

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: P322049

Luminaire Tested: **GLEON-SA5C-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18488 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

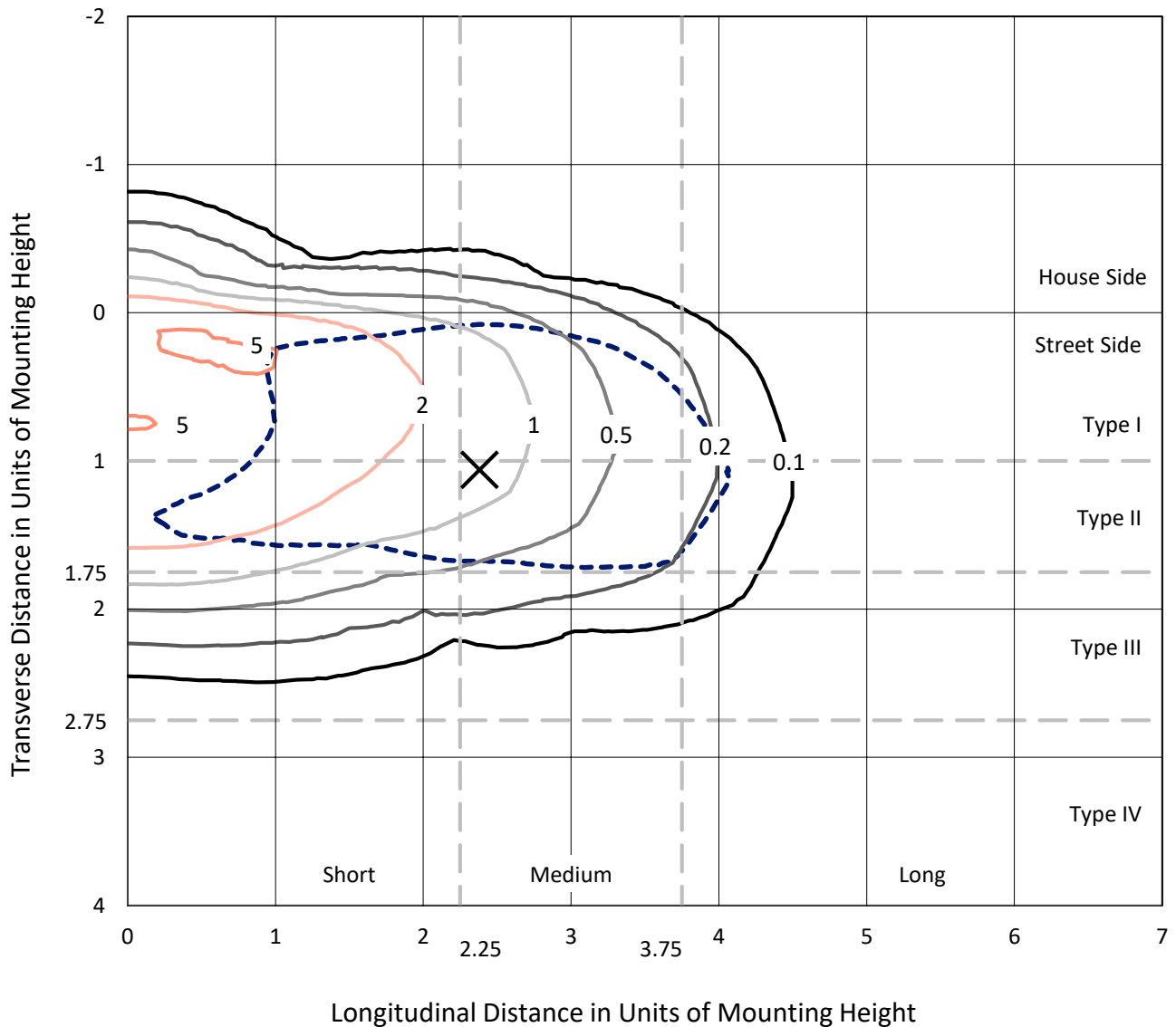
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

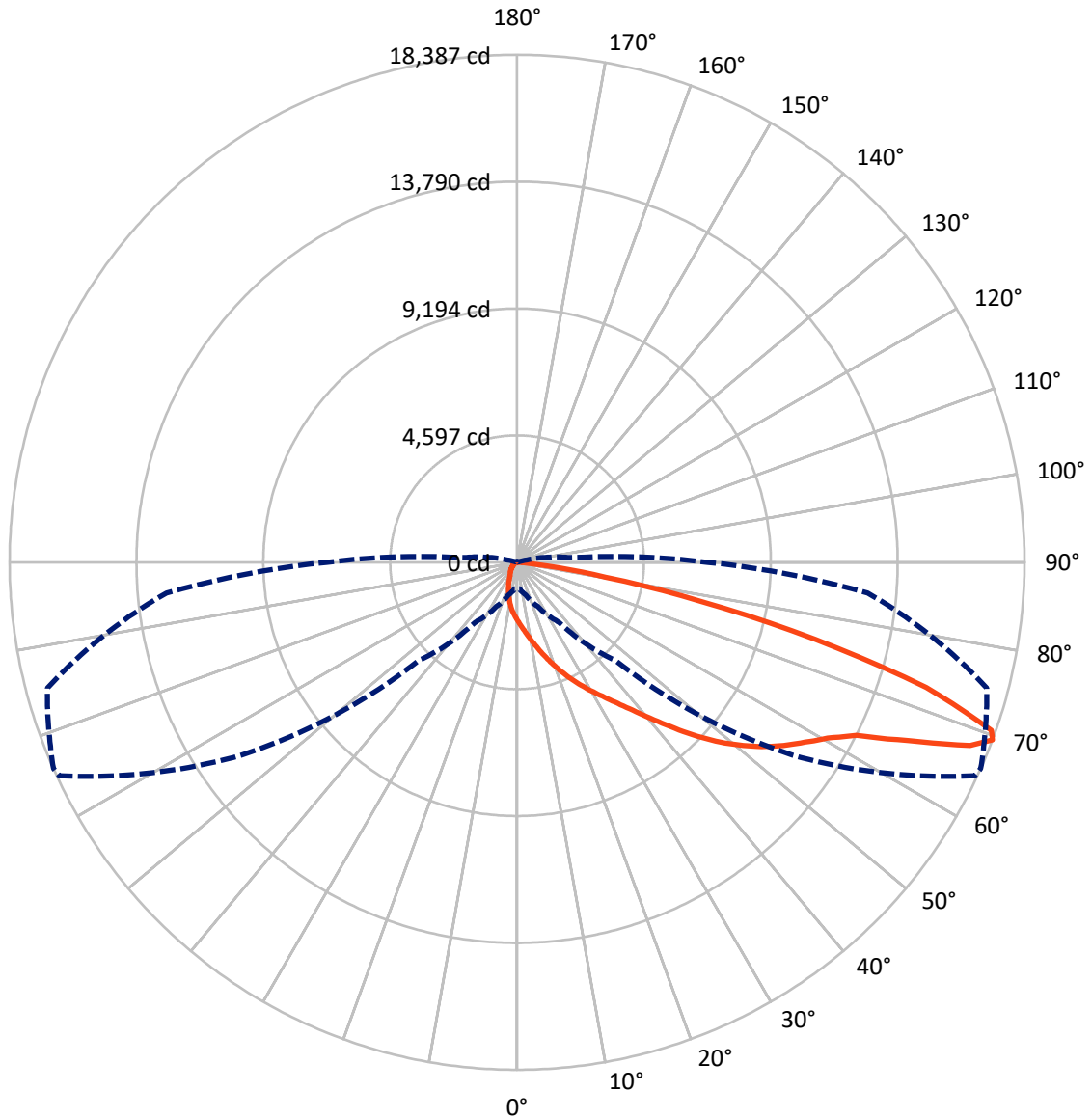
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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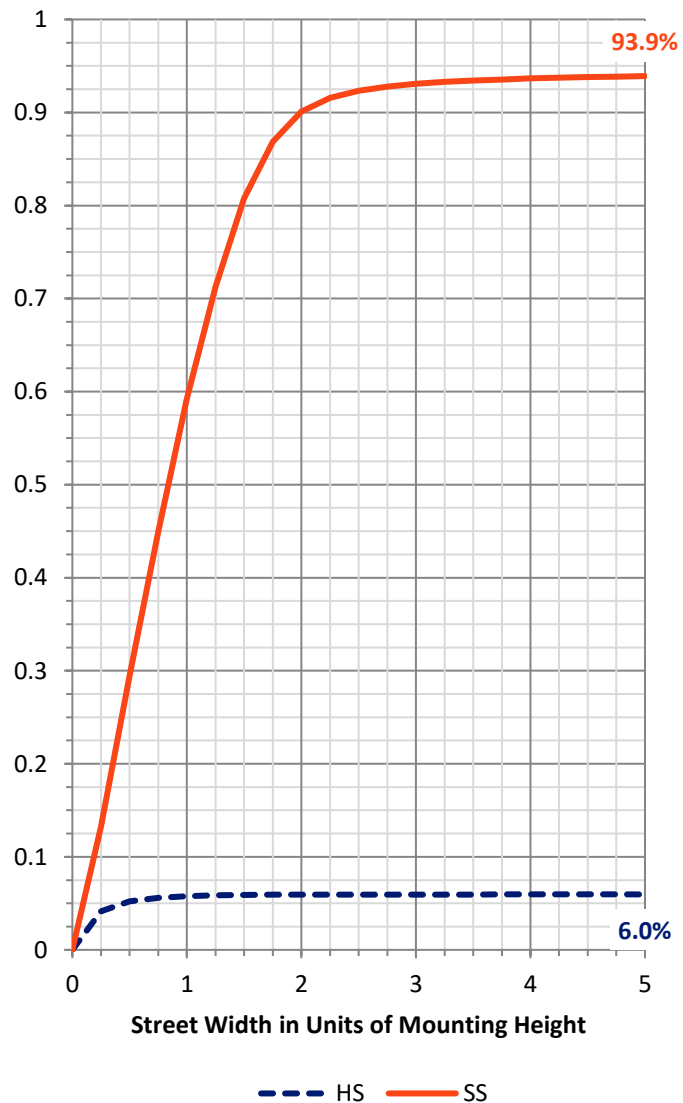
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.0	0.0	1109.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17379.0	0.0	17379.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	18488.0	0.0	18488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	605.3	3.3
20°-30°	1054.0	5.7
30°-40°	1849.3	10.0
40°-50°	3095.4	16.7
50°-60°	4550.0	24.6
60°-70°	4671.7	25.3
70°-80°	2306.3	12.5
80°-90°	152.5	0.8
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°	18488.0	100.0
0°-180°	18488.0	100.0

Coefficient of Utilization



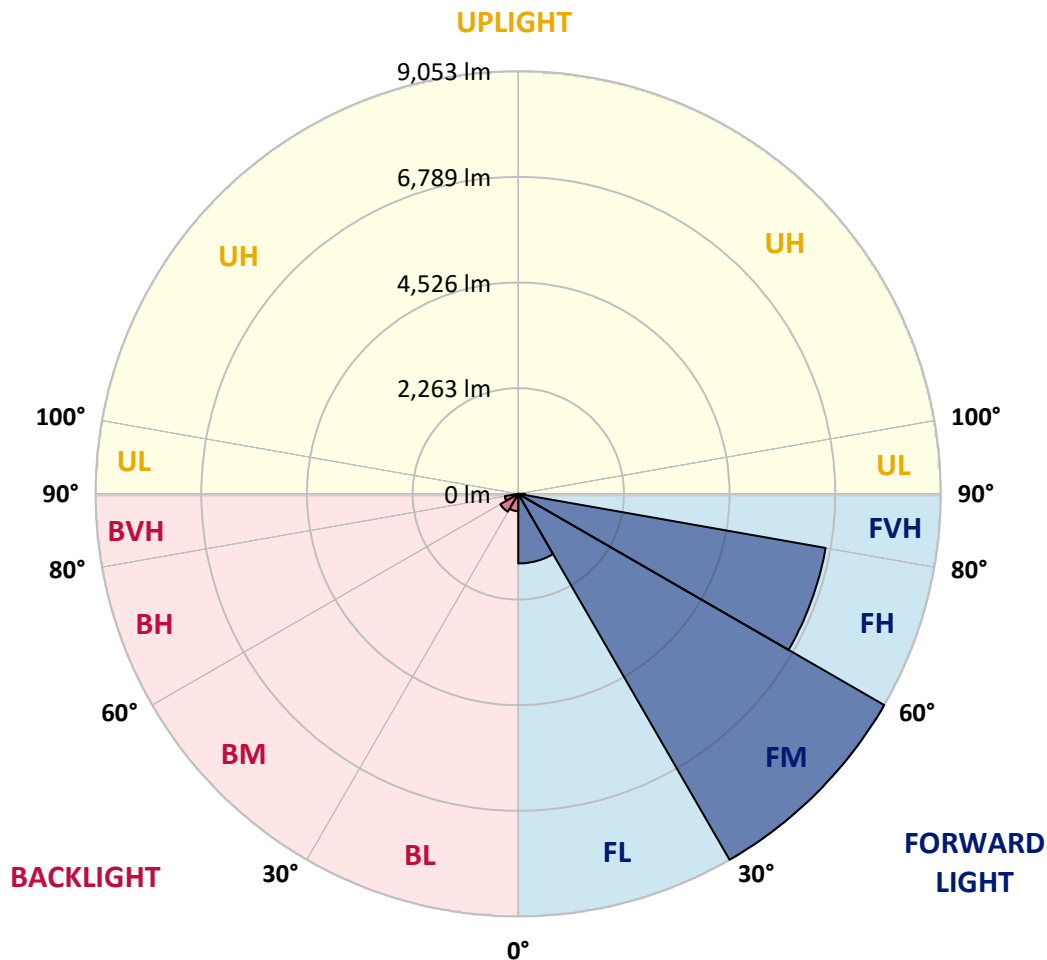
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.8	8.1			
FM (30°-60°)	9052.6	49.0			
