

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: P319470

Luminaire Tested: **GLEON-SA6A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319470
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-SA6A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 20072 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

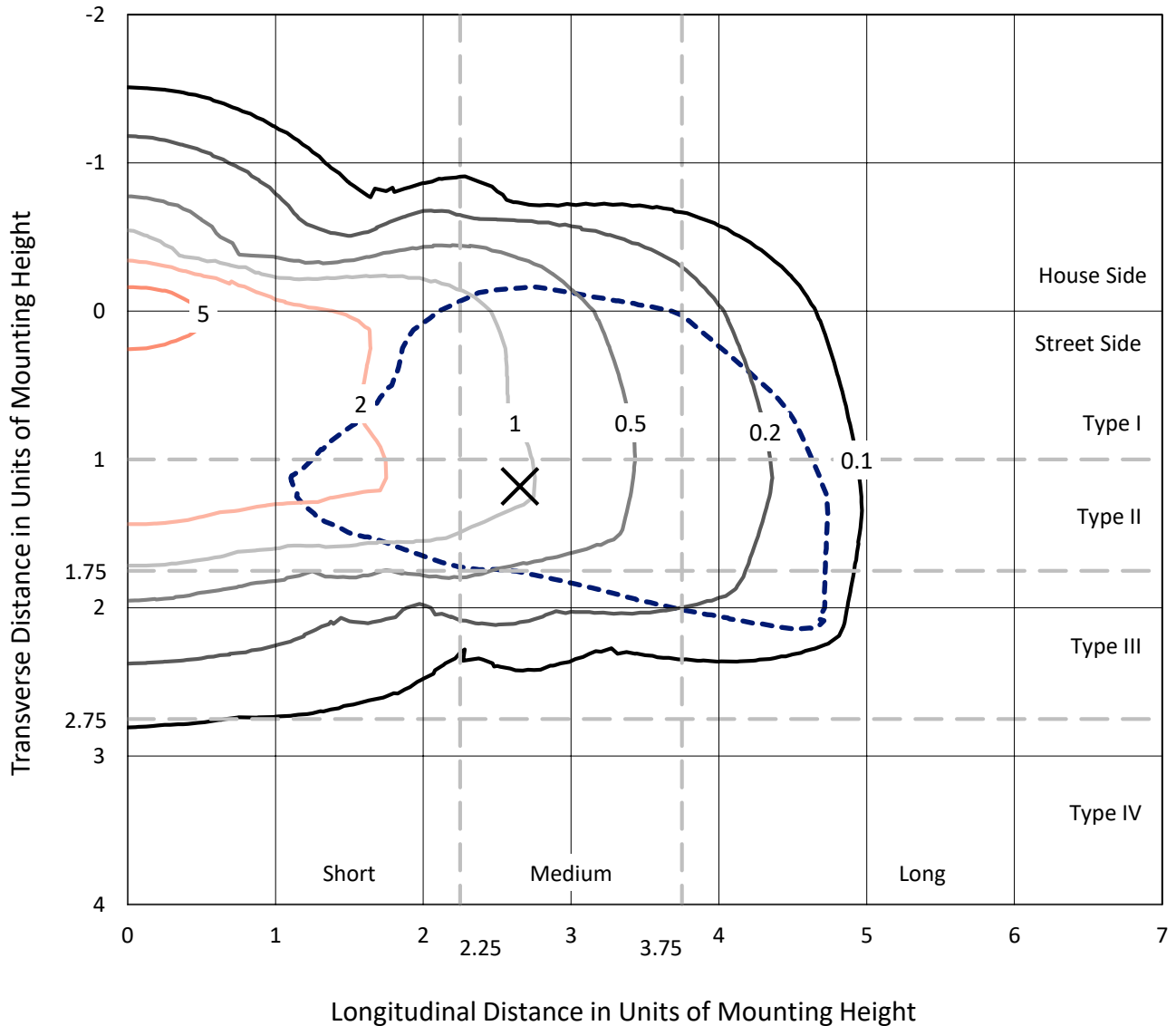
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

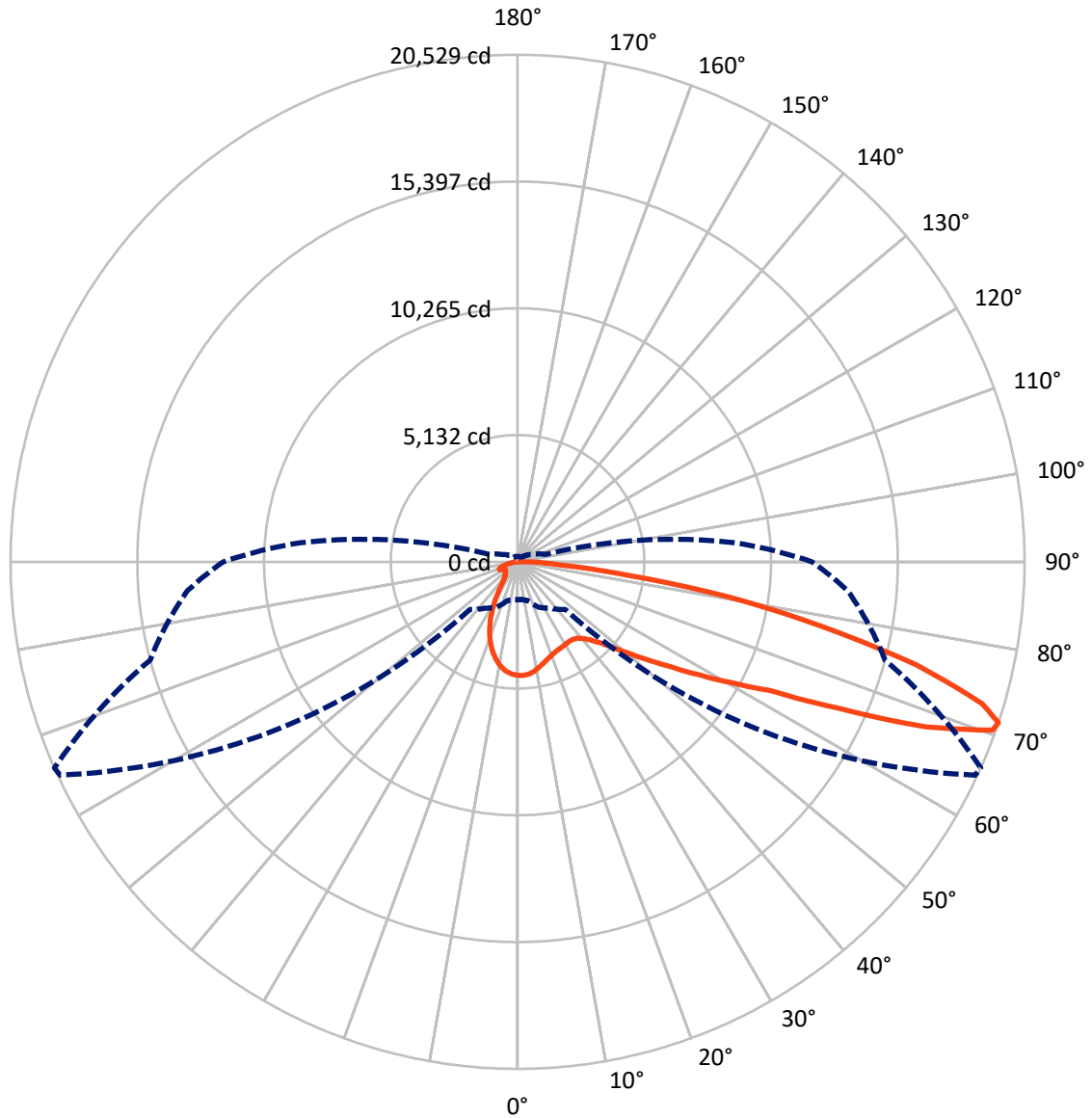
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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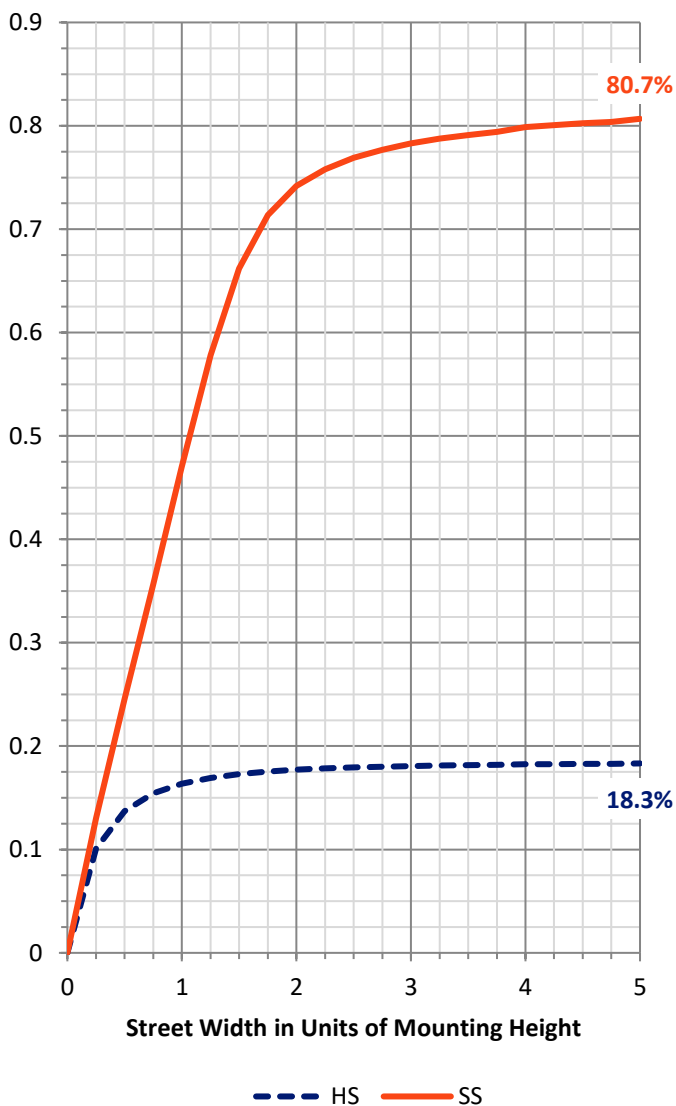
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3719.9	0.0	3719.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	16352.1	0.0	16352.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	20072.0	0.0	20072.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	2.0
10°-20°	970.7	4.8
20°-30°	1304.0	6.5
30°-40°	1715.3	8.5
40°-50°	2495.4	12.4
50°-60°	3898.0	19.4
60°-70°	4882.9	24.3
70°-80°	3724.6	18.6
80°-90°	676.3	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°	20072.0	100.0
0°-180°	20072.0	100.0

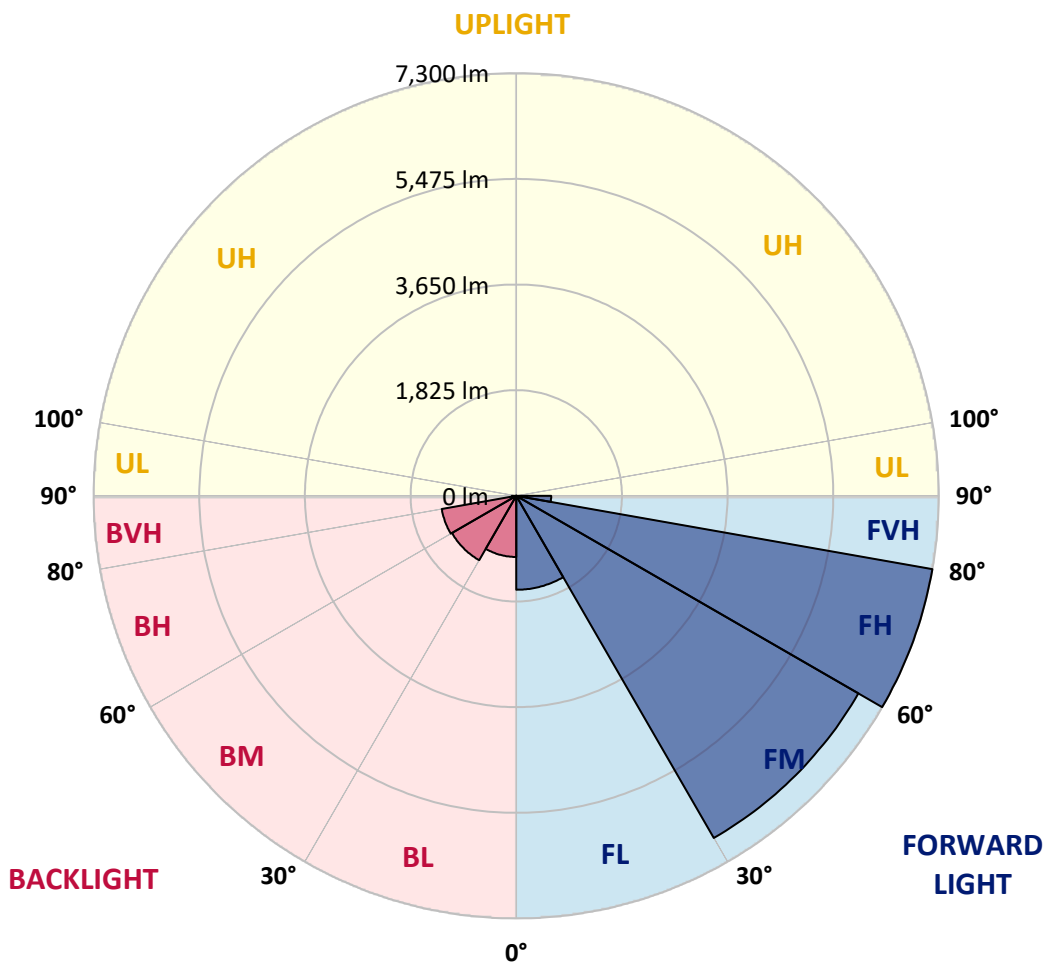


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1623.1	8.1			
