

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: P319791

Luminaire Tested: **GLEON-SA7A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319791
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-SA7A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 24233 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

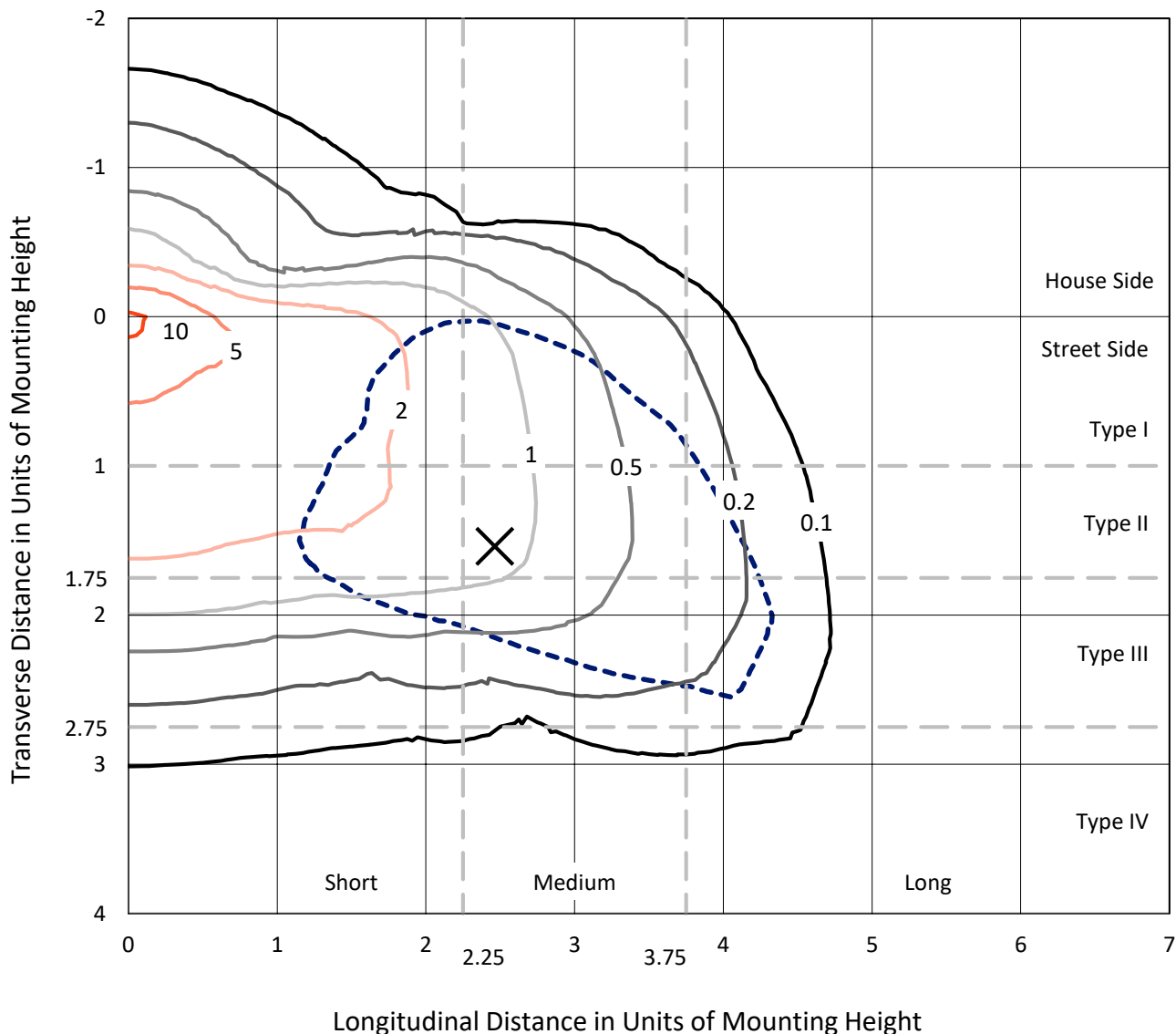
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

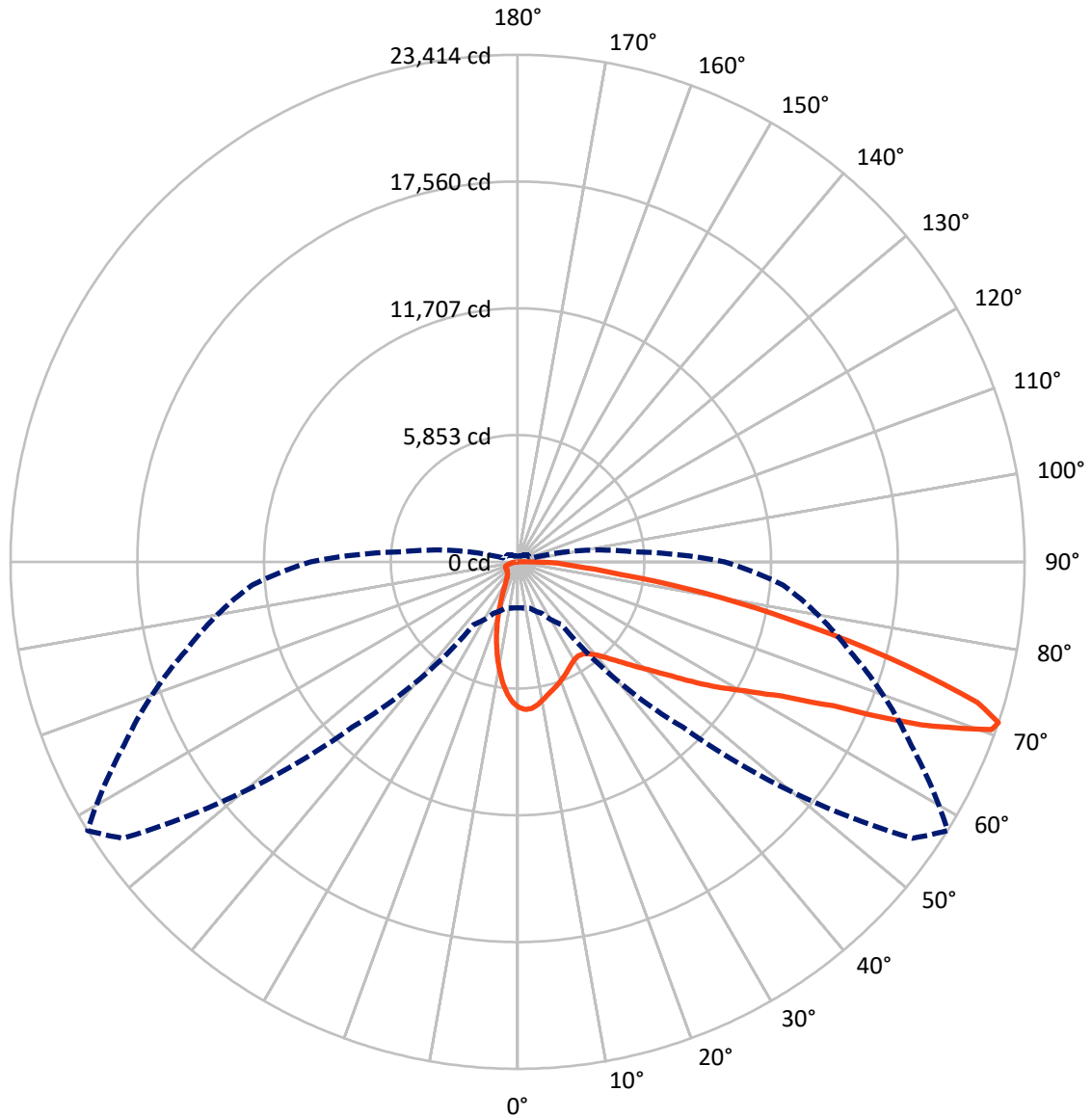
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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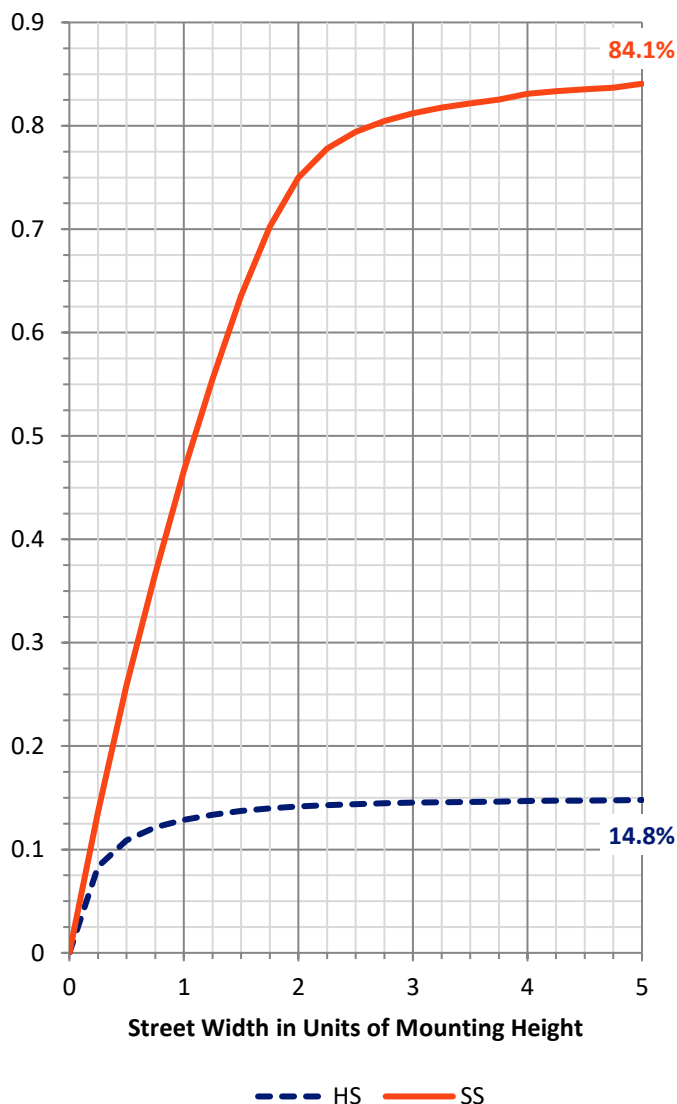
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3623.0	0.0	3623.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20610.0	0.0	20610.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	24233.0	0.0	24233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.2	2.4
10°-20°	1288.0	5.3
20°-30°	1636.9	6.8
30°-40°	2085.1	8.6
40°-50°	2956.7	12.2
50°-60°	4575.7	18.9
60°-70°	6229.2	25.7
70°-80°	4155.6	17.1
80°-90°	726.5	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°	24233.0	100.0
0°-180°	24233.0	100.0

Coefficient of Utilization

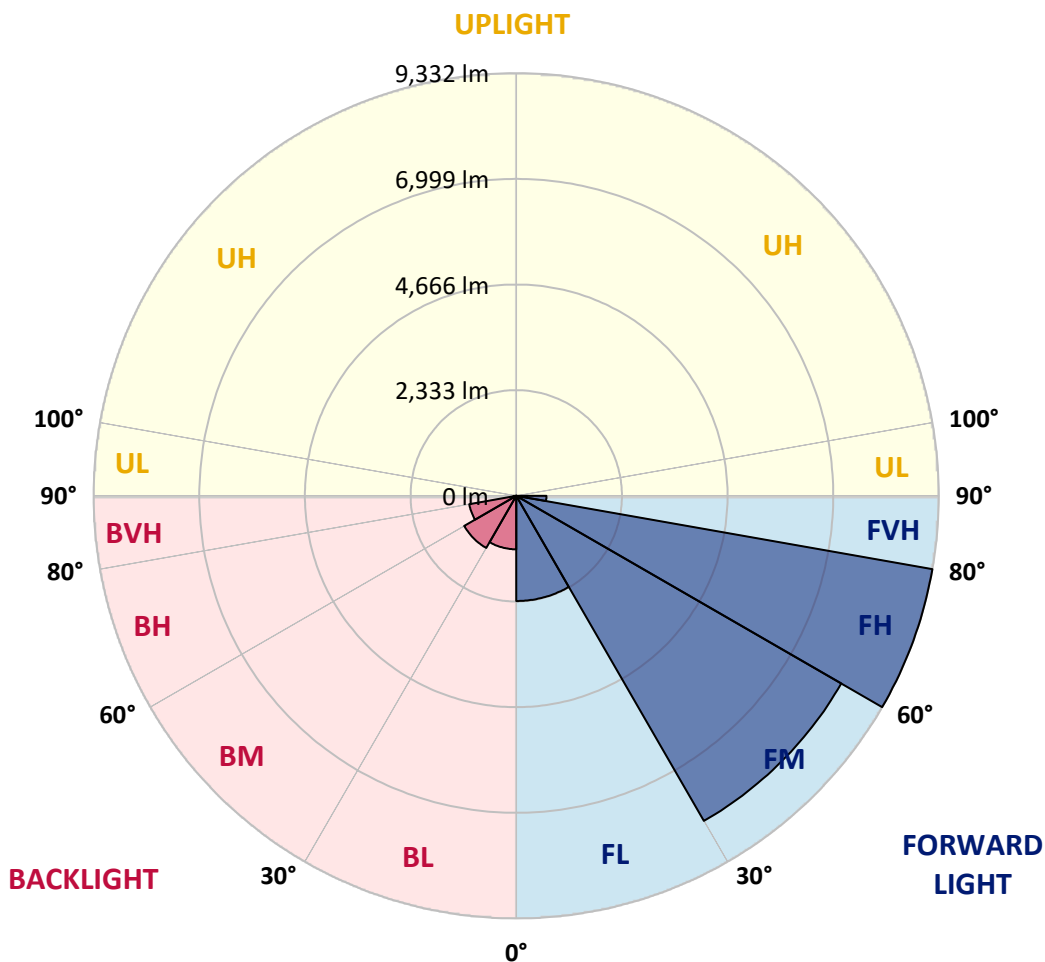


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.1	9.6			