FH (60°-80°)	6685.8	36.2			G3/7500
FVH (80°-90°)	148.8	0.8			G2/225
BL (0°-30°)	370.9	2.0	B1/500		
BM (30°-60°)	442.2	2.4	B1/1000		
BH (60°-80°)	292.3	1.6	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0
2.5°	2476.3	2465.8	2461.4	2442.1	2408.7	2383.2	2334.1	2277.0	2266.4	2211.1	2143.5
5°	2797.7	2788.9	2782.8	2755.6	2721.3	2657.2	2567.6	2461.4	2441.2	2335.8	2200.6
7.5°	3021.6	3037.4	3037.4	3019.9	2976.9	2928.6	2818.8	2673.9	2648.4	2486.9	2277.0
10°	3152.5	3171.8	3186.7	3201.7	3195.5	3176.2	3072.6	2909.2	2878.5	2664.2	2365.7
12.5°	3164.8	3184.1	3226.2	3288.6	3349.2	3393.1	3328.1	3170.0	3134.9	2869.7	2471.1
15°	3096.3	3116.5	3181.5	3302.6	3449.3	3577.5	3598.6	3458.9	3422.9	3114.7	2602.8
17.5°	2976.9	2990.0	3083.1	3250.8	3480.9	3716.2	3843.6	3768.9	3735.6	3394.8	2749.4
20°	2888.2	2897.8	2979.5	3159.5	3461.6	3803.2	4075.4	4098.2	4063.1	3695.2	2908.4
22.5°	3040.1	3057.6	3060.3	3145.5	3408.9	3846.2	4279.1	4422.3	4395.9	4013.9	3064.7
25°	3455.4	3475.6	3408.9	3356.2	3453.7	3865.5	4453.9	4754.2	4733.1	4357.3	3221.9
27.5°	4004.3	4025.3	3939.3	3782.1	3688.1	3938.4	4609.3	5091.4	5090.5	4720.8	3391.3