FM (30°-60°)	6825.5	34.0			
FH (60°-80°)	7300.4	36.4			G3/7500
FVH (80°-90°)	603.1	3.0			G4/750
BL (0°-30°)	1056.3	5.3	B3/2500		
BM (30°-60°)	1283.2	6.4	B2/2500		
BH (60°-80°)	1307.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	73.2	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°	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1
2.5°	4512.9	4505.9	4526.7	4548.2	4556.5	4570.4	4591.2	4603.0	4602.3	4604.3	4597.4
5°	4213.5	4204.5	4246.1	4280.0	4345.2	4418.6	4508.0	4571.8	4573.2	4609.2	4618.9
7.5°	3930.0	3923.8	3971.6	4026.4	4101.9	4214.2	4359.0	4496.2	4504.6	4602.3	4636.2
10°	3702.7	3701.4	3747.8	3807.4	3895.4	4020.8	4187.2	4388.1	4400.6	4569.0	4639.0
12.5°	3525.3	3528.1	3568.3	3636.2	3729.1	3860.1	4040.2	4266.8	4286.9	4516.3	4623.1
15°	3394.4	3405.4	3438.0	3506.6	3598.1	3731.2	3916.2	4154.6	4185.1	4457.4	4614.0
17.5°	3319.5	3332.0	3354.9	3411.7	3497.6	3625.8	3801.1	4062.4	4090.1	4412.4	4614.7
20°	3297.3	3307.7	3320.9	3355.5	3428.3	3544.7	3710.4	3979.3	4009.0	4376.3	4621.7
22.5°	3341.0	3348.6	3350.0	3347.2	3391.6	3486.5	3644.5	3918.3	3950.1	4352.8	4626.5
25°	3434.5	3444.9	3437.3	3411.7	3397.1	3455.3	3610.6	3878.1	3909.9	4335.5	4616.8
27.5°	3575.2	3576.6	3570.4	3537.1	3468.5	3458.8	3600.2	3854.5	3885.0	4315.4	4596.7
