.9
75°	10367.0	7385.7	792.5	531.2	365.7	232.2	198.1	190.3	185.4	182.5	179.7
77.5°	7620.8	5270.9	612.9	419.7	269.2	189.6	169.0	163.3	158.4	154.1	152.0
80°	2919.5	2041.7	412.6	313.2	197.4	149.8	136.4	133.5	128.5	125.7	125.7
82.5°	786.2	610.0	220.2	189.6	132.1	109.4	104.4	103.0	98.7	93.0	93.7
85°	318.2	269.2	123.6	104.4	81.0	64.6	70.3	71.0	66.0	58.9	59.7
87.5°	139.9	114.3	68.9	46.2	35.5	24.9	32.0	32.0	29.1	24.1	22.0
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)