

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: P383081

Luminaire Tested: **GLEON-SA4B-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383081
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-SA4B-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 21037.1 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

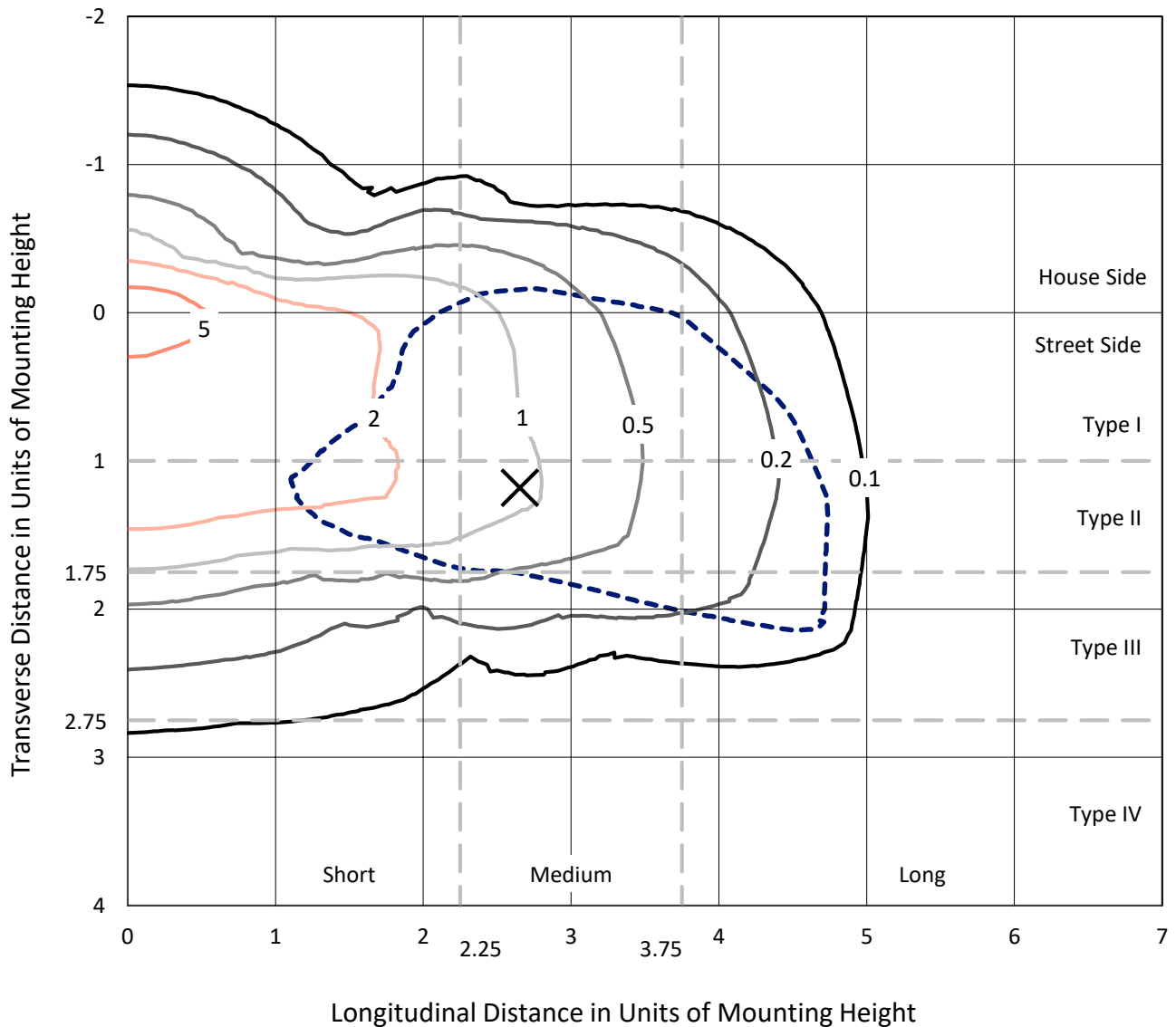
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

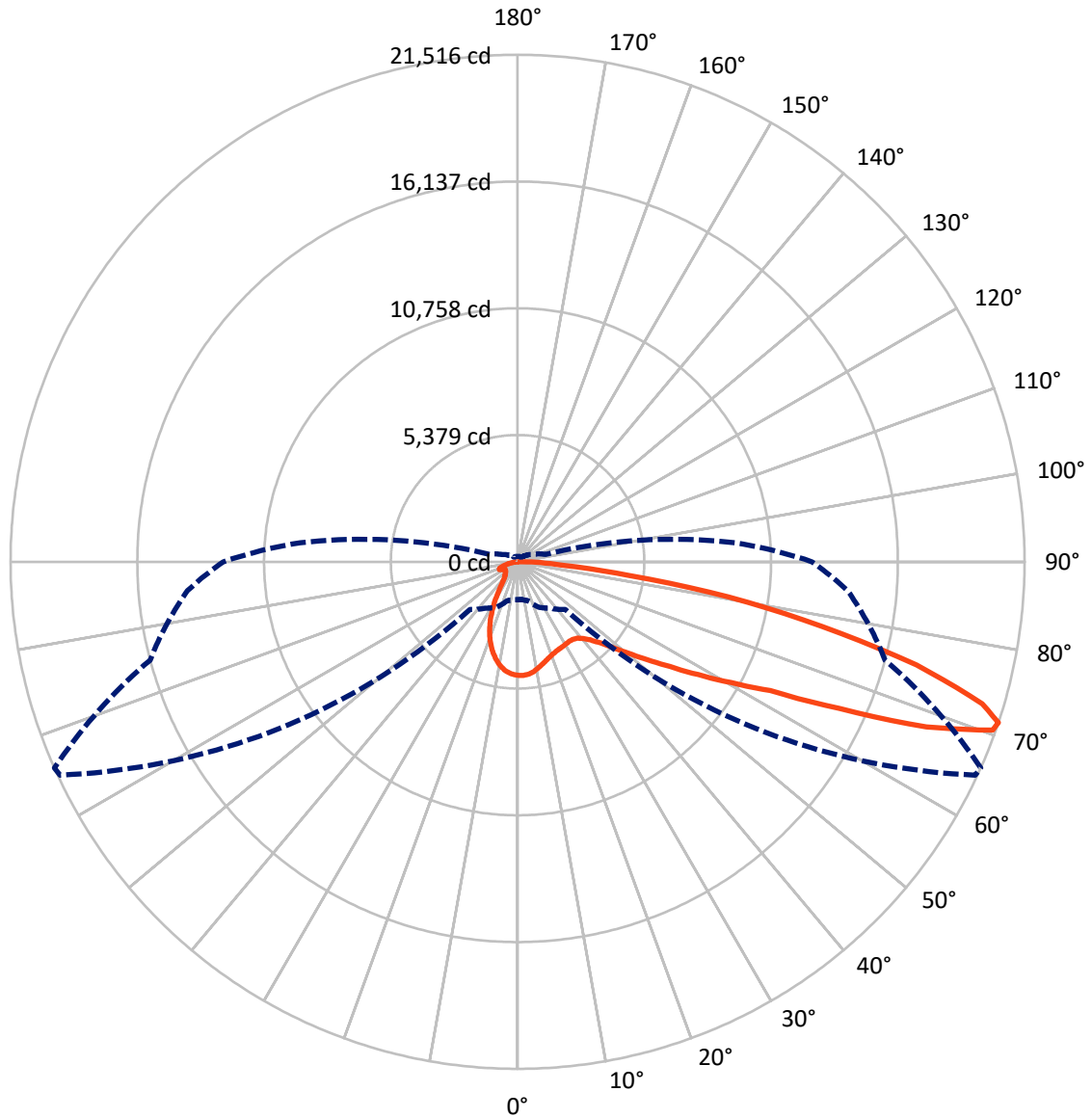
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type 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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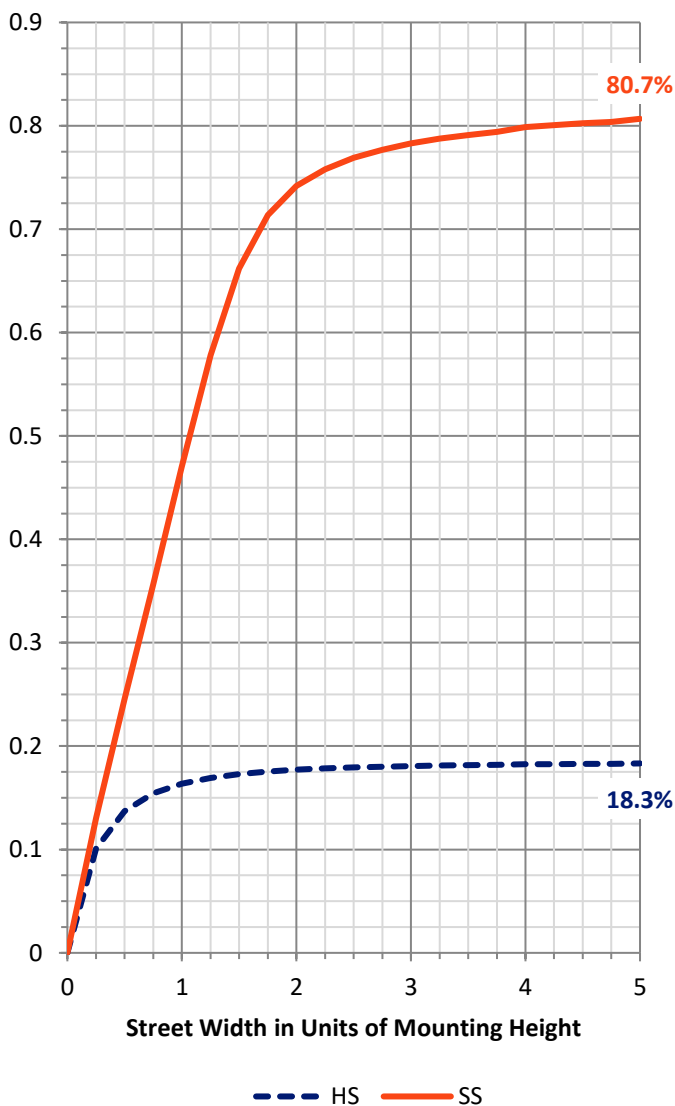
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3898.8	0.0	3898.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	17138.4	0.0	17138.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	21037.1	0.0	21037.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	2.0
10°-20°	1017.4	4.8
20°-30°	1366.7	6.5
30°-40°	1797.8	8.5
40°-50°	2615.3	12.4
50°-60°	4085.5	19.4
60°-70°	5117.7	24.3
70°-80°	3903.7	18.6
80°-90°	708.9	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°	21037.1	100.0
0°-180°	21037.1	100.0

Coefficient of Utilization

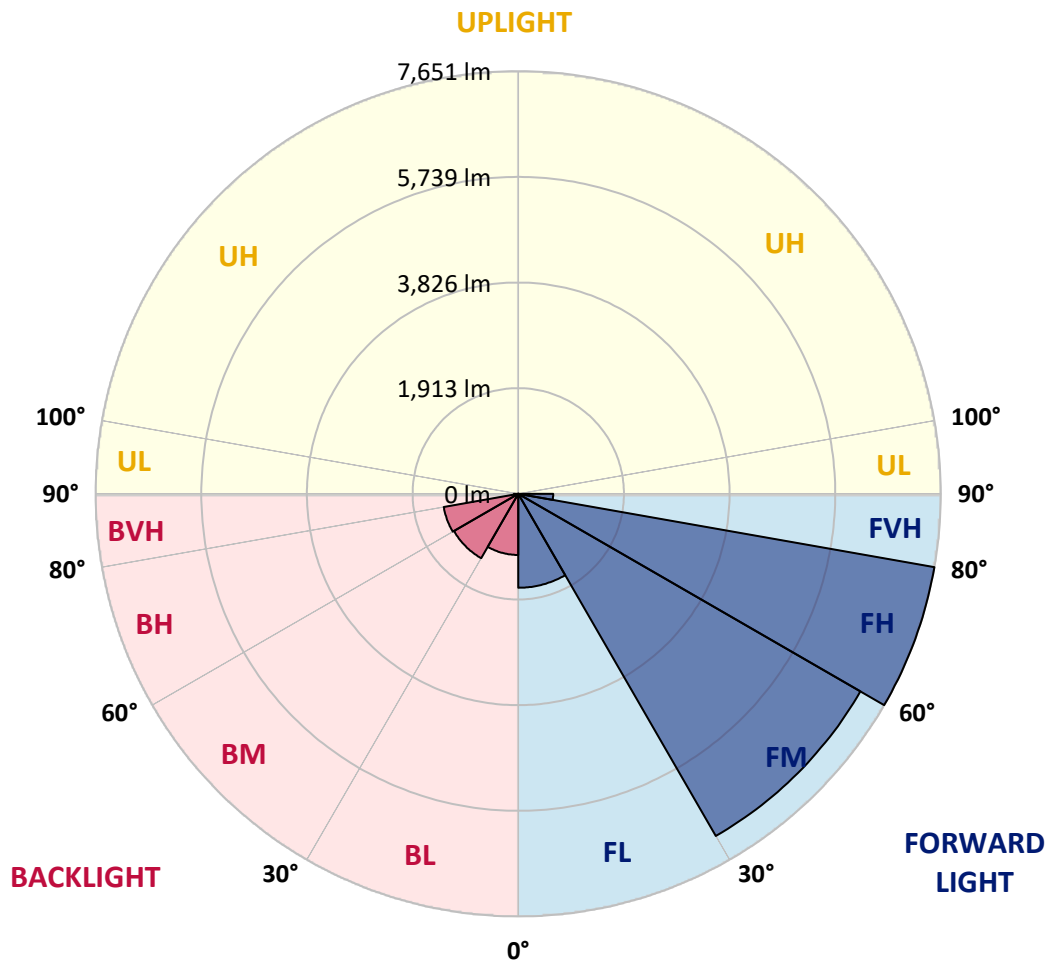


