

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: P319498

Luminaire Tested: **GLEON-SA4D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319498
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-SA4D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA 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: 22540 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

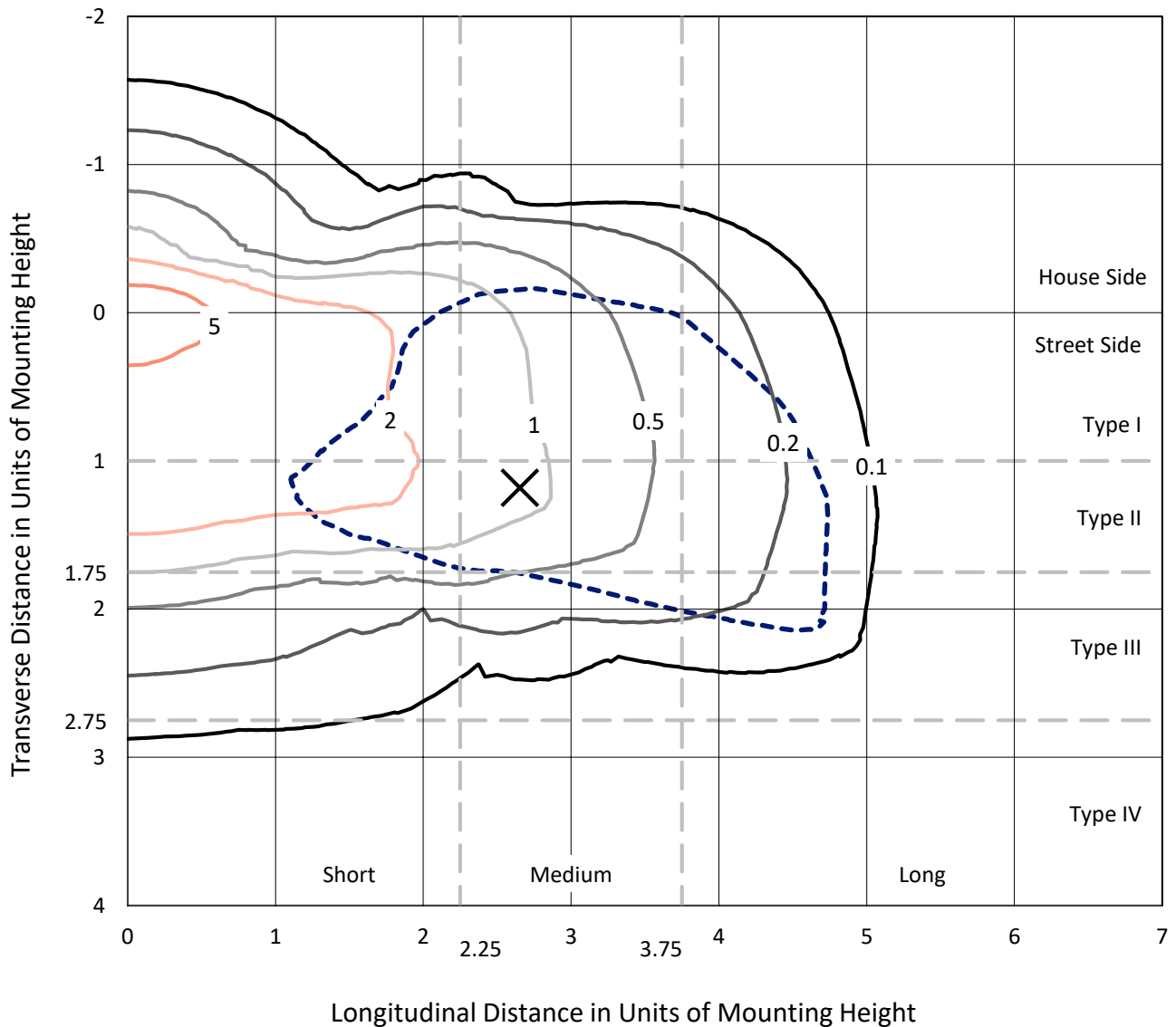
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

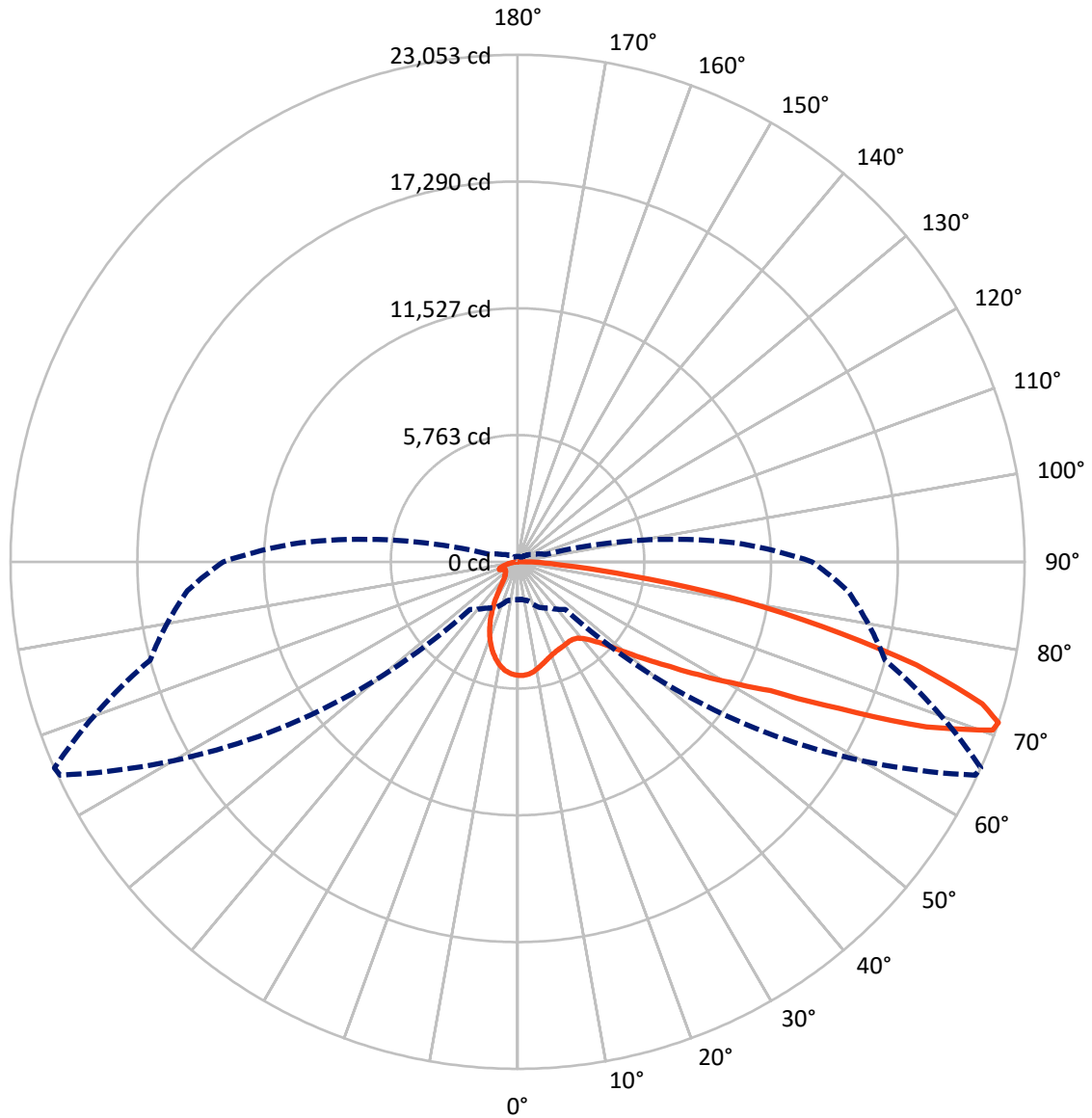
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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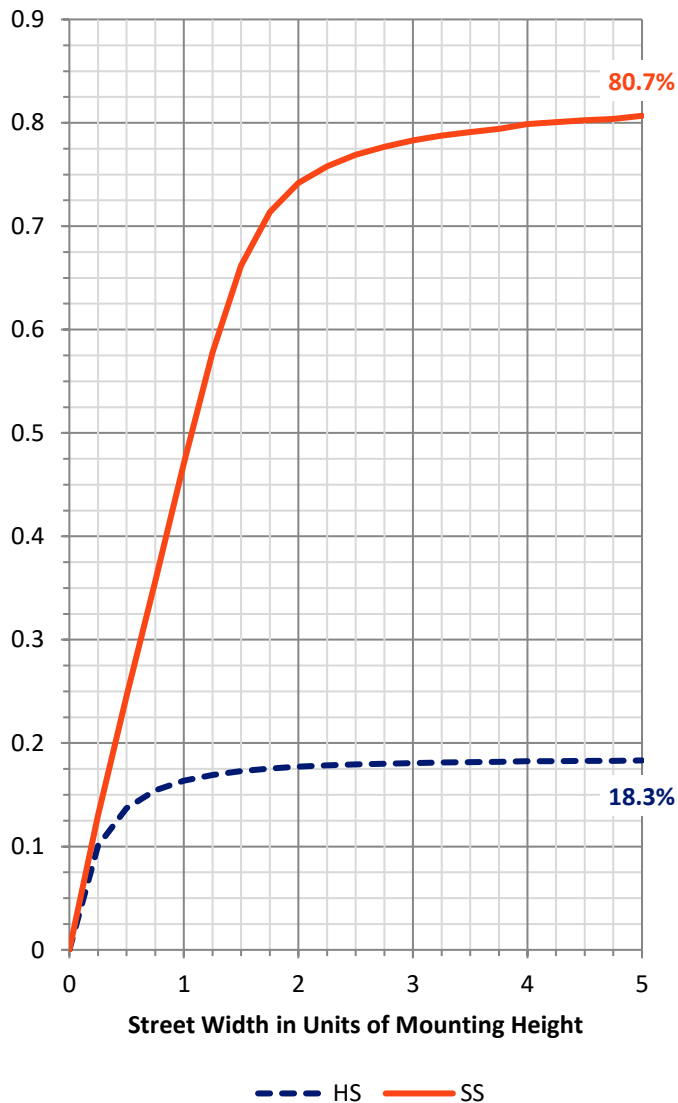
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4177.3	0.0	4177.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18362.7	0.0	18362.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	22540.0	0.0	22540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.5	2.0
10°-20°	1090.1	4.8
20°-30°	1464.3	6.5
30°-40°	1926.2	8.5
40°-50°	2802.2	12.4
50°-60°	4377.3	19.4
60°-70°	5483.3	24.3
70°-80°	4182.5	18.6
80°-90°	759.5	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°	22540.0	100.0
0°-180°	22540.0	100.0

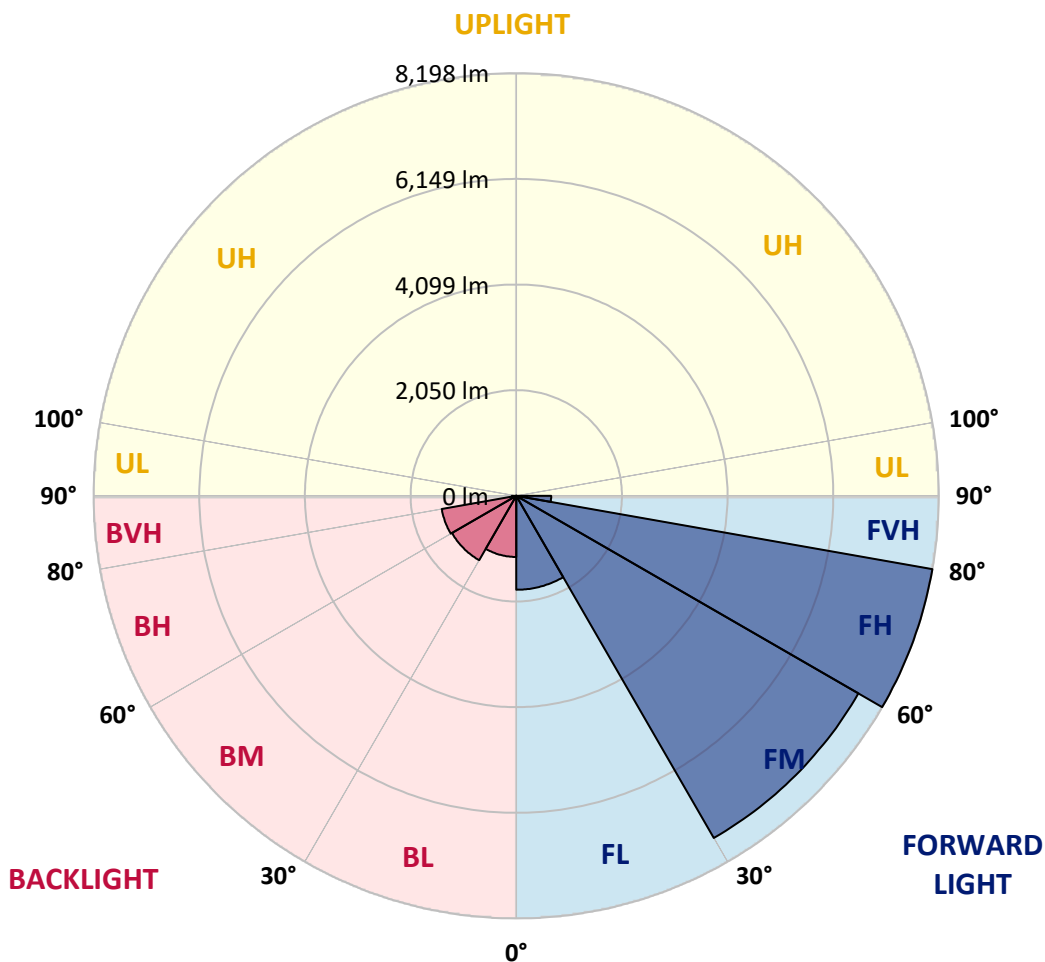