30°	4543.4	4564.5	4476.7	4319.5	4103.5	4144.8	4743.6	5444.4	5449.7	5095.8	3571.3
32.5°	5108.9	5135.3	5044.8	4842.9	4617.2	4501.3	4932.4	5799.2	5829.0	5530.4	3774.2
35°	5751.7	5755.2	5627.9	5416.3	5156.4	4978.1	5235.4	6196.9	6268.1	6068.7	4031.5
37.5°	6382.2	6407.7	6303.2	5969.5	5730.7	5528.7	5685.9	6694.0	6795.0	6726.5	4367.8
40°	6849.4	6903.0	6888.0	6528.0	6301.4	6157.4	6245.2	7284.9	7413.2	7492.2	4791.9
42.5°	7142.7	7183.1	7251.6	7034.7	6829.2	6852.9	6905.6	7973.4	8131.5	8365.0	5279.3
45°	7479.0	7498.3	7555.4	7459.7	7320.9	7559.8	7606.3	8748.8	8914.8	9303.8	5820.2
47.5°	7890.0	7935.6	7951.4	7863.6	7800.4	8185.0	8281.6	9453.9	9686.6	10309.2	6392.8
50°	8413.3	8425.6	8452.9	8395.8	8332.6	8722.4	8887.5	10194.2	10405.8	11318.2	6957.4
52.5°	8925.3	8969.2	9064.0	9028.0	9002.6	9179.9	9427.6	10861.6	11097.8	12159.4	7521.2
55°	9072.8	9110.6	9438.1	9662.0	9869.3	9743.7	9943.9	11459.6	11715.1	12911.1	8063.8
57.5°	8483.6	8560.0	9127.3	9710.3	10570.0	10620.1	10653.4	12073.4	12302.6	13487.2	8628.5
60°	6994.3	7009.2	7940.0	8940.2	10454.1	11384.9	11689.6	12732.9	12925.2	14023.7	9304.6
62.5°	4448.6	4600.5	5621.8	7033.8	9228.2	11274.3	12942.7	13730.4	13800.7	14667.4	10274.1
