

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: P319492

Luminaire Tested: **GLEON-SA8C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319492
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-SA8C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 40823 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

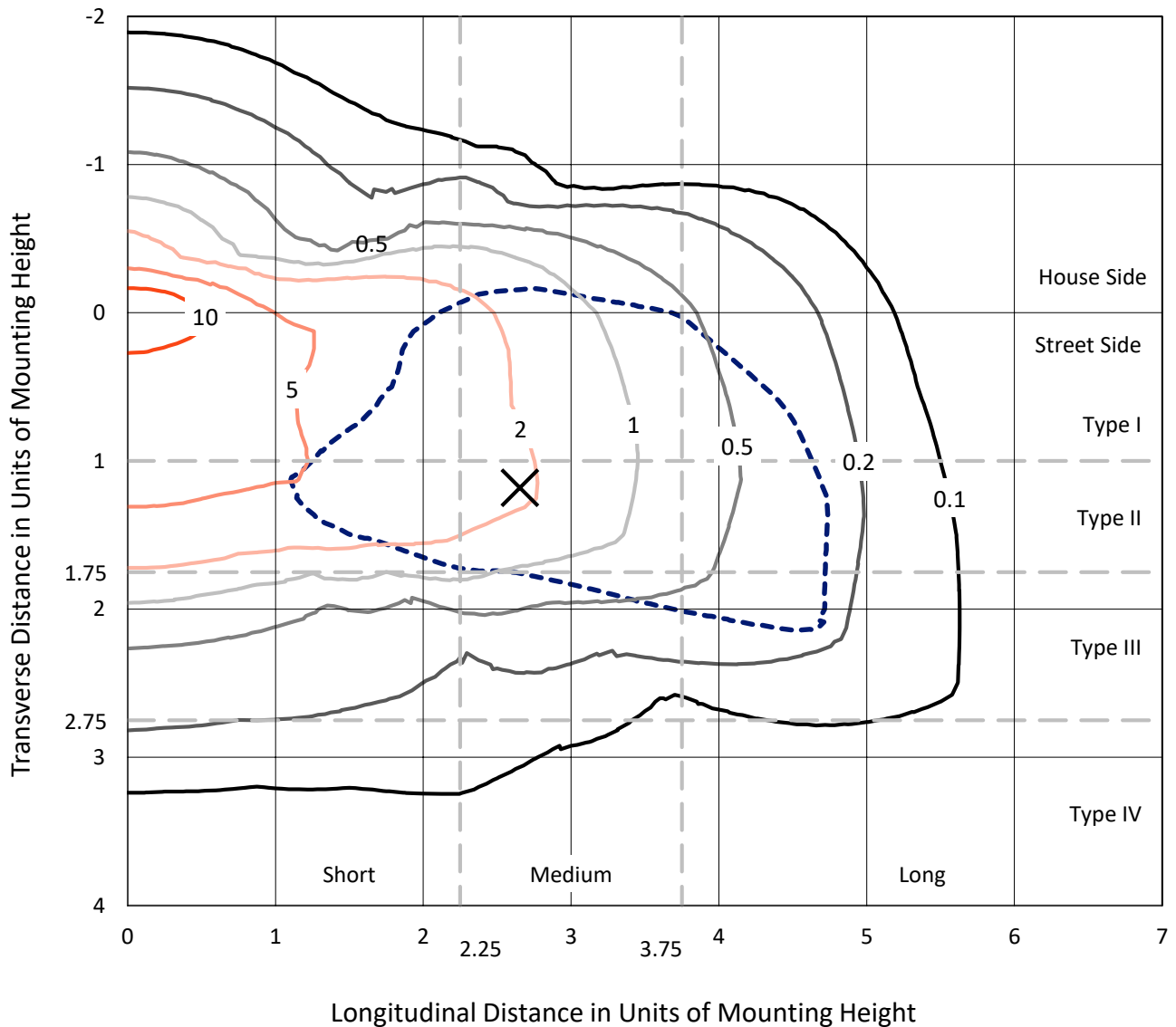
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

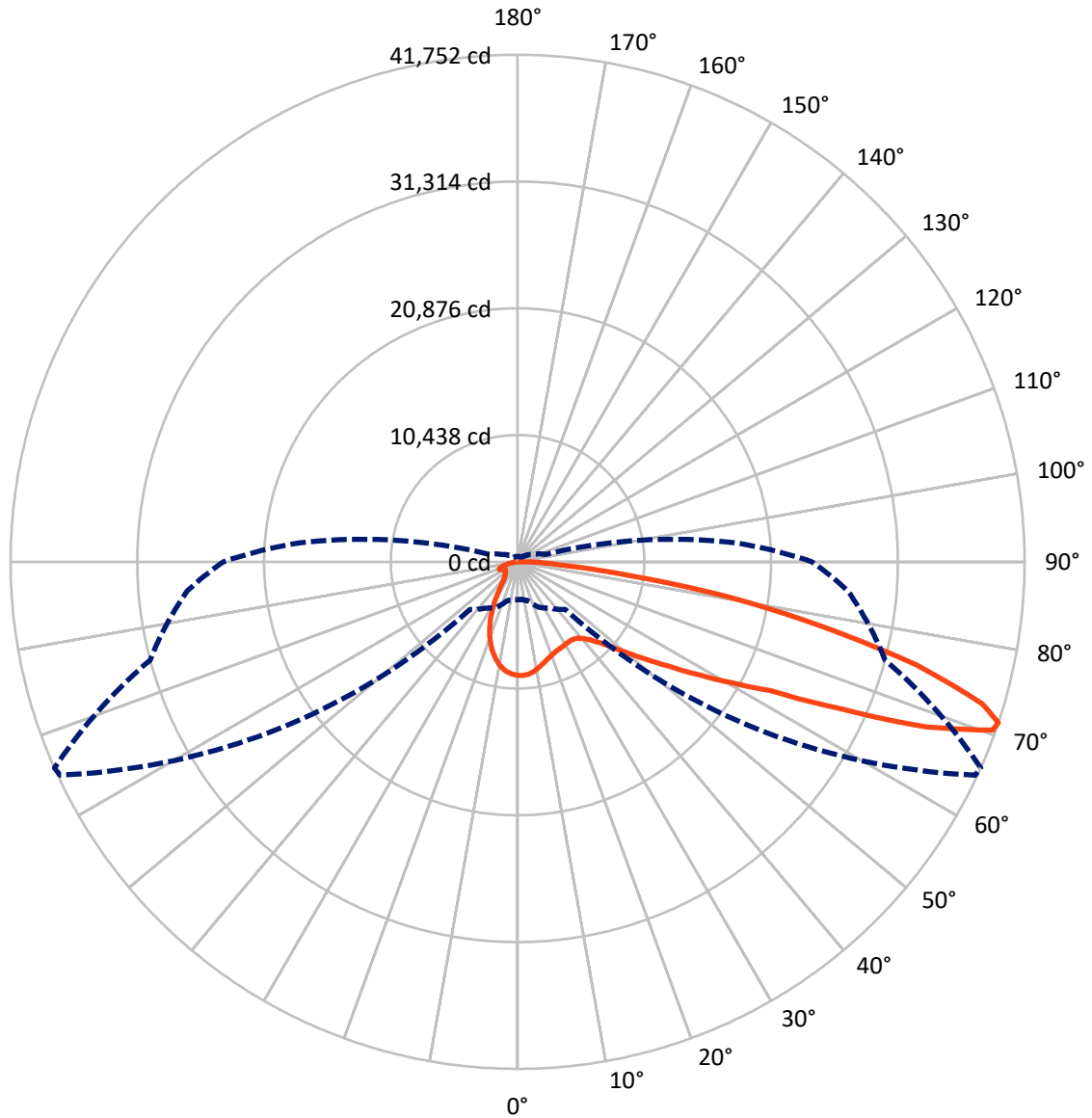
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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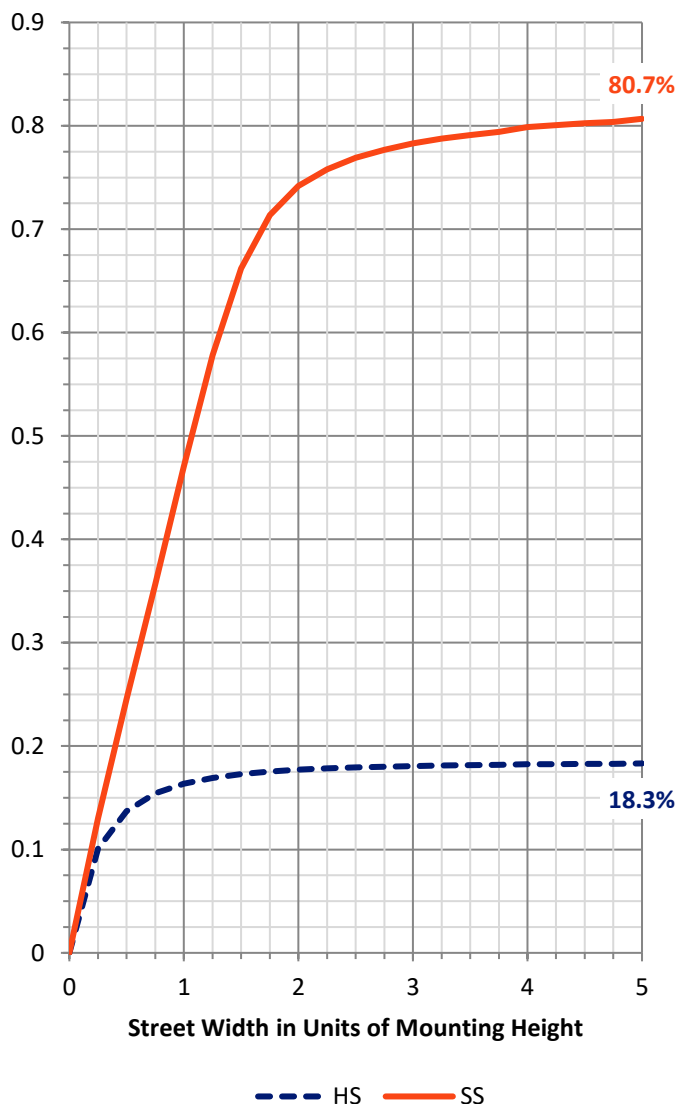
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7565.6	0.0	7565.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	33257.4	0.0	33257.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	40823.0	0.0	40823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.2	2.0
10°-20°	1974.3	4.8
20°-30°	2652.0	6.5
30°-40°	3488.7	8.5
40°-50°	5075.1	12.4
50°-60°	7927.9	19.4
60°-70°	9931.0	24.3
70°-80°	7575.1	18.6
80°-90°	1375.6	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°	40823.0	100.0
0°-180°	40823.0	100.0

Coefficient of Utilization

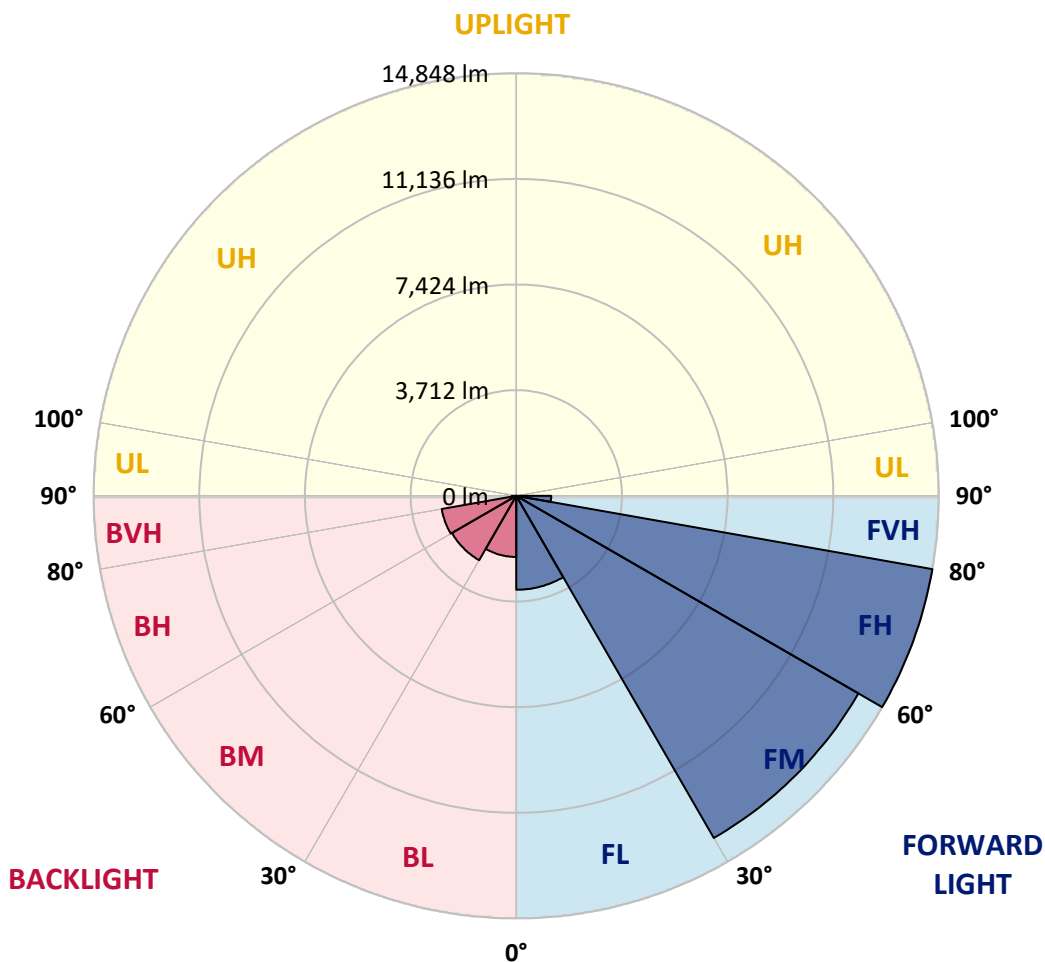


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.1	8.1			