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.7	8.1			
FM (30°-60°)	7664.7	34.0			
FH (60°-80°)	8198.0	36.4			G4/12000
FVH (80°-90°)	677.3	3.0			G4/750
BL (0°-30°)	1186.2	5.3	B3/2500		
BM (30°-60°)	1441.0	6.4	B2/2500		
BH (60°-80°)	1467.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	82.2	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°	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5
2.5°	5067.8	5060.0	5083.3	5107.4	5116.8	5132.3	5155.7	5168.9	5168.1	5170.5	5162.7
5°	4731.6	4721.4	4768.1	4806.3	4879.4	4961.9	5062.3	5133.9	5135.5	5175.9	5186.8
7.5°	4413.3	4406.3	4460.0	4521.4	4606.3	4732.3	4895.0	5049.1	5058.4	5168.1	5206.3
10°	4158.0	4156.5	4208.6	4275.5	4374.4	4515.2	4702.0	4927.7	4941.7	5130.8	5209.4
12.5°	3958.8	3961.9	4007.0	4083.3	4187.6	4334.7	4537.0	4791.5	4814.1	5071.6	5191.5
15°	3811.7	3824.2	3860.7	3937.8	4040.5	4189.9	4397.7	4665.4	4699.7	5005.5	5181.4
17.5°	3727.7	3741.7	3767.4	3831.2	3927.7	4071.6	4268.5	4561.9	4593.0	4954.9	5182.2
20°	3702.8	3714.4	3729.2	3768.1	3849.8	3980.6	4166.6	4468.5	4502.0	4914.4	5189.9
22.5°	3751.8	3760.4	3761.9	3758.8	3808.6	3915.2	4092.6	4400.0	4435.8	4888.0	5195.4
25°	3856.8	3868.5	3860.0	3831.2	3814.8	3880.2	4054.5	4354.9	4390.7	4868.5	5184.5
27.5°	4014.8	4016.4	4009.4	3972.0	3895.0	3884.1	4042.8	4328.4	4362.7	4846.0	5161.9
