

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: P383027

Luminaire Tested: **GLEON-SA3D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22068.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

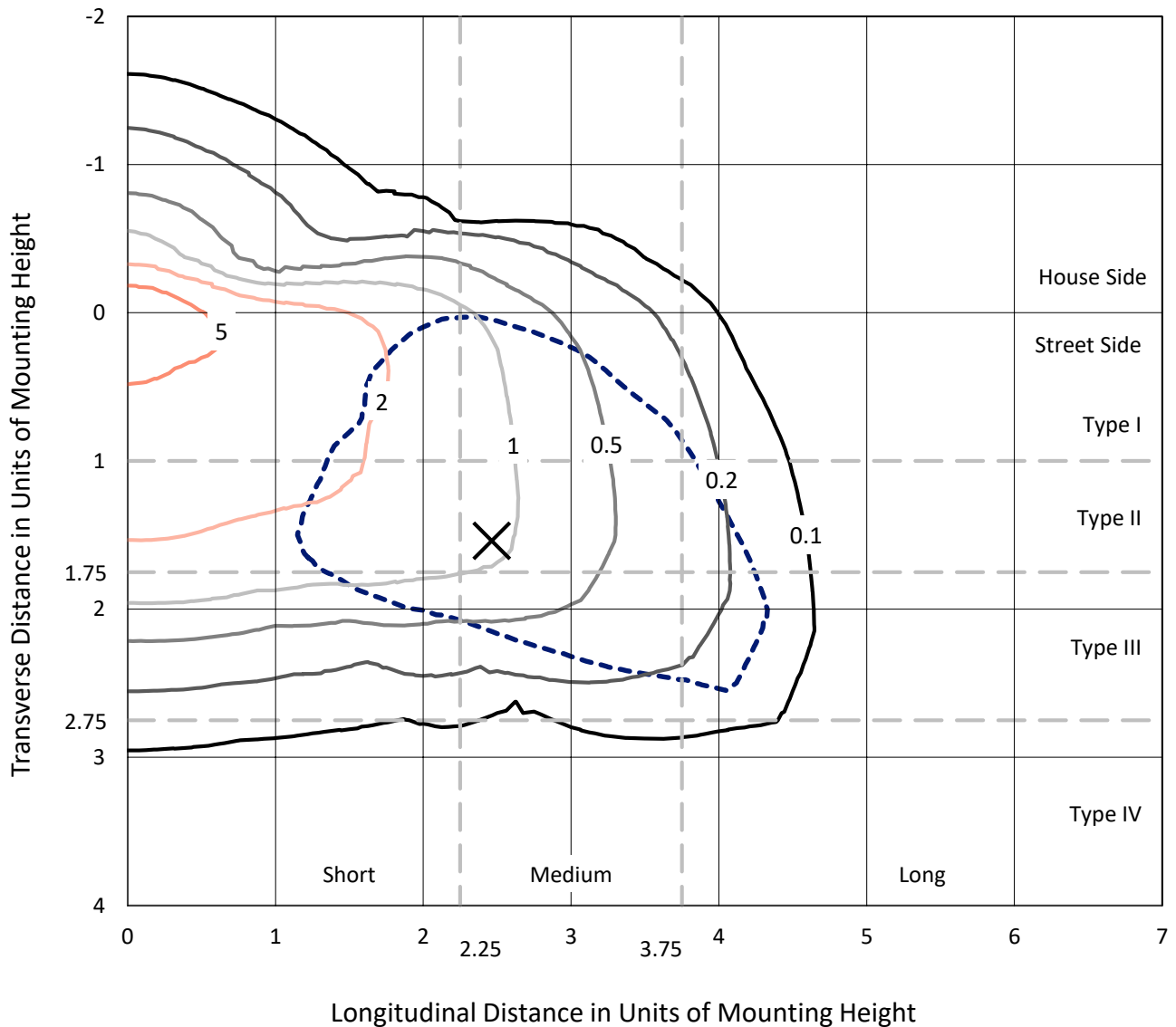
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

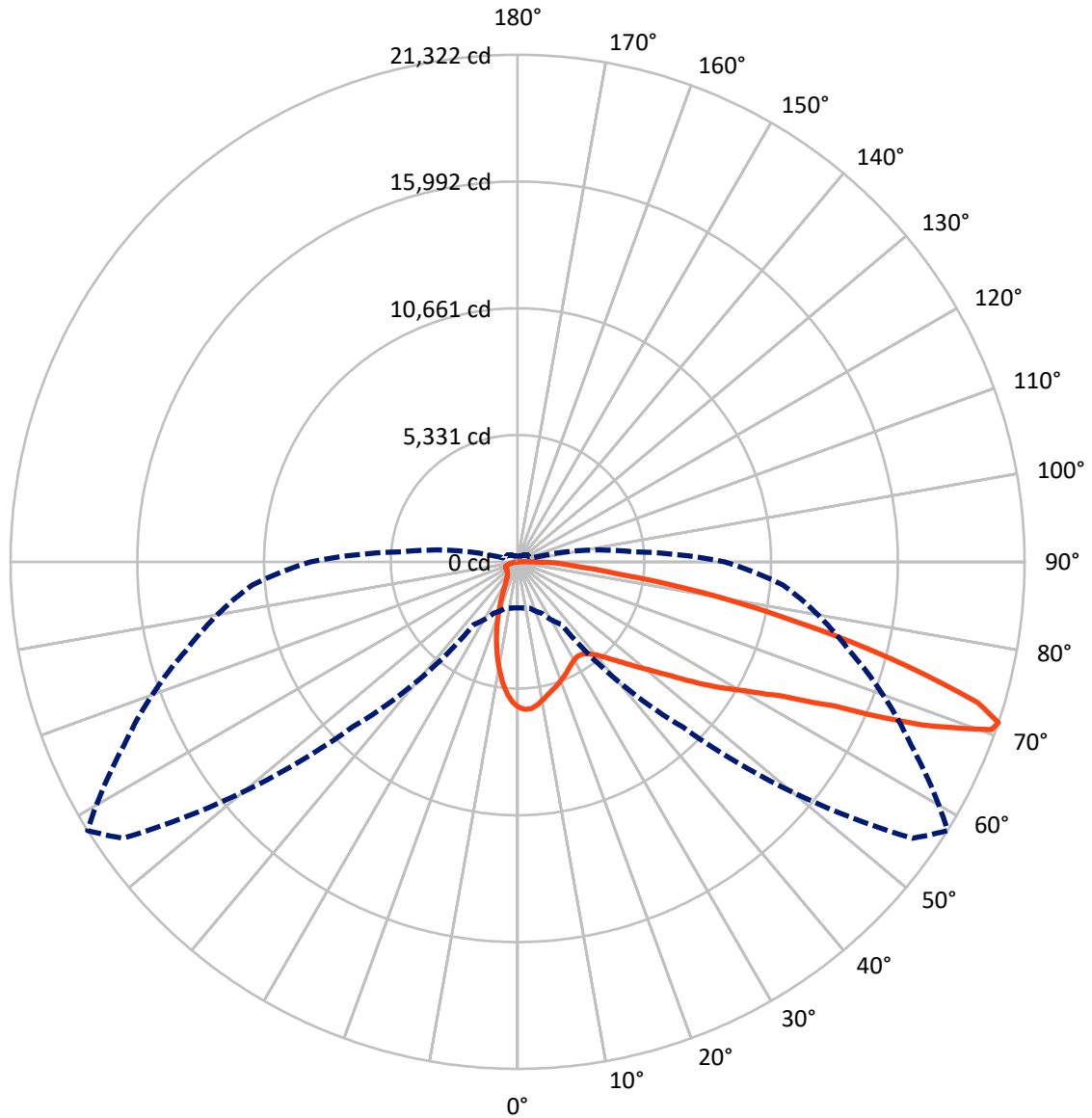
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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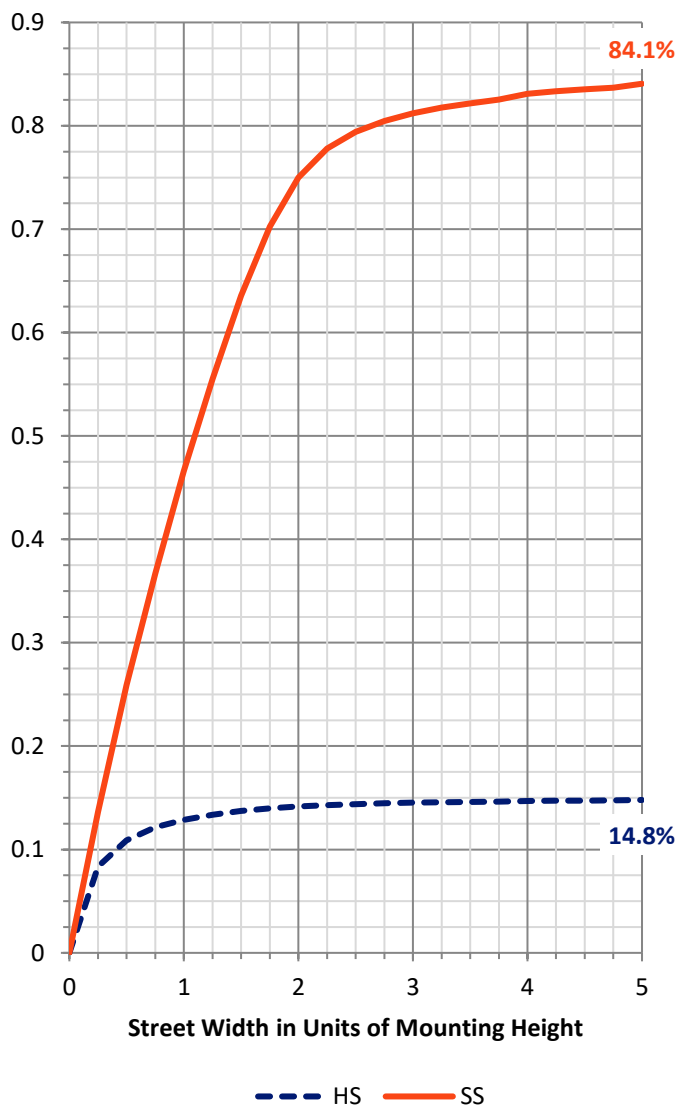
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3299.4	0.0	3299.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18769.0	0.0	18769.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	22068.4	0.0	22068.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.5	2.4
10°-20°	1172.9	5.3
20°-30°	1490.7	6.8
30°-40°	1898.8	8.6
40°-50°	2692.6	12.2
50°-60°	4167.0	18.9
60°-70°	5672.8	25.7
70°-80°	3784.4	17.1
80°-90°	661.6	3.0
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°	22068.4	100.0
0°-180°	22068.4	100.0

Coefficient of Utilization

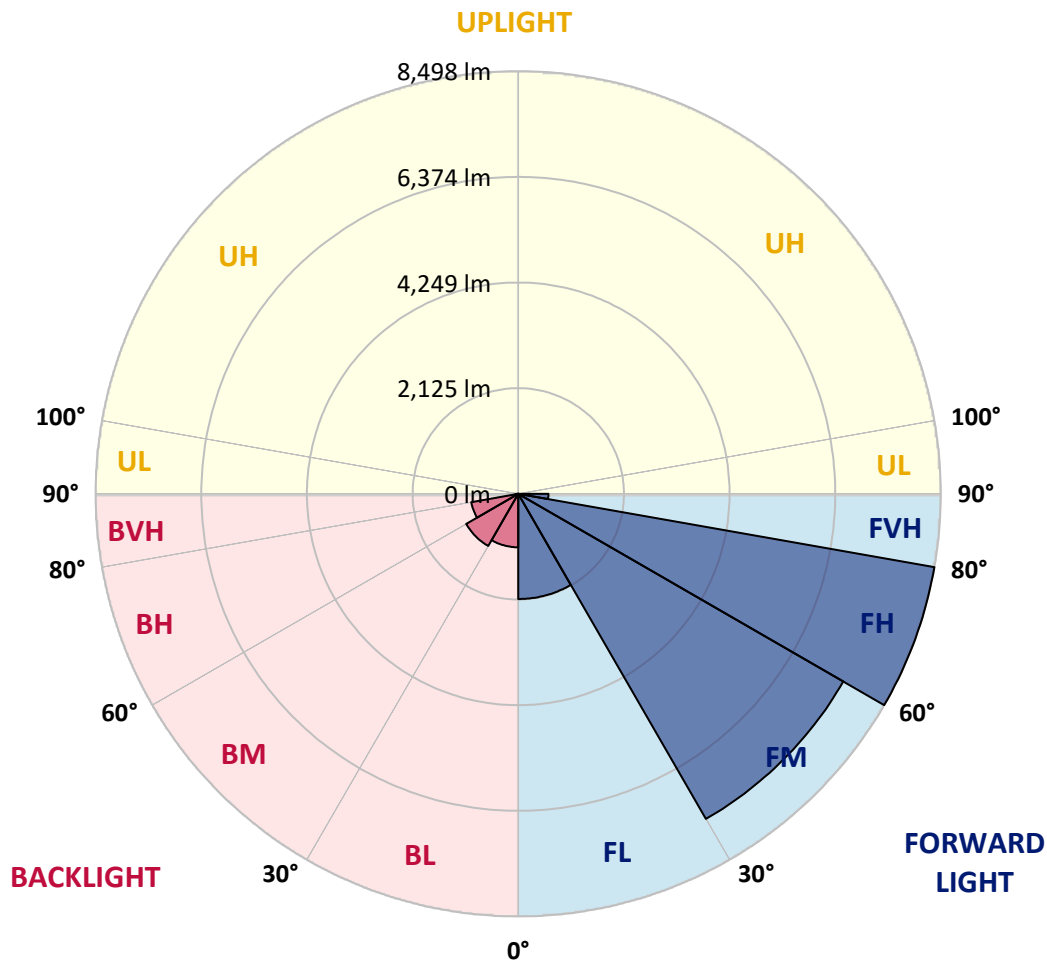


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.6	9.6			
FM (30°-60°)	7548.4	34.2			
FH (60°-80°)	8498.3	38.5			G4/12000