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.1	8.1			
FM (30°-60°)	7153.7	34.0			
FH (60°-80°)	7651.4	36.4			G4/12000
FVH (80°-90°)	632.1	3.0			G4/750
BL (0°-30°)	1107.1	5.3	B3/2500		
BM (30°-60°)	1344.9	6.4	B2/2500		
BH (60°-80°)	1369.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	76.7	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°	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2
2.5°	4729.8	4722.6	4744.4	4766.9	4775.6	4790.1	4811.9	4824.3	4823.6	4825.7	4818.4
5°	4416.1	4406.7	4450.2	4485.8	4554.1	4631.1	4724.8	4791.6	4793.1	4830.8	4841.0
7.5°	4119.0	4112.5	4162.6	4220.0	4299.2	4416.8	4568.6	4712.4	4721.2	4823.6	4859.1
10°	3880.8	3879.3	3928.0	3990.5	4082.7	4214.1	4388.5	4599.1	4612.2	4788.7	4862.0
12.5°	3694.8	3697.8	3739.9	3811.1	3908.4	4045.6	4234.5	4472.0	4493.0	4733.5	4845.4
15°	3557.6	3569.2	3603.3	3675.2	3771.1	3910.5	4104.5	4354.3	4386.3	4671.7	4835.9
17.5°	3479.1	3492.2	3516.1	3575.7	3665.8	3800.2	3983.9	4257.7	4286.8	4624.6	4836.6
20°	3455.9	3466.8	3480.5	3516.9	3593.2	3715.2	3888.7	4170.6	4201.8	4586.8	4843.9
22.5°	3501.6	3509.6	3511.1	3508.2	3554.7	3654.2	3819.8	4106.6	4140.1	4562.1	4849.0
25°	3599.7	3610.6	3602.6	3575.7	3560.5	3621.5	3784.2	4064.5	4098.0	4543.9	4838.8