30°	4229.6	4239.7	4227.3	4176.7	4050.6	3946.3	4056.9	4302.8	4333.9	4817.2	5125.3
32.5°	4481.0	4505.9	4505.1	4452.2	4271.6	4085.6	4114.4	4287.2	4311.3	4786.8	5081.0
35°	4741.7	4775.9	4839.7	4817.2	4593.8	4305.9	4224.9	4312.1	4328.4	4782.9	5049.9
37.5°	5012.5	5046.7	5178.3	5239.0	4977.5	4621.1	4399.3	4400.0	4407.8	4830.4	5047.5
40°	5295.8	5332.4	5530.0	5688.0	5474.8	5020.3	4680.2	4583.7	4575.1	4947.1	5093.4
42.5°	5692.7	5725.4	5962.7	6164.3	6026.5	5531.6	5068.5	4867.0	4849.1	5175.9	5240.5
45°	6194.6	6222.6	6474.8	6690.3	6619.5	6115.2	5556.5	5256.9	5253.8	5557.3	5538.6
47.5°	6791.5	6813.3	7039.8	7248.3	7274.0	6786.8	6169.7	5858.4	5807.8	6080.2	6000.1
50°	7413.3	7437.4	7591.5	7815.6	8006.3	7685.7	6958.8	6595.4	6527.7	6770.5	6653.8
52.5°	7825.0	7856.9	7990.7	8274.8	8829.7	8670.9	7891.9	7488.8	7386.1	7607.1	7517.6
55°	7641.3	7712.9	7917.6	8372.8	9488.0	10176.0	9042.9	8530.8	8414.9	8598.5	8545.6
57.5°	6806.3	6904.4	7183.7	7886.5	9580.6	11502.1	10783.0	9758.1	9676.4	9623.4	9647.6
60°	5280.2	5374.4	5720.7	6636.6	8935.5	12470.2	13401.7	11270.9	11152.6	10652.3	10674.0
62.5°	3737.0	3689.5	3926.9	4596.9	7260.8	12583.8	16381.5	13294.3	12905.2	11738.6	11642.9
65°	2849.8	2838.9	2945.6	3158.8	4397.7	11224.2	18156.6	16695.1	16087.3	13016.5	12790.8