FVH (80°-90°)	606.7	2.7			G4/750
BL (0°-30°)	1075.5	4.9	B3/2500		
BM (30°-60°)	1210.0	5.5	B2/2500		
BH (60°-80°)	958.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	55.0	0.2			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°	58°	65°	75°	85°
0°	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4
2.5°	6276.6	6268.2	6271.3	6265.1	6250.5	6235.9	6214.4	6218.2	6188.2	6143.6	6088.3
5°	6158.3	6155.1	6178.2	6191.3	6202.1	6193.6	6187.4	6195.2	6151.3	6089.8	5993.8
7.5°	5909.9	5876.1	5905.4	5949.1	5990.7	6022.2	6063.6	6069.0	6041.4	5976.8	5850.8
10°	5557.1	5524.8	5567.9	5636.2	5719.3	5794.6	5878.4	5893.8	5899.2	5840.7	5687.8
12.5°	5191.1	5166.5	5209.6	5305.7	5443.3	5559.4	5693.2	5716.3	5763.9	5724.6	5537.1
15°	4863.7	4854.5	4906.7	5001.3	5159.7	5337.2	5530.2	5572.4	5653.2	5640.1	5419.5
17.5°	4580.8	4578.5	4618.5	4717.6	4893.0	5117.4	5367.9	5439.5	5559.4	5574.8	5322.6
20°	4370.2	4365.6	4393.3	4466.3	4646.9	4901.3	5192.7	5291.1	5464.1	5517.9	5222.7
22.5°	4257.2	4256.4	4257.2	4291.7	4439.4	4676.1	5022.1	5142.0	5371.0	5472.6	5112.0
25°	4238.0	4235.7	4218.7	4214.9	4298.7	4487.8	4852.9	4985.2	5282.6	5441.0	5006.7
27.5°	4287.9	4291.0	4268.7	4232.6	4249.5	4364.0	4706.1	4847.6	5211.9	5434.8	4933.7