FM (30°-60°)	8288.9	34.2			
FH (60°-80°)	9331.8	38.5			G4/12000
FVH (80°-90°)	666.2	2.7			G4/750
BL (0°-30°)	1181.0	4.9	B3/2500		
BM (30°-60°)	1328.7	5.5	B2/2500		
BH (60°-80°)	1053.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	60.4	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°	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2
2.5°	6892.3	6883.0	6886.4	6879.6	6863.6	6847.5	6823.9	6828.1	6795.2	6746.2	6685.5
5°	6762.3	6758.9	6784.2	6798.6	6810.4	6801.1	6794.4	6802.8	6754.7	6687.1	6581.6
7.5°	6489.6	6452.5	6484.6	6532.7	6578.3	6612.9	6658.4	6664.4	6634.0	6563.1	6424.6
10°	6102.2	6066.7	6114.0	6189.1	6280.3	6363.0	6455.0	6471.9	6477.8	6413.7	6245.7
12.5°	5700.4	5673.4	5720.6	5826.1	5977.2	6104.7	6251.6	6276.9	6329.2	6286.2	6080.2
15°	5340.8	5330.6	5388.0	5491.9	5665.8	5860.8	6072.6	6119.1	6207.7	6193.3	5951.1
17.5°	5030.1	5027.6	5071.5	5180.4	5372.8	5619.3	5894.5	5973.0	6104.7	6121.6	5844.7
20°	4798.8	4793.8	4824.2	4904.4	5102.7	5382.1	5702.1	5810.1	6000.0	6059.1	5735.0
22.5°	4674.8	4673.9	4674.8	4712.7	4874.8	5134.8	5514.7	5646.3	5897.9	6009.3	5613.4
25°	4653.7	4651.1	4632.6	4628.3	4720.3	4928.0	5329.0	5474.1	5800.8	5974.7	5497.8
27.5°	4708.5	4711.9	4687.4	4647.7	4666.3	4792.1	5167.7	5323.0	5723.2	5968.0	5417.6