FM (30°-60°)	13881.9	34.0			
FH (60°-80°)	14847.8	36.4			G5
FVH (80°-90°)	1226.7	3.0			G5
BL (0°-30°)	2148.4	5.3	B3/2500		
BM (30°-60°)	2609.9	6.4	B3/5000		
BH (60°-80°)	2658.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	148.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8
2.5°	9178.4	9164.3	9206.6	9250.3	9267.2	9295.4	9337.7	9361.6	9360.2	9364.4	9350.3
5°	8569.5	8551.2	8635.8	8704.8	8837.3	8986.7	9168.5	9298.2	9301.0	9374.3	9394.0
7.5°	7993.0	7980.4	8077.6	8189.0	8342.6	8570.9	8865.5	9144.6	9161.5	9360.2	9429.3
10°	7530.7	7527.9	7622.4	7743.6	7922.6	8177.7	8515.9	8924.7	8950.1	9292.6	9434.9
12.5°	7169.9	7175.6	7257.3	7395.4	7584.3	7850.7	8217.1	8678.0	8718.9	9185.4	9402.5
15°	6903.5	6926.1	6992.3	7131.9	7317.9	7588.5	7964.9	8449.7	8511.7	9065.6	9384.2
17.5°	6751.3	6776.7	6823.2	6938.8	7113.5	7374.3	7730.9	8262.2	8318.6	8974.0	9385.6
20°	6706.2	6727.3	6754.1	6824.6	6972.6	7209.4	7546.2	8093.1	8153.7	8900.7	9399.7
22.5°	6795.0	6810.5	6813.3	6807.7	6897.9	7091.0	7412.3	7969.1	8033.9	8852.8	9409.5
25°	6985.3	7006.4	6990.9	6938.8	6909.2	7027.6	7343.3	7887.3	7952.2	8817.6	9389.8
27.5°	7271.4	7274.2	7261.5	7193.9	7054.3	7034.6	7322.1	7839.4	7901.4	8776.7	9348.9
30°	7660.4	7678.7	7656.2	7564.6	7336.2	7147.4	7347.5	7792.9	7849.3	8724.5	9282.7