30°	3766.5	3775.5	3764.4	3719.4	3607.1	3514.2	3612.6	3831.6	3859.4	4289.7	4564.1
32.5°	3990.3	4012.5	4011.8	3964.7	3803.9	3638.3	3663.9	3817.8	3839.3	4262.7	4524.6
35°	4222.5	4253.0	4309.8	4289.7	4090.8	3834.4	3762.3	3840.0	3854.5	4259.2	4496.9
37.5°	4463.7	4494.2	4611.3	4665.3	4432.5	4115.1	3917.6	3918.3	3925.2	4301.5	4494.8
40°	4715.9	4748.5	4924.5	5065.2	4875.3	4470.6	4167.7	4081.8	4074.2	4405.5	4535.7
42.5°	5069.4	5098.5	5309.8	5489.3	5366.7	4925.9	4513.6	4334.1	4318.1	4609.2	4666.7
45°	5516.3	5541.3	5765.8	5957.8	5894.7	5445.7	4948.1	4681.3	4678.5	4948.8	4932.1
47.5°	6047.9	6067.3	6268.9	6454.7	6477.5	6043.7	5494.2	5217.0	5171.9	5414.5	5343.1
50°	6601.6	6623.1	6760.3	6959.9	7129.7	6844.1	6196.9	5873.2	5812.9	6029.2	5925.2
52.5°	6968.2	6996.6	7115.8	7368.8	7862.9	7721.5	7027.8	6668.8	6577.3	6774.2	6694.5
55°	6804.6	6868.4	7050.7	7456.1	8449.2	9061.8	8052.8	7596.8	7493.5	7657.0	7609.9
57.5°	6061.0	6148.4	6397.2	7022.9	8531.6	10242.7	9602.3	8689.6	8616.9	8569.7	8591.2
60°	4702.1	4785.9	5094.3	5910.0	7957.1	11104.8	11934.3	10036.8	9931.5	9485.9	9505.3
62.5°	3327.8	3285.5	3496.9	4093.6	6465.8	11205.9	14587.8	11838.7	11492.1	10453.3	10368.1
65°	2537.8	2528.1	2623.0	2812.9	3916.2	9995.3	16168.6	14867.1	14325.9	11591.2	11390.3