30°	4822.5	4820.8	4799.7	4758.3	4722.0	4741.4	5052.9	5208.2	5670.8	5997.5	5362.7
32.5°	4948.3	4957.5	4953.3	4930.5	4876.5	4798.8	5018.3	5170.3	5655.6	6068.4	5339.1
35°	5099.4	5109.5	5139.9	5157.6	5094.3	4969.4	5092.6	5224.3	5699.5	6201.8	5377.1
37.5°	5242.9	5269.0	5354.3	5429.4	5375.4	5236.1	5290.1	5383.8	5835.4	6412.0	5479.2
40°	5408.3	5431.1	5570.4	5729.9	5721.5	5577.1	5608.4	5670.8	6075.2	6713.3	5664.1
42.5°	5571.2	5616.8	5818.5	6044.8	6109.8	5982.3	6032.1	6065.0	6412.8	7112.6	5986.5
45°	5788.2	5837.1	6117.4	6390.0	6542.0	6470.2	6549.6	6562.2	6837.4	7656.2	6455.0
47.5°	6116.5	6172.2	6498.9	6785.1	7017.2	7024.8	7155.6	7150.6	7367.5	8278.3	7045.1
50°	6628.1	6708.3	6975.8	7243.4	7525.4	7682.4	7857.1	7832.6	8003.1	8941.0	7724.6
52.5°	7298.3	7335.4	7533.8	7731.3	8081.6	8433.6	8684.3	8662.4	8724.0	9622.2	8496.1
55°	7993.0	8020.9	8102.7	8210.8	8681.8	9255.8	9785.9	9751.3	9595.2	10329.5	9258.4
57.5°	8617.7	8674.2	8730.8	8775.5	9286.2	10115.1	10912.8	10915.4	10540.6	11092.6	10045.9
60°	8714.7	8764.5	9138.5	9491.3	10320.3	11261.5	12119.1	12093.8	11518.9	11920.7	10923.8
62.5°	7703.5	7815.7	8440.4	9379.1	11316.3	13358.3	13657.9	13626.7	12688.9	12941.3	11946.0
65°	5520.6	5648.0	6401.8	7812.4	10833.5	15668.6	16435.1	16014.7	14284.3	14196.5	13143.0
