

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: P383124

Luminaire Tested: **GLEON-SA4C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20441.9 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

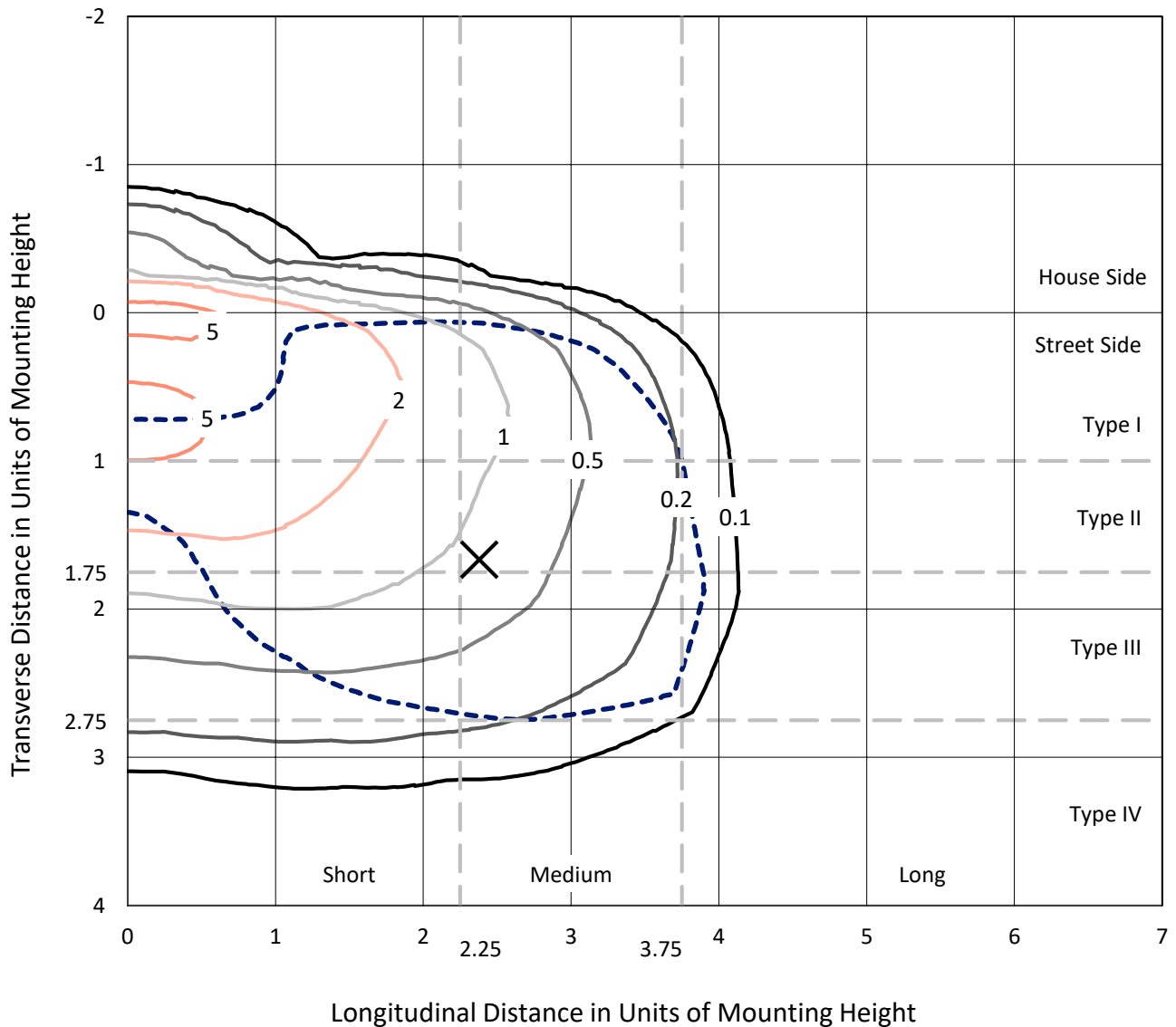
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