67.5°	2085.3	2067.9	2161.5	2438.0	2521.9	6448.4	16203.2	18380.6	17849.1	13007.8	12572.5
70°	1714.5	1695.1	1782.4	2139.3	2330.6	3270.3	13637.0	20438.2	20409.8	14801.3	13465.1
71°	1537.1	1523.2	1627.9	2024.3	2289.7	2725.6	11774.2	20443.7	20529.0	15408.3	13412.5
72.5°	1251.6	1256.4	1367.3	1801.8	2259.2	2406.8	8653.6	19490.8	19671.0	15987.0	12933.6
75°	831.6	835.8	981.3	1386.0	2190.6	2354.8	4756.1	16355.0	16686.2	15640.5	11801.9
77.5°	558.6	557.2	656.3	950.8	1908.5	2354.8	2788.7	12232.3	12596.1	12445.0	9098.5
80°	384.6	381.8	451.8	656.3	1444.9	2383.3	2155.9	8572.5	8682.7	6720.8	3697.9
82.5°	235.6	237.7	295.2	463.6	983.4	2144.9	2035.4	4674.3	4554.4	1885.0	923.8
85°	135.1	134.4	188.5	313.9	631.3	1810.1	1984.8	2011.8	1845.5	567.6	334.0
87.5°	48.5	52.0	101.2	173.9	361.8	1260.6	1684.0	1046.4	943.2	256.4	151.1
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°	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1	4598.1
2.5°	4592.6	4596.7	4591.9	4564.1	4540.6	4502.5	4481.0	4451.2	4442.2	4438.0	4449.1
5°	4609.9	4611.3	4570.4	4497.6	4415.8	4319.5	4250.2	4165.0	4124.8	4107.5	4118.5
7.5°	4625.8	4619.6	4530.2	4390.9	4239.8	4072.1	3923.1	3786.6	3706.9	3674.3	3677.1
10°	4627.9	4601.6	4458.1	4242.6	4008.4	3762.3	3533.6	3323.0	3189.9	3103.3	3129.6
