

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: P382646

Luminaire Tested: **GLEON-SA0B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38398.4 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 419
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

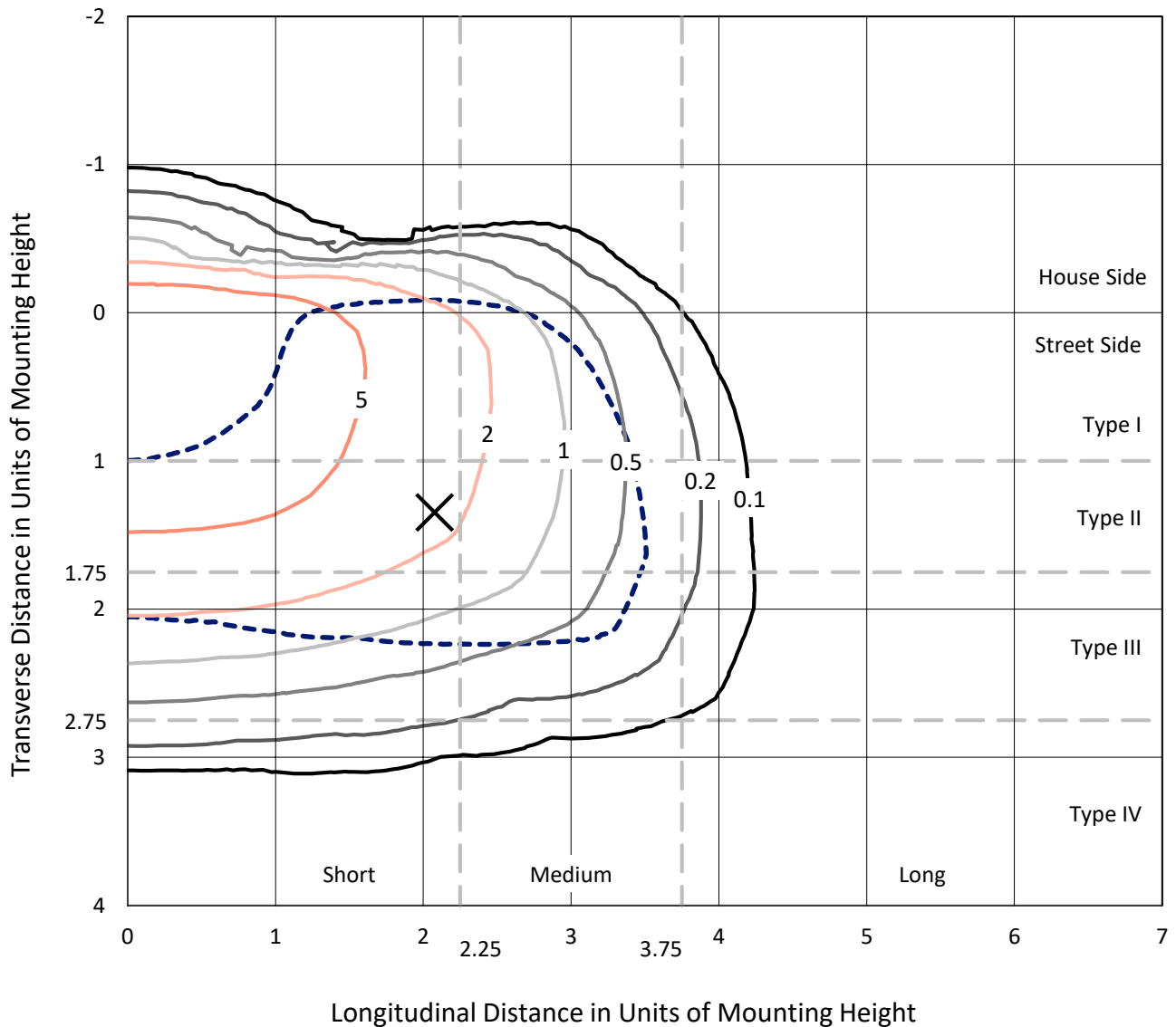




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Iso-Footcandle Lines of Horizontal Illumination

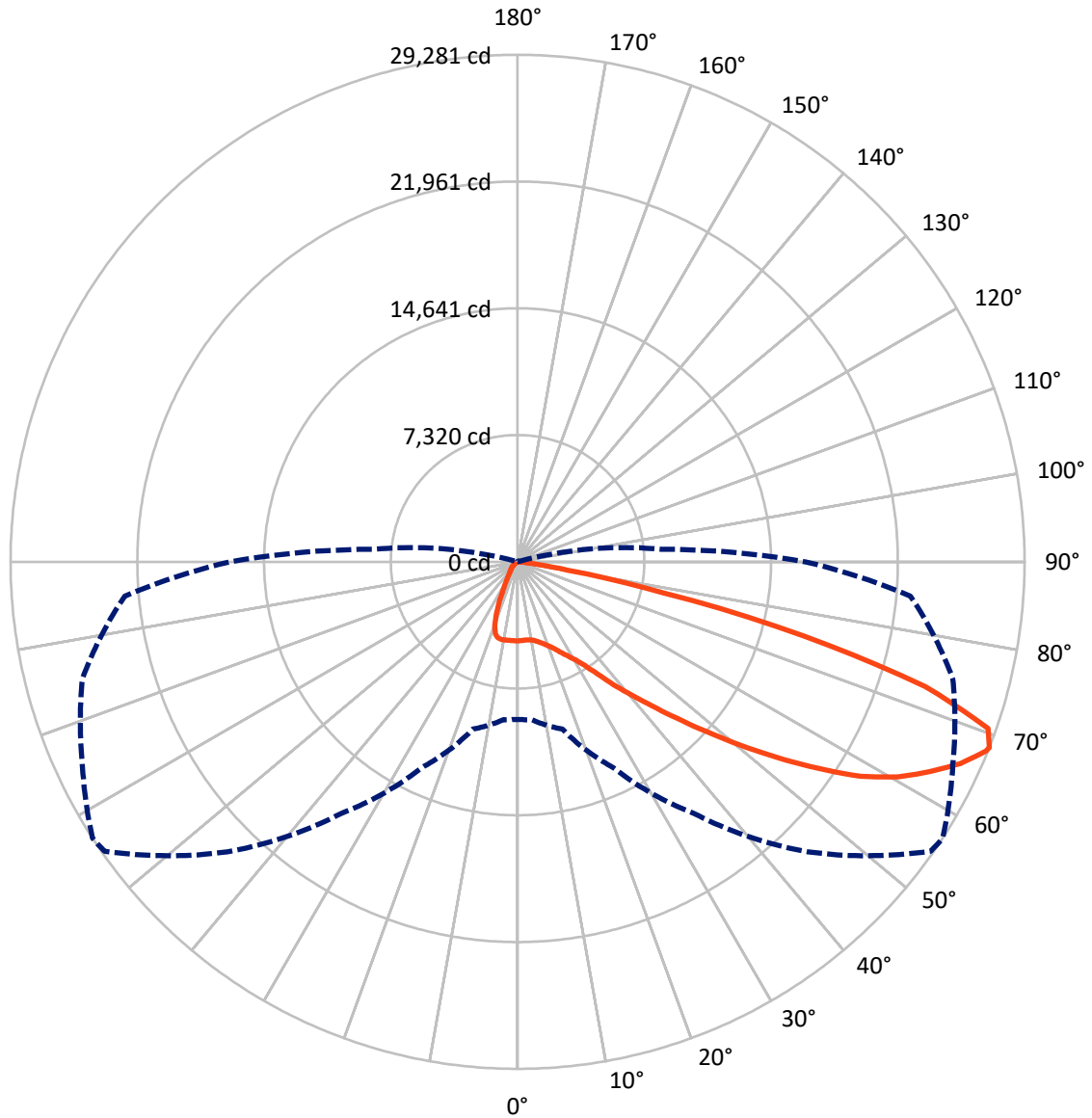
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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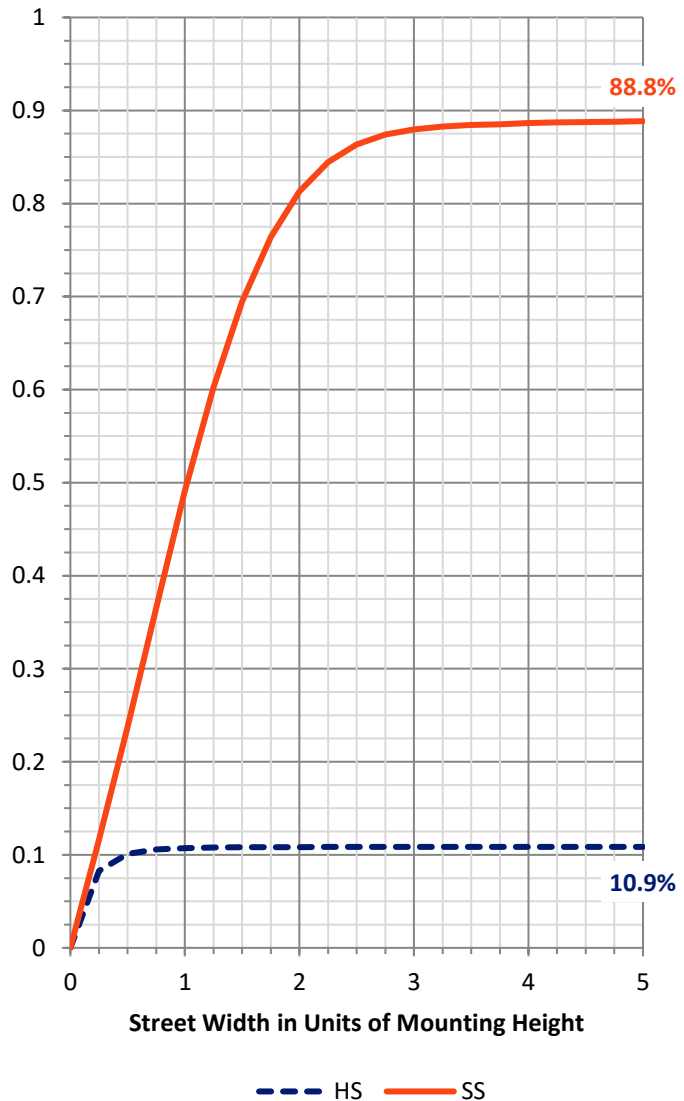
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4210.6	0.0	4210.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	34187.8	0.0	34187.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	38398.4	0.0	38398.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	1.1
10°-20°	1183.3	3.1
20°-30°	2041.2	5.3
30°-40°	3523.1	9.2
40°-50°	6026.3	15.7
50°-60°	9641.5	25.1
60°-70°	11139.7	29.0
70°-80°	4256.6	11.1
80°-90°	159.6	0.4
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°	38398.4	100.0
0°-180°	38398.4	100.0

Coefficient of Utilization

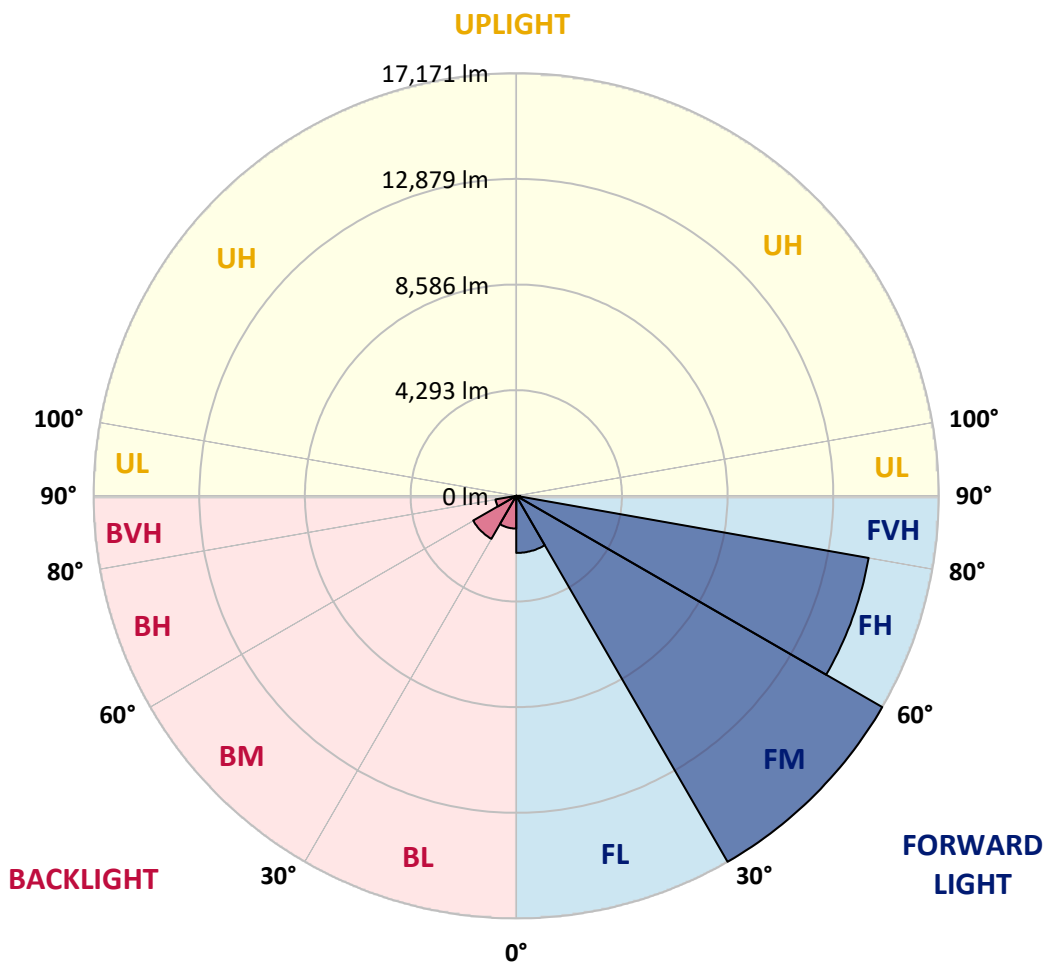