65°	2118.9	2217.3	2953.1	4345.9	6684.3	9857.9	13807.7	15535.0	15566.6	15943.3	11569.3
67.5°	1173.2	1220.6	1571.0	2339.3	3907.7	6971.5	13458.2	17672.3	17702.2	17246.4	12705.6
69°	917.6	958.0	1233.8	1763.3	2649.3	5010.6	12178.8	18298.4	18387.1	17619.6	12746.0
70°	778.9	818.4	1062.5	1489.3	2130.3	3871.7	10840.5	18143.0	18237.0	17584.5	12444.8
72.5°	476.8	499.7	707.8	1048.5	1427.8	1947.7	6685.2	15343.5	15502.5	16130.3	10695.6
75°	321.4	333.7	442.6	723.6	1021.3	1002.8	3473.0	10815.0	11159.2	12547.6	7899.6
77.5°	230.1	241.5	296.8	468.0	715.7	662.1	1572.7	6721.2	6795.0	7525.6	4308.1
80°	130.8	141.4	209.9	278.4	485.6	441.7	625.2	3210.4	3247.3	3227.1	1438.4
82.5°	68.5	77.3	115.0	183.5	311.7	288.9	259.9	1074.8	1080.1	898.3	315.2
85°	13.2	15.8	57.1	125.6	160.7	125.6	106.3	252.0	257.3	227.4	78.2
87.5°	0.0	0.9	22.8	28.1	31.6	32.5	34.2	49.2	52.7	71.1	21.1
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°	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0	2104.0
2.5°	2113.7	2082.0	2021.4	1951.2	1896.8	1843.2	1801.0	1757.1	1741.3	1733.4	1732.5
5°	2134.7	2068.0	1939.8	1808.1	1700.1	1598.2	1525.3	1455.9	1423.4	1408.5	1402.4