67.5°	3184.9	3215.3	3541.9	4674.8	8248.8	15789.3	20671.7	20083.4	16761.8	15620.5	13728.8
70°	2355.1	2354.3	2431.9	2876.8	4463.7	12886.4	22686.7	23214.2	19370.1	16089.0	12900.7
71°	2129.7	2132.3	2219.2	2618.5	3535.2	10786.2	22258.7	23413.5	20057.2	15857.7	12301.4
72.5°	1821.6	1830.1	1950.8	2348.4	2973.8	7438.4	20415.1	22218.2	20383.1	15287.1	11363.6
75°	1381.8	1401.2	1568.4	1979.5	2718.1	3772.4	14983.2	17741.8	18107.3	13489.1	8443.8
77.5°	985.9	1007.9	1197.0	1664.6	2583.9	2843.0	10034.1	12941.3	13325.3	8644.7	3808.7
80°	623.0	649.1	791.8	1324.4	2427.7	2699.5	6305.6	8698.7	7266.2	2766.2	969.1
82.5°	365.5	385.8	491.3	865.2	1982.8	2599.9	3709.9	4821.6	2827.8	835.7	440.6
85°	211.9	221.2	306.4	551.2	1440.1	2453.9	2725.7	2695.3	1227.4	408.6	208.5
87.5°	98.8	109.7	181.5	287.8	799.4	1778.6	2154.2	1861.3	763.1	191.6	97.9
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°	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2	6714.2
2.5°	6655.9	6641.6	6581.6	6528.5	6472.7	6400.1	6320.0	6309.8	6260.9	6270.2	6253.3
5°	6524.2	6487.9	6343.6	6212.8	6058.3	5919.8	5769.6	5700.4	5600.8	5594.0	5568.7
7.5°	6336.0	6268.5	6044.8	5796.6	5548.4	5312.1	5078.2	4924.6	4767.6	4700.9	4695.0