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.8	6.0			
FM (30°-60°)	17171.4	44.7			
FH (60°-80°)	14538.9	37.9			G5
FVH (80°-90°)	156.7	0.4			G2/225
BL (0°-30°)	1330.7	3.5	B3/2500		
BM (30°-60°)	2019.5	5.3	B2/2500		
BH (60°-80°)	857.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7
2.5°	4455.6	4475.6	4490.2	4499.2	4510.1	4533.7	4540.9	4551.8	4557.3	4557.3	4570.0
5°	4279.5	4301.3	4332.2	4357.6	4408.5	4473.8	4521.0	4539.2	4571.8	4600.9	4617.2
7.5°	4116.1	4141.5	4177.8	4237.7	4324.9	4430.2	4528.3	4553.7	4617.2	4679.0	4709.8
10°	4010.8	4030.7	4077.9	4163.3	4277.7	4424.8	4562.7	4593.6	4702.5	4806.0	4864.2
12.5°	3974.4	3992.6	4041.6	4137.8	4279.5	4452.0	4642.6	4688.0	4847.8	4998.5	5080.2
15°	4027.1	4030.7	4083.4	4174.2	4314.0	4519.1	4775.2	4829.6	5031.2	5227.3	5328.9
17.5°	4230.4	4214.1	4241.3	4281.3	4392.1	4608.1	4914.9	4996.7	5265.4	5495.9	5592.2
20°	4738.9	4738.9	4677.1	4568.2	4570.0	4746.1	5103.8	5196.4	5525.0	5791.9	5879.1
22.5°	5608.6	5592.2	5468.7	5201.9	4956.8	4984.0	5334.4	5454.2	5837.4	6122.4	6151.5
25°	6654.4	6634.4	6443.8	6067.9	5643.0	5368.9	5646.7	5784.6	6209.5	6462.0	6402.0
27.5°	7761.9	7745.5	7556.7	7090.1	6485.5	5982.6	6018.9	6149.6	6589.0	6837.7	6647.2