32.5°	8115.7	8160.8	8159.4	8063.5	7736.5	7399.7	7451.8	7764.7	7808.4	8669.6	9202.4
35°	8587.8	8649.8	8765.4	8724.5	8320.0	7798.5	7652.0	7809.8	7839.4	8662.5	9146.0
37.5°	9078.3	9140.3	9378.5	9488.5	9014.9	8369.4	7967.7	7969.1	7983.2	8748.5	9141.7
40°	9591.4	9657.6	10015.6	10301.7	9915.5	9092.4	8476.5	8301.7	8286.2	8959.9	9224.9
42.5°	10310.2	10369.4	10799.3	11164.3	10914.8	10018.4	9179.8	8814.8	8782.3	9374.3	9491.3
45°	11219.3	11270.0	11726.7	12117.1	11988.9	11075.5	10063.5	9520.9	9515.3	10064.9	10031.1
47.5°	12300.3	12339.8	12750.0	13127.7	13174.2	12291.9	11174.2	10610.4	10518.8	11012.1	10866.9
50°	13426.5	13470.2	13749.3	14155.2	14500.5	13919.8	12603.4	11945.2	11822.5	12262.3	12050.9
52.5°	14172.1	14229.9	14472.3	14986.8	15991.7	15704.2	14293.3	13563.2	13377.2	13777.5	13615.4
55°	13839.5	13969.1	14339.8	15164.4	17184.1	18430.1	16377.9	15450.5	15240.5	15573.1	15477.3
57.5°	12327.1	12504.7	13010.7	14283.5	17351.8	20831.8	19529.5	17673.2	17525.2	17429.4	17473.1
60°	9563.2	9733.7	10360.9	12019.9	16183.4	22585.2	24272.3	20413.2	20199.0	19292.7	19332.1
62.5°	6768.2	6682.2	7112.1	8325.7	13150.3	22790.9	29669.1	24077.8	23373.1	21260.3	21086.9
65°	5161.4	5141.7	5334.8	5721.0	7964.9	20328.6	32884.1	30237.1	29136.3	23574.6	23165.9