27.5°	3747.2	3748.5	3742.0	3707.2	3635.3	3625.1	3773.3	4039.8	4071.8	4522.8	4817.8
30°	3947.6	3957.0	3945.4	3898.2	3780.6	3683.2	3786.4	4015.9	4045.0	4496.0	4783.6
32.5°	4182.2	4205.5	4204.7	4155.4	3986.8	3813.2	3840.1	4001.4	4023.9	4467.7	4742.2
35°	4425.5	4457.5	4517.1	4496.0	4287.5	4018.8	3943.2	4024.6	4039.8	4464.1	4713.2
37.5°	4678.3	4710.3	4833.0	4889.7	4645.6	4313.0	4106.0	4106.6	4113.9	4508.3	4711.0
40°	4942.7	4976.8	5161.3	5308.7	5109.7	4685.6	4368.1	4278.0	4270.1	4617.3	4753.9
42.5°	5313.1	5343.6	5565.2	5753.2	5624.7	5162.7	4730.6	4542.5	4525.7	4830.8	4891.1
45°	5781.6	5807.7	6043.0	6244.3	6178.2	5707.5	5186.0	4906.4	4903.5	5186.8	5169.3
47.5°	6338.7	6359.0	6570.4	6765.1	6789.0	6334.3	5758.4	5467.8	5420.6	5674.8	5600.0
50°	6919.0	6941.5	7085.4	7294.6	7472.5	7173.2	6494.8	6155.7	6092.4	6319.1	6210.2
52.5°	7303.2	7333.0	7458.0	7723.1	8240.9	8092.7	7365.7	6989.5	6893.6	7099.9	7016.3
55°	7131.8	7198.6	7389.7	7814.6	8855.4	9497.5	8439.9	7962.0	7853.8	8025.2	7975.8
57.5°	6352.5	6444.0	6704.7	7360.6	8941.8	10735.2	10064.1	9107.5	9031.2	8981.8	9004.3
60°	4928.2	5016.0	5339.3	6194.1	8339.7	11638.8	12508.2	10519.4	10409.0	9942.0	9962.3
62.5°	3487.8	3443.6	3665.1	4290.4	6776.6	11744.8	15289.2	12407.9	12044.7	10955.9	10866.6