30°	8835.0	8840.4	8653.4	8174.1	7489.5	6765.1	6490.9	6567.2	6957.6	7210.0	6937.6
32.5°	9855.4	9862.7	9701.0	9165.4	8526.4	7674.7	7144.6	7124.7	7386.1	7634.9	7322.5
35°	10765.1	10783.1	10672.5	10256.6	9579.4	8687.9	7992.5	7945.3	7994.4	8275.8	7912.7
37.5°	11642.0	11652.9	11569.4	11218.9	10652.4	9800.9	9063.8	8996.6	8891.2	9107.4	8691.5
40°	12602.4	12575.2	12479.0	12161.3	11674.6	11030.1	10214.9	10098.6	9915.3	10107.8	9715.6
42.5°	13495.8	13464.9	13481.3	13121.8	12711.4	12293.8	11556.7	11357.0	11249.8	11471.3	10972.0
45°	14612.3	14596.0	14650.5	14338.2	14006.0	13702.8	13094.5	12876.6	12829.5	13089.1	12491.7
47.5°	15714.5	15754.4	15923.3	15790.8	15656.4	15389.5	14723.1	14625.1	14654.2	14968.3	14095.0
50°	16633.2	16680.4	17143.5	17296.0	17490.2	17334.1	16665.9	16606.0	16720.3	17003.6	15819.8
52.5°	17297.7	17393.9	17969.6	18672.2	19380.3	19485.6	18819.3	18764.8	18919.2	18962.7	17152.5
55°	17758.9	17844.3	18496.1	19781.6	21223.2	21677.1	21263.1	21052.5	21023.4	20593.2	18554.2
57.5°	17840.6	17831.6	18768.4	20498.7	22668.5	23839.5	23578.1	23371.1	22775.6	22100.1	20161.0
60°	17379.4	17432.1	18519.7	20747.5	23576.3	25475.5	25495.4	25226.7	24299.0	23565.4	21718.8
62.5°	15959.6	16173.9	17272.3	20095.7	23565.4	26134.6	26900.8	26695.5	25586.2	24765.6	23298.5