30°	4391.7	4390.2	4370.9	4333.3	4300.2	4317.9	4601.6	4743.0	5164.3	5461.8	4883.7
32.5°	4506.3	4514.7	4510.8	4490.1	4440.9	4370.2	4570.1	4708.4	5150.4	5526.3	4862.1
35°	4643.9	4653.1	4680.7	4696.9	4639.2	4525.5	4637.7	4757.6	5190.4	5647.8	4896.8
37.5°	4774.6	4798.4	4876.0	4944.4	4895.2	4768.4	4817.6	4902.9	5314.2	5839.2	4989.7
40°	4925.2	4946.0	5072.8	5218.1	5210.4	5079.0	5107.4	5164.3	5532.5	6113.7	5158.2
42.5°	5073.6	5115.0	5298.8	5504.8	5564.0	5448.0	5493.2	5523.2	5840.0	6477.2	5451.8
45°	5271.2	5315.7	5570.9	5819.2	5957.6	5892.2	5964.5	5976.1	6226.7	6972.3	5878.4
47.5°	5570.2	5620.9	5918.4	6179.0	6390.4	6397.3	6516.5	6511.8	6709.4	7538.8	6415.8
50°	6036.0	6109.0	6352.7	6596.4	6853.1	6996.1	7155.2	7133.0	7288.2	8142.3	7034.6
52.5°	6646.4	6680.2	6860.8	7040.7	7359.8	7680.3	7908.7	7888.6	7944.7	8762.7	7737.2
55°	7279.0	7304.4	7379.0	7477.3	7906.3	8429.0	8911.7	8880.3	8738.1	9406.9	8431.3
57.5°	7847.9	7899.3	7950.9	7991.7	8456.7	9211.6	9938.0	9940.4	9599.0	10101.8	9148.5
60°	7936.3	7981.6	8322.2	8643.6	9398.4	10255.5	11036.5	11013.5	10490.0	10855.9	9948.0
62.5°	7015.4	7117.6	7686.5	8541.3	10305.5	12165.0	12437.9	12409.5	11555.4	11785.3	10879.0
65°	5027.5	5143.5	5830.0	7114.5	9865.7	14269.0	14967.0	14584.2	13008.3	12928.4	11969.0