10°	6124.1	6009.3	5680.1	5312.9	4955.0	4609.8	4275.5	4028.2	3805.3	3699.8	3695.6
12.5°	5923.2	5753.5	5301.9	4802.2	4312.6	3865.2	3406.9	3081.9	2802.5	2708.8	2669.1
15°	5752.7	5513.8	4933.9	4294.9	3700.6	3079.4	2557.7	2215.8	1957.5	1868.0	1851.2
17.5°	5587.3	5280.0	4556.6	3782.5	3064.2	2381.3	1858.8	1604.7	1467.1	1430.8	1429.9
20°	5422.7	5039.4	4162.4	3258.3	2448.8	1781.1	1429.1	1315.1	1268.7	1264.5	1257.7
22.5°	5236.1	4784.5	3747.9	2732.4	1911.1	1400.4	1214.7	1169.1	1163.2	1178.4	1178.4
25°	5061.4	4531.3	3327.5	2217.5	1486.5	1168.3	1084.7	1075.4	1091.5	1118.5	1121.0
27.5°	4898.5	4287.3	2917.3	1760.0	1191.1	1029.0	994.4	1005.4	1034.1	1065.3	1066.1
30°	4764.2	4056.9	2518.9	1386.9	1006.2	925.2	919.3	941.2	972.4	996.9	1002.8
32.5°	4660.4	3860.2	2133.9	1115.1	885.5	847.5	852.6	871.1	890.6	904.1	913.3
35°	4612.3	3691.4	1778.6	940.4	808.7	787.6	794.3	804.5	812.9	823.0	830.6
37.5°	4620.7	3560.5	1461.2	831.5	757.2	746.2	746.2	746.2	746.2	751.3	752.1
40°	4699.2	3485.4	1202.9	762.2	722.6	710.8	701.5	693.0	686.3	689.6	688.0
42.5°	4900.1	3478.6	1013.8	718.3	694.7	675.3	656.7	644.9	636.5	639.8	641.5
45°	5241.2	3563.0	886.3	687.1	668.5	639.0	615.4	602.7	596.8	607.8	609.5
47.5°	5682.6	3747.1	808.7	664.3	644.1	605.2	579.9	568.1	569.8	585.8	590.0