12.5°	4606.4	4562.1	4352.1	4050.6	3725.6	3390.2	3081.1	2765.1	2575.2	2487.2	2490.0
15°	4589.8	4509.4	4221.8	3824.7	3388.1	2943.9	2521.9	2150.4	1948.0	1858.0	1815.7
17.5°	4575.9	4452.6	4070.7	3570.4	2989.6	2426.2	1918.9	1587.7	1476.8	1450.5	1439.4
20°	4556.5	4392.3	3902.3	3275.8	2535.7	1846.9	1401.3	1237.7	1238.4	1268.9	1273.1
22.5°	4529.5	4323.7	3722.8	2945.3	2048.5	1345.1	1098.4	1051.3	1099.1	1157.3	1167.7
25°	4489.3	4242.6	3523.3	2580.1	1562.0	1034.0	938.3	936.3	994.5	1055.5	1064.5
27.5°	4432.5	4136.6	3301.5	2187.8	1151.1	878.7	840.6	855.2	898.1	942.5	946.0
30°	4356.2	4013.2	3056.9	1774.1	902.3	782.4	778.2	791.4	817.7	848.9	851.7
32.5°	4272.4	3887.8	2795.6	1373.5	772.7	730.4	734.6	740.8	753.3	765.8	768.5
35°	4196.2	3759.6	2528.1	1043.7	711.0	696.5	693.7	692.3	693.7	689.5	690.2
37.5°	4147.0	3653.5	2249.5	830.9	675.7	666.7	658.4	648.0	636.2	629.3	630.6
40°	4128.9	3574.5	1967.4	718.0	646.6	640.3	624.4	602.2	588.4	584.2	584.2
42.5°	4177.5	3533.6	1695.1	661.1	622.3	611.9	585.6	560.0	549.6	548.9	548.2
45°	4325.8	3550.3	1435.9	629.9	600.1	580.0	545.4	523.9	517.0	518.4	517.7
47.5°	4591.9	3654.9	1214.1	609.2	578.0	551.6	512.8	495.5	487.2	487.2	487.9
50°	5044.4	3899.6	1037.4	591.8	559.3	525.3	489.3	467.8	456.7	456.0	456.0