67.5°	2900.4	2928.0	3225.6	4257.2	7511.9	14378.9	18825.2	18289.4	15264.5	14225.2	12502.5
70°	2144.7	2144.0	2214.7	2619.8	4065.0	11735.3	20660.1	21140.6	17639.9	14651.8	11748.4
71°	1939.5	1941.8	2021.0	2384.6	3219.4	9822.7	20270.4	21322.0	18265.6	14441.2	11202.6
72.5°	1658.9	1666.6	1776.6	2138.6	2708.2	6773.9	18591.5	20233.5	18562.3	13921.5	10348.6
75°	1258.4	1276.0	1428.2	1802.6	2475.3	3435.5	13644.8	16156.9	16489.9	12284.1	7689.6
77.5°	897.8	917.9	1090.0	1515.9	2353.1	2589.1	9137.8	11785.3	12135.1	7872.5	3468.4
80°	567.3	591.2	721.0	1206.2	2210.8	2458.4	5742.3	7921.7	6617.2	2519.1	882.5
82.5°	332.8	351.3	447.4	787.9	1805.7	2367.6	3378.5	4390.9	2575.3	761.1	401.3
85°	192.9	201.4	279.1	502.0	1311.4	2234.7	2482.2	2454.5	1117.8	372.1	189.8
87.5°	89.9	100.0	165.3	262.1	728.0	1619.7	1961.7	1695.0	694.9	174.5	89.1
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°	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4	6114.4
2.5°	6061.4	6048.3	5993.8	5945.3	5894.6	5828.4	5755.4	5746.2	5701.6	5710.1	5694.6
5°	5941.4	5908.4	5776.9	5657.8	5517.1	5391.1	5254.2	5191.1	5100.5	5094.4	5071.3
7.5°	5770.0	5708.5	5504.8	5278.8	5052.8	4837.5	4624.7	4484.7	4341.8	4281.0	4275.6
10°	5577.1	5472.6	5172.7	4838.4	4512.4	4198.0	3893.6	3668.3	3465.4	3369.3	3365.5