67.5°	2341.7	2322.2	2427.3	2737.8	2831.9	7241.3	18195.5	20640.7	20043.8	14607.2	14118.4
70°	1925.3	1903.5	2001.6	2402.4	2617.1	3672.4	15313.8	22951.2	22919.3	16621.2	15120.8
71°	1726.1	1710.5	1828.0	2273.2	2571.2	3060.7	13221.9	22957.4	23053.2	17302.9	15061.6
72.5°	1405.5	1410.9	1535.4	2023.4	2537.0	2702.8	9717.6	21887.4	22089.7	17952.7	14523.9
75°	933.9	938.5	1102.0	1556.4	2459.9	2644.4	5340.9	18365.9	18737.9	17563.6	13253.1
77.5°	627.2	625.7	737.0	1067.7	2143.2	2644.4	3131.5	13736.3	14144.9	13975.2	10217.2
80°	431.9	428.8	507.4	737.0	1622.6	2676.3	2421.0	9626.6	9750.3	7547.2	4152.6
82.5°	264.6	266.9	331.5	520.6	1104.3	2408.6	2285.6	5249.1	5114.4	2116.8	1037.4
85°	151.8	151.0	211.7	352.5	709.0	2032.7	2228.8	2259.2	2072.4	637.4	375.1
87.5°	54.5	58.4	113.6	195.3	406.2	1415.6	1891.1	1175.1	1059.2	287.9	169.7
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°	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5	5163.5
2.5°	5157.3	5161.9	5156.5	5125.3	5098.9	5056.1	5032.0	4998.5	4988.4	4983.7	4996.2
5°	5176.7	5178.3	5132.3	5050.6	4958.8	4850.6	4772.8	4677.1	4632.0	4612.5	4625.0
7.5°	5194.6	5187.6	5087.2	4930.8	4761.1	4572.8	4405.5	4252.2	4162.7	4126.1	4129.2