67.5°	4241.1	4205.8	4396.1	4958.5	5129.0	13115.0	32954.6	37383.1	36302.0	26455.5	25570.4
70°	3487.0	3447.5	3625.1	4351.0	4740.0	6651.2	27735.3	41567.8	41510.0	30103.2	27385.8
71°	3126.2	3098.0	3310.8	4117.0	4656.9	5543.4	23946.7	41579.0	41752.4	31337.9	27278.7
72.5°	2545.5	2555.3	2780.9	3664.6	4594.8	4895.1	17599.9	39641.0	40007.5	32514.8	26304.7
75°	1691.4	1699.8	1995.8	2818.9	4455.3	4789.3	9673.1	33263.2	33936.9	31810.1	24003.1
77.5°	1136.0	1133.2	1334.8	1933.8	3881.6	4789.3	5671.7	24878.4	25618.3	25311.1	18504.8
80°	782.2	776.6	919.0	1334.8	2938.7	4847.1	4384.8	17435.0	17659.1	13668.9	7520.9
82.5°	479.2	483.4	600.4	942.9	2000.0	4362.3	4139.6	9506.8	9263.0	3833.7	1878.8
85°	274.8	273.4	383.4	638.5	1284.0	3681.5	4036.7	4091.7	3753.4	1154.3	679.4
87.5°	98.7	105.7	205.8	353.8	735.7	2563.8	3425.0	2128.3	1918.3	521.5	307.3
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°	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8	9351.8
2.5°	9340.5	9348.9	9339.1	9282.7	9234.8	9157.3	9113.6	9053.0	9034.6	9026.2	9048.7
5°	9375.7	9378.5	9295.4	9147.4	8981.1	8785.2	8644.2	8470.8	8389.1	8353.9	8376.4
7.5°	9408.1	9395.5	9213.6	8930.3	8623.1	8282.0	7978.9	7701.3	7539.2	7473.0	7478.6
10°	9412.4	9358.8	9067.0	8628.7	8152.3	7652.0	7186.8	6758.4	6487.7	6311.6	6365.1