65°	13657.3	13733.6	14781.2	17862.4	21973.1	25858.6	28166.3	28090.0	26746.4	25931.2	24110.1
67.5°	9973.4	9808.2	10908.4	14065.9	18603.2	24249.9	29074.1	29170.3	27641.5	26170.9	23245.8
68°	9101.9	9150.9	10007.9	13127.2	17720.8	23681.6	29134.0	29281.1	27730.5	26014.7	22773.7
70°	5425.1	5519.6	6283.9	9038.3	13481.3	20466.1	28487.7	28823.5	27200.4	24404.2	19698.0
72.5°	1385.3	1497.9	2220.5	4045.2	7700.2	14419.9	24048.4	24616.6	23616.2	19797.9	13297.8
75°	570.1	599.2	793.4	1332.7	2868.7	6496.4	15850.7	17067.2	16371.8	11852.6	6009.8
77.5°	394.0	414.0	510.2	739.0	1241.9	2202.4	7771.0	8649.8	7792.8	4045.2	1310.9
80°	283.3	299.6	365.0	492.0	713.6	786.1	2532.9	2928.7	2325.9	887.9	325.0
82.5°	168.9	181.6	272.4	350.4	433.9	375.9	630.0	715.3	673.6	441.2	145.2
85°	83.6	98.0	183.4	250.6	234.2	158.0	192.5	214.3	265.1	268.8	78.1
87.5°	5.4	10.9	107.1	150.7	65.4	36.3	56.3	69.0	94.5	132.6	32.7
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°	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7	4562.7
2.5°	4575.5	4577.3	4564.6	4559.1	4562.7	4540.9	4531.9	4535.5	4535.5	4540.9	4531.9
5°	4620.8	4620.8	4599.1	4570.0	4553.7	4511.9	4484.7	4477.4	4472.0	4468.4	4461.1