52.5°	5703.5	4337.5	927.2	577.3	538.5	501.7	465.7	438.7	425.5	422.7	421.3
55°	6529.5	4965.4	896.8	567.6	510.7	476.1	437.3	410.3	395.7	389.5	388.8
57.5°	7453.3	5729.1	957.0	555.8	482.3	445.6	406.1	380.5	365.2	357.6	356.9
60°	8388.2	6562.8	1203.1	539.2	458.8	412.3	374.2	350.7	335.4	327.1	325.7
62.5°	9324.4	7441.5	1705.5	537.8	442.1	380.5	341.7	321.6	307.0	298.0	295.9
65°	10380.6	8403.4	2276.5	574.5	436.6	351.4	308.4	292.4	280.0	271.7	271.0
67.5°	11593.3	9489.4	2221.8	650.0	455.3	325.0	277.2	264.7	255.7	248.8	248.1
70°	12162.3	9319.6	1381.2	703.4	481.6	299.4	247.4	238.4	231.5	226.6	224.5
71°	11923.9	8849.0	1158.0	697.2	478.9	288.3	235.6	228.7	221.8	217.6	215.5
72.5°	11273.9	8070.1	966.1	648.7	447.7	268.2	220.4	213.4	207.2	202.4	201.0
75°	10116.5	7207.3	773.4	518.4	356.9	226.6	193.3	185.7	180.9	178.1	175.3
77.5°	7436.7	5143.5	598.1	409.6	262.6	185.0	164.9	159.4	154.5	150.4	148.3
80°	2849.0	1992.4	402.6	305.6	192.7	146.2	133.1	130.3	125.4	122.7	122.7
82.5°	767.2	595.3	214.8	185.0	128.9	106.7	101.9	100.5	96.3	90.8	91.5
85°	310.5	262.6	120.6	101.9	79.0	63.1	68.6	69.3	64.4	57.5	58.2
87.5°	136.5	111.6	67.2	45.0	34.7	24.3	31.2	31.2	28.4	23.6	21.5
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)