50°	6251.6	4045.9	771.5	650.0	627.2	576.5	550.4	540.2	545.3	568.1	573.2
52.5°	6876.2	4476.4	775.7	645.8	616.2	555.4	527.6	515.8	524.2	545.3	549.5
55°	7597.1	4993.8	845.8	651.7	600.2	541.9	509.0	488.7	495.5	514.9	518.3
57.5°	8398.2	5586.4	986.8	650.0	579.9	529.3	489.6	459.2	464.3	476.1	479.5
60°	9232.2	6302.2	1205.4	655.0	570.6	514.1	463.4	425.4	423.8	433.9	435.6
62.5°	10233.3	7130.3	1455.3	658.4	576.5	494.7	428.8	391.7	386.6	389.1	390.8
65°	11264.8	7729.6	1361.6	644.9	595.1	478.6	398.4	358.8	349.5	347.8	348.6
67.5°	11296.9	7087.3	954.7	617.9	602.7	470.2	375.6	330.9	315.7	309.8	308.9
70°	10131.2	5757.8	743.7	589.2	572.3	456.7	354.5	308.1	285.3	276.0	275.2
71°	9562.2	5300.3	704.8	574.8	549.5	443.2	345.2	298.0	274.3	264.2	262.5
72.5°	8670.0	4751.6	657.6	552.1	505.6	408.6	327.5	283.6	259.1	247.3	244.8
75°	6222.0	3107.2	564.7	492.1	418.7	325.8	287.0	254.9	233.8	219.5	217.8
77.5°	2397.3	1236.6	427.1	409.4	320.8	254.9	236.4	220.3	205.1	190.8	189.9
80°	741.1	552.9	311.5	308.1	232.1	189.9	184.0	179.8	173.9	158.7	155.3
82.5°	395.9	317.4	214.4	199.2	151.9	126.6	133.4	135.1	135.9	119.9	118.2
85°	189.1	168.0	120.7	113.1	88.6	70.9	81.9	88.6	89.5	73.4	68.4
87.5°	90.3	87.8	56.6	43.1	32.9	23.6	28.7	35.5	38.8	27.9	24.5
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)