65°	2659.8	2649.7	2749.2	2948.2	4104.5	10475.9	16946.0	15582.0	15014.7	12148.6	11938.0
67.5°	2185.5	2167.3	2265.4	2555.2	2643.1	6758.5	16982.3	19264.5	18707.3	13633.2	13177.1
70°	1797.0	1776.6	1868.1	2242.1	2442.6	3427.5	14292.7	21420.9	21391.1	15513.0	14112.6
71°	1611.0	1596.5	1706.1	2121.6	2399.8	2856.7	12340.4	21426.7	21516.0	16149.2	14057.4
72.5°	1311.7	1316.8	1433.1	1888.4	2367.8	2522.5	9069.6	20428.0	20616.9	16755.7	13555.5
75°	871.6	875.9	1028.5	1452.7	2295.9	2468.0	4984.8	17141.4	17488.6	16392.5	12369.4
77.5°	585.4	584.0	687.9	996.6	2000.3	2468.0	2922.7	12820.4	13201.8	13043.4	9536.0
80°	403.1	400.2	473.6	687.9	1514.4	2497.9	2259.7	8984.7	9100.2	7044.0	3875.7
82.5°	247.0	249.1	309.5	485.9	1030.7	2248.0	2133.2	4899.1	4773.4	1975.6	968.2
85°	141.6	140.9	197.6	329.0	661.7	1897.2	2080.2	2108.6	1934.2	594.9	350.1
87.5°	50.9	54.5	106.0	182.3	379.1	1321.2	1765.0	1096.8	988.6	268.8	158.4
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°	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2	4819.2
2.5°	4813.4	4817.8	4812.7	4783.6	4758.9	4718.9	4696.5	4665.2	4655.8	4651.4	4663.0
5°	4831.6	4833.0	4790.1	4713.9	4628.2	4527.2	4454.6	4365.2	4323.1	4305.0	4316.6
7.5°	4848.2	4841.7	4748.0	4602.0	4443.7	4267.9	4111.8	3968.7	3885.1	3851.0	3853.9