7.5°	2169.9	2062.7	1856.4	1655.3	1499.8	1372.5	1271.5	1196.0	1158.3	1142.4	1136.3
10°	2211.1	2055.7	1758.9	1493.7	1295.2	1163.5	1063.4	988.8	947.5	929.9	921.2
12.5°	2259.4	2043.4	1646.5	1330.4	1120.5	988.8	867.6	775.4	728.0	707.8	698.1
15°	2319.1	2031.1	1528.8	1176.7	966.8	806.1	673.5	611.2	601.5	598.0	598.9
17.5°	2378.0	2011.8	1400.6	1024.8	805.2	629.6	562.0	558.5	560.2	560.2	560.2
20°	2430.7	1967.9	1261.0	894.8	651.6	531.3	517.2	511.1	506.7	503.2	498.8
22.5°	2471.9	1909.0	1126.6	765.7	532.1	486.5	464.5	445.2	429.4	418.9	413.6
25°	2500.0	1830.9	1003.7	641.9	478.6	442.6	403.1	370.6	346.0	331.1	324.9
27.5°	2521.1	1746.6	893.9	537.4	441.7	391.6	339.8	301.2	275.7	262.6	257.3
30°	2536.0	1650.9	797.3	472.4	400.4	338.1	282.8	245.0	226.6	219.5	216.0
32.5°	2550.1	1544.6	706.0	441.7	361.8	288.9	237.1	208.1	196.7	187.9	185.3
35°	2585.2	1446.3	619.1	409.2	322.3	246.8	203.7	182.7	171.2	166.0	164.2
37.5°	2668.6	1373.4	535.7	375.8	282.8	213.4	178.3	163.3	152.8	147.5	145.8
40°	2803.0	1336.5	465.4	339.8	244.1	187.9	161.6	147.5	136.1	128.2	126.5
42.5°	3000.6	1341.8	416.2	303.8	213.4	167.7	145.8	129.1	116.8	109.8	108.0
45°	3240.3	1380.4	382.0	268.7	187.9	151.9	128.2	110.6	99.2	93.1	91.3