10°	5196.9	5167.4	5006.3	4764.3	4501.2	4224.9	3968.1	3731.6	3582.1	3484.9	3514.4
12.5°	5172.8	5123.0	4887.2	4548.7	4183.7	3807.0	3460.0	3105.1	2891.9	2793.0	2796.1
15°	5154.1	5063.9	4740.9	4295.0	3804.7	3305.9	2831.9	2414.8	2187.6	2086.4	2038.9
17.5°	5138.6	5000.1	4571.3	4009.4	3357.2	2724.5	2154.9	1782.9	1658.4	1628.8	1616.4
20°	5116.8	4932.3	4382.1	3678.6	2847.5	2074.0	1573.6	1389.9	1390.7	1424.9	1429.6
22.5°	5086.4	4855.3	4180.6	3307.4	2300.4	1510.5	1233.5	1180.6	1234.3	1299.6	1311.3
25°	5041.3	4764.3	3956.5	2897.3	1754.1	1161.1	1053.7	1051.4	1116.7	1185.2	1195.3
27.5°	4977.5	4645.2	3707.4	2456.8	1292.6	986.8	944.0	960.3	1008.6	1058.4	1062.3
30°	4891.9	4506.7	3432.7	1992.2	1013.2	878.6	873.9	888.7	918.3	953.3	956.4
32.5°	4797.7	4365.8	3139.3	1542.4	867.7	820.2	824.9	831.9	845.9	859.9	863.0
35°	4712.1	4221.8	2838.9	1172.0	798.5	782.1	779.0	777.4	779.0	774.3	775.1
37.5°	4656.9	4102.8	2526.1	933.1	758.8	748.6	739.3	727.6	714.4	706.6	708.2
40°	4636.6	4014.0	2209.4	806.2	726.1	719.1	701.2	676.3	660.7	656.0	656.0
42.5°	4691.1	3968.1	1903.5	742.4	698.8	687.2	657.6	628.8	617.1	616.3	615.6
45°	4857.6	3986.8	1612.5	707.4	673.9	651.4	612.5	588.3	580.6	582.1	581.3
47.5°	5156.5	4104.3	1363.4	684.1	649.0	619.5	575.9	556.4	547.1	547.1	547.9
50°	5664.7	4379.0	1165.0	664.6	628.0	589.9	549.4	525.3	512.8	512.1	512.1