7.5°	4718.8	4707.9	4669.8	4606.3	4551.8	4461.1	4392.1	4355.7	4337.6	4330.3	4324.9
10°	4876.8	4856.9	4793.4	4675.3	4550.1	4388.4	4237.7	4130.6	4041.6	4005.4	3983.6
12.5°	5089.3	5060.3	4953.1	4757.0	4537.3	4239.6	3912.8	3598.7	3306.3	3186.5	3126.6
15°	5334.4	5292.7	5123.8	4826.0	4462.9	3903.7	3193.7	2643.6	2238.7	2086.2	2020.8
17.5°	5583.1	5528.6	5272.7	4869.6	4239.6	3208.2	2240.6	1692.2	1421.6	1349.1	1323.6
20°	5833.7	5753.8	5401.6	4836.9	3734.8	2313.1	1477.9	1236.4	1158.4	1136.6	1129.3
22.5°	6071.5	5948.1	5517.7	4709.8	2957.7	1552.4	1169.3	1093.0	1067.6	1054.9	1051.3
25°	6278.5	6106.0	5619.5	4317.6	2093.5	1172.9	1053.1	1027.7	995.0	971.4	973.2
27.5°	6472.8	6264.0	5681.2	3671.2	1396.2	1002.3	975.1	940.5	880.6	846.1	846.1
30°	6707.0	6474.6	5726.6	2825.2	1027.7	886.0	864.3	811.6	729.9	684.5	684.5
32.5°	7059.3	6794.1	5697.5	1982.7	851.5	779.0	728.1	655.4	566.5	522.9	521.1
35°	7598.5	7288.1	5490.5	1300.0	751.7	677.2	595.5	506.6	428.5	392.2	390.4
37.5°	8324.8	7948.9	5025.7	929.6	673.6	582.9	484.8	386.8	328.6	305.0	303.2
40°	9267.1	8717.0	4361.2	753.5	600.9	492.0	374.0	299.6	259.6	241.5	243.3
42.5°	10398.2	9539.4	3564.1	650.0	530.1	404.9	292.3	236.1	210.6	197.9	194.3
45°	11654.7	10351.1	2729.0	579.2	459.3	326.8	228.8	187.1	167.0	159.8	159.8