47.5°	3500.2	1442.8	353.9	237.1	167.7	137.0	110.6	92.2	82.5	77.3	76.4
50°	3774.2	1503.4	324.9	206.4	150.2	122.1	93.1	76.4	68.5	64.1	62.3
52.5°	4051.7	1573.6	298.6	178.3	135.2	104.5	77.3	62.3	56.2	52.7	50.9
55°	4350.2	1626.3	273.1	156.3	120.3	88.7	64.1	51.8	46.5	42.2	41.3
57.5°	4701.5	1708.0	246.8	135.2	102.7	73.8	52.7	41.3	36.9	32.5	31.6
60°	5175.7	1803.7	218.7	119.4	84.3	60.6	43.0	33.4	28.1	24.6	23.7
62.5°	5800.9	1909.9	183.5	104.5	68.5	49.2	34.2	26.3	20.2	15.8	15.8
65°	6593.9	2082.9	150.2	87.8	56.2	40.4	26.3	19.3	11.4	7.0	7.0
67.5°	7056.6	2112.8	121.2	72.0	45.7	34.2	22.0	13.2	3.5	0.9	0.0
69°	6908.2	1939.8	102.7	61.5	39.5	32.5	20.2	9.7	1.8	0.0	0.0
70°	6629.0	1773.8	90.4	54.4	36.0	30.7	19.3	7.0	1.8	0.0	0.0
72.5°	5477.8	1262.7	68.5	40.4	26.3	27.2	17.6	4.4	1.8	0.0	0.0
75°	3990.2	767.5	49.2	28.1	16.7	20.2	12.3	1.8	0.9	0.0	0.0
77.5°	2219.9	361.8	30.7	15.8	10.5	12.3	6.1	0.0	0.0	0.0	0.0
80°	720.9	98.4	14.1	8.8	6.1	7.0	2.6	0.0	0.0	0.0	0.0
82.5°	133.5	28.1	7.9	4.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.0	11.4	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.5	0.9	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)