52.5°	6404.7	4870.9	1041.3	648.3	604.7	563.4	523.0	492.6	477.8	474.7	473.2
55°	7332.4	5575.9	1007.0	637.4	573.5	534.6	491.1	460.7	444.4	437.4	436.6
57.5°	8369.7	6433.5	1074.7	624.1	541.6	500.4	456.0	427.2	410.1	401.6	400.8
60°	9419.6	7369.7	1351.0	605.5	515.2	463.0	420.2	393.8	376.7	367.3	365.8
62.5°	10470.9	8356.5	1915.2	603.9	496.5	427.2	383.7	361.1	344.8	334.6	332.3
65°	11656.9	9436.7	2556.4	645.1	490.3	394.6	346.3	328.4	314.4	305.1	304.3
67.5°	13018.8	10656.1	2495.0	730.0	511.3	365.0	311.3	297.3	287.2	279.4	278.6
70°	13657.7	10465.5	1551.0	789.9	540.9	336.2	277.8	267.7	259.9	254.5	252.1
71°	13390.0	9937.1	1300.4	782.9	537.7	323.7	264.6	256.8	249.0	244.4	242.0
72.5°	12660.1	9062.4	1084.8	728.4	502.7	301.2	247.5	239.7	232.7	227.2	225.7
75°	11360.4	8093.5	868.5	582.1	400.8	254.5	217.1	208.6	203.1	200.0	196.9
77.5°	8351.1	5775.9	671.6	459.9	294.9	207.8	185.2	179.0	173.5	168.9	166.5
80°	3199.3	2237.4	452.1	343.2	216.3	164.2	149.4	146.3	140.9	137.7	137.7
82.5°	861.5	668.5	241.2	207.8	144.7	119.8	114.4	112.8	108.2	101.9	102.7
85°	348.6	294.9	135.4	114.4	88.7	70.8	77.0	77.8	72.4	64.6	65.4
87.5°	153.3	125.3	75.5	50.6	38.9	27.2	35.0	35.0	31.9	26.5	24.1
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)