10°	4850.5	4822.8	4672.5	4446.6	4201.1	3943.2	3703.6	3482.8	3343.3	3252.5	3280.1
12.5°	4827.9	4781.4	4561.3	4245.4	3904.8	3553.2	3229.3	2898.0	2699.1	2606.8	2609.7
15°	4810.5	4726.2	4424.8	4008.6	3551.1	3085.5	2643.1	2253.8	2041.7	1947.3	1903.0
17.5°	4796.0	4666.7	4266.5	3742.0	3133.4	2542.8	2011.2	1664.0	1547.8	1520.2	1508.5
20°	4775.6	4603.5	4090.0	3433.4	2657.6	1935.7	1468.7	1297.2	1297.9	1329.9	1334.3
22.5°	4747.3	4531.6	3901.9	3086.9	2147.0	1409.8	1151.2	1101.8	1152.0	1213.0	1223.9
25°	4705.2	4446.6	3692.7	2704.1	1637.2	1083.7	983.4	981.3	1042.3	1106.2	1115.6
27.5°	4645.6	4335.4	3460.2	2293.0	1206.4	921.0	881.1	896.3	941.3	987.8	991.4
30°	4565.7	4206.2	3203.9	1859.4	945.7	820.0	815.7	829.4	857.0	889.7	892.7
32.5°	4477.9	4074.7	2930.0	1439.6	809.9	765.5	769.9	776.4	789.5	802.6	805.5
35°	4397.9	3940.4	2649.7	1093.8	745.2	730.0	727.1	725.6	727.1	722.7	723.4
37.5°	4346.3	3829.2	2357.7	870.9	708.2	698.8	690.0	679.1	666.8	659.5	660.9
40°	4327.5	3746.4	2062.1	752.5	677.7	671.1	654.4	631.2	616.7	612.3	612.3
42.5°	4378.3	3703.6	1776.6	692.9	652.3	641.4	613.7	586.9	576.0	575.2	574.5
45°	4533.7	3721.0	1504.9	660.2	629.0	607.9	571.6	549.1	541.9	543.3	542.5
47.5°	4812.7	3830.7	1272.5	638.5	605.8	578.1	537.5	519.3	510.6	510.6	511.3