12.5°	5394.1	5239.6	4828.3	4373.2	3927.4	3519.9	3102.5	2806.6	2552.2	2466.8	2430.7
15°	5238.8	5021.3	4493.1	3911.3	3370.1	2804.3	2329.2	2017.9	1782.7	1701.2	1685.8
17.5°	5088.2	4808.4	4149.6	3444.7	2790.5	2168.5	1692.7	1461.3	1336.0	1303.0	1302.2
20°	4938.2	4589.3	3790.6	2967.3	2230.0	1622.0	1301.5	1197.7	1155.4	1151.6	1145.4
22.5°	4768.4	4357.1	3413.1	2488.3	1740.4	1275.3	1106.2	1064.7	1059.3	1073.1	1073.1
25°	4609.3	4126.5	3030.3	2019.4	1353.7	1063.9	987.8	979.3	994.0	1018.6	1020.9
27.5°	4460.9	3904.3	2656.7	1602.8	1084.7	937.0	905.6	915.5	941.7	970.1	970.9
30°	4338.7	3694.5	2293.8	1263.0	916.3	842.5	837.2	857.1	885.5	907.9	913.2
32.5°	4244.1	3515.4	1943.3	1015.5	806.3	771.8	776.4	793.3	811.0	823.3	831.8
35°	4200.3	3361.6	1619.7	856.4	736.5	717.2	723.3	732.6	740.3	749.5	756.4
37.5°	4208.0	3242.4	1330.6	757.2	689.5	679.6	679.6	679.6	679.6	684.1	685.0
40°	4279.4	3174.1	1095.4	694.2	658.0	647.2	638.8	631.1	625.0	628.0	626.5
42.5°	4462.4	3167.9	923.3	654.2	632.6	615.0	598.1	587.3	579.6	582.7	584.3
45°	4773.0	3244.8	807.2	625.7	608.9	581.9	560.4	548.9	543.5	553.5	555.0
47.5°	5175.0	3412.4	736.5	604.9	586.5	551.2	528.1	517.4	518.9	533.5	537.3
50°	5693.2	3684.5	702.6	591.9	571.1	525.0	501.2	492.0	496.6	517.4	521.9