47.5°	13036.4	11140.8	1997.2	517.5	383.1	252.4	183.4	152.5	136.2	130.7	128.9
50°	14291.1	11689.2	1439.8	452.1	314.1	199.7	148.9	127.1	116.2	108.9	108.9
52.5°	15336.8	11861.7	1060.4	381.3	254.2	159.8	123.4	108.9	98.0	92.6	92.6
55°	16257.4	11790.9	788.0	314.1	205.1	130.7	105.3	92.6	83.6	78.1	78.1
57.5°	17139.8	11562.1	588.3	256.0	165.3	105.3	89.0	78.1	69.0	65.4	65.4
60°	17860.6	11180.8	437.5	207.0	132.6	85.3	74.4	63.5	56.3	50.9	50.9
62.5°	18445.2	10759.6	321.4	170.7	105.3	67.2	58.1	52.6	41.7	36.3	36.3
65°	18448.8	10060.5	241.5	141.6	81.7	52.6	43.6	41.7	27.2	21.8	19.9
67.5°	17114.4	8673.4	185.2	121.7	63.5	40.0	32.7	34.5	14.5	9.0	7.3
68°	16629.6	8321.1	174.3	119.8	59.9	38.1	30.8	34.5	12.7	7.3	5.4
70°	14020.4	6619.9	139.8	116.2	52.6	29.1	25.4	34.5	10.9	5.4	3.6
72.5°	8967.5	3841.9	103.5	92.6	40.0	21.8	16.3	30.8	10.9	3.6	1.8
75°	3816.6	1191.1	70.8	65.4	23.6	16.3	10.9	19.9	7.3	1.8	0.0
77.5°	804.3	268.8	41.7	40.0	16.3	10.9	7.3	5.4	1.8	0.0	0.0
80°	207.0	78.1	21.8	19.9	9.0	5.4	3.6	0.0	0.0	0.0	0.0
82.5°	65.4	30.8	12.7	9.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.7	18.2	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	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)