12.5°	9368.7	9278.5	8851.4	8238.3	7577.3	6895.1	6266.5	5623.7	5237.5	5058.5	5064.2
15°	9334.8	9171.3	8586.4	7778.8	6890.8	5987.4	5129.0	4373.6	3962.0	3778.8	3692.8
17.5°	9306.7	9055.8	8279.2	7261.5	6080.4	4934.5	3902.8	3229.1	3003.6	2950.0	2927.4
20°	9267.2	8933.1	7936.7	6662.5	5157.2	3756.2	2849.9	2517.3	2518.7	2580.7	2589.2
22.5°	9212.2	8793.6	7571.6	5990.2	4166.4	2735.8	2234.0	2138.1	2235.4	2353.8	2374.9
25°	9130.5	8628.7	7165.7	5247.4	3176.9	2102.9	1908.4	1904.2	2022.6	2146.6	2164.9
27.5°	9014.9	8413.1	6714.7	4449.7	2341.1	1787.2	1709.7	1739.3	1826.7	1916.9	1923.9
30°	8859.9	8162.2	6217.1	3608.2	1835.1	1591.3	1582.8	1609.6	1663.2	1726.6	1732.2
32.5°	8689.3	7907.1	5685.8	2793.5	1571.5	1485.6	1494.0	1506.7	1532.1	1557.5	1563.1
35°	8534.3	7646.3	5141.7	2122.6	1446.1	1416.5	1410.9	1408.0	1410.9	1402.4	1403.8
37.5°	8434.2	7430.7	4575.1	1689.9	1374.2	1355.9	1339.0	1317.8	1293.9	1279.8	1282.6
40°	8397.6	7270.0	4001.5	1460.2	1315.0	1302.3	1269.9	1224.8	1196.6	1188.2	1188.2
42.5°	8496.2	7186.8	3447.5	1344.6	1265.7	1244.6	1191.0	1138.8	1117.7	1116.3	1114.9
45°	8797.8	7220.7	2920.4	1281.2	1220.6	1179.7	1109.2	1065.6	1051.5	1054.3	1052.9
47.5°	9339.1	7433.5	2469.4	1238.9	1175.5	1121.9	1043.0	1007.8	990.8	990.8	992.3
50°	10259.5	7931.0	2110.0	1203.7	1137.4	1068.4	995.1	951.4	928.8	927.4	927.4