52.5°	6262.0	4076.5	706.5	588.1	561.2	505.8	480.5	469.7	477.4	496.6	500.4
55°	6918.5	4547.7	770.3	593.5	546.5	493.5	463.5	445.1	451.2	468.9	472.0
57.5°	7648.0	5087.4	898.7	591.9	528.1	482.0	445.8	418.2	422.8	433.5	436.6
60°	8407.5	5739.3	1097.7	596.6	519.6	468.2	422.0	387.4	385.9	395.2	396.7
62.5°	9319.2	6493.4	1325.3	599.6	525.0	450.5	390.5	356.7	352.0	354.4	355.9
65°	10258.6	7039.1	1240.0	587.3	542.0	435.9	362.8	326.7	318.2	316.7	317.5
67.5°	10287.8	6454.2	869.4	562.7	548.9	428.1	342.1	301.4	287.5	282.2	281.3
70°	9226.2	5243.5	677.2	536.6	521.2	415.8	322.9	280.6	259.8	251.3	250.6
71°	8708.1	4826.8	641.8	523.5	500.4	403.5	314.4	271.4	249.8	240.6	239.0
72.5°	7895.5	4327.1	598.8	502.8	460.5	372.1	298.3	258.3	236.0	225.2	222.9
75°	5666.2	2829.7	514.3	448.2	381.3	296.7	261.4	232.1	213.0	199.9	198.3
77.5°	2183.2	1126.1	389.0	372.8	292.1	232.1	215.3	200.7	186.8	173.7	173.0
80°	674.9	503.5	283.7	280.6	211.4	173.0	167.6	163.8	158.4	144.5	141.4
82.5°	360.5	289.1	195.3	181.4	138.3	115.3	121.5	123.0	123.8	109.2	107.6
85°	172.1	153.0	109.9	103.0	80.7	64.6	74.5	80.7	81.5	66.9	62.2
87.5°	82.3	79.9	51.5	39.2	30.0	21.5	26.2	32.3	35.4	25.3	22.3
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)