50°	5287.0	4087.1	1087.3	620.3	586.1	550.5	512.8	490.3	478.6	477.9	477.9
52.5°	5977.7	4546.1	971.8	605.0	564.3	525.9	488.1	459.8	445.9	443.0	441.6
55°	6843.5	5204.2	939.8	594.9	535.3	499.0	458.3	430.0	414.7	408.2	407.5
57.5°	7811.7	6004.6	1003.1	582.5	505.6	467.0	425.6	398.8	382.8	374.8	374.0
60°	8791.5	6878.4	1260.9	565.1	480.9	432.1	392.2	367.5	351.6	342.8	341.4
62.5°	9772.8	7799.3	1787.5	563.6	463.4	398.8	358.1	337.0	321.8	312.3	310.1
65°	10879.7	8807.5	2386.0	602.2	457.6	368.2	323.2	306.5	293.4	284.7	284.0
67.5°	12150.7	9945.7	2328.6	681.3	477.2	340.7	290.5	277.4	268.0	260.7	260.0
70°	12747.1	9767.6	1447.5	737.2	504.8	313.7	259.3	249.8	242.6	237.5	235.3
71°	12497.3	9274.5	1213.7	730.7	501.9	302.2	247.0	239.7	232.4	228.0	225.9
72.5°	11815.9	8458.1	1012.5	679.8	469.2	281.0	230.9	223.7	217.1	212.1	210.6
75°	10603.0	7553.8	810.5	543.3	374.0	237.5	202.6	194.7	189.6	186.7	183.8
77.5°	7794.3	5390.9	626.8	429.3	275.3	193.9	172.9	167.0	162.0	157.6	155.5
80°	2986.0	2088.2	422.0	320.3	202.0	153.2	139.5	136.6	131.4	128.6	128.6
82.5°	804.0	624.0	225.2	193.9	135.1	111.9	106.8	105.4	101.0	95.1	95.9
85°	325.4	275.3	126.4	106.8	82.8	66.1	71.9	72.7	67.5	60.3	61.0
87.5°	143.1	116.9	70.4	47.2	36.3	25.4	32.7	32.7	29.8	24.7	22.5
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)