52.5°	11599.8	8821.8	1885.9	1174.1	1095.1	1020.4	947.2	892.2	865.4	859.8	857.0
55°	13279.9	10098.8	1823.8	1154.3	1038.8	968.3	889.4	834.4	804.8	792.1	790.7
57.5°	15158.7	11652.0	1946.5	1130.4	981.0	906.3	825.9	773.8	742.8	727.3	725.9
60°	17060.1	13347.6	2446.8	1096.6	933.1	838.6	761.1	713.2	682.2	665.3	662.4
62.5°	18964.3	15134.8	3468.7	1093.7	899.2	773.8	694.9	654.0	624.4	606.1	601.8
65°	21112.3	17091.1	4630.1	1168.4	888.0	714.6	627.2	594.8	569.4	552.5	551.1
67.5°	23578.8	19299.7	4518.7	1322.1	926.0	661.0	563.8	538.4	520.1	506.0	504.6
70°	24736.0	18954.4	2809.1	1430.6	979.6	608.9	503.2	484.9	470.8	460.9	456.7
71°	24251.1	17997.4	2355.2	1417.9	973.9	586.3	479.2	465.1	451.0	442.6	438.3
72.5°	22929.1	16413.1	1964.8	1319.3	910.5	545.5	448.2	434.1	421.4	411.6	408.7
75°	20575.3	14658.4	1573.0	1054.3	725.9	460.9	393.2	377.7	367.9	362.2	356.6
77.5°	15124.9	10461.0	1216.4	833.0	534.2	376.3	335.5	324.2	314.3	305.9	301.6
80°	5794.3	4052.2	818.9	621.6	391.8	297.4	270.6	265.0	255.1	249.5	249.5
82.5°	1560.3	1210.7	436.9	376.3	262.2	217.1	207.2	204.4	195.9	184.6	186.0
85°	631.4	534.2	245.2	207.2	160.7	128.3	139.5	140.9	131.1	117.0	118.4
87.5°	277.7	226.9	136.7	91.6	70.5	49.3	63.4	63.4	57.8	47.9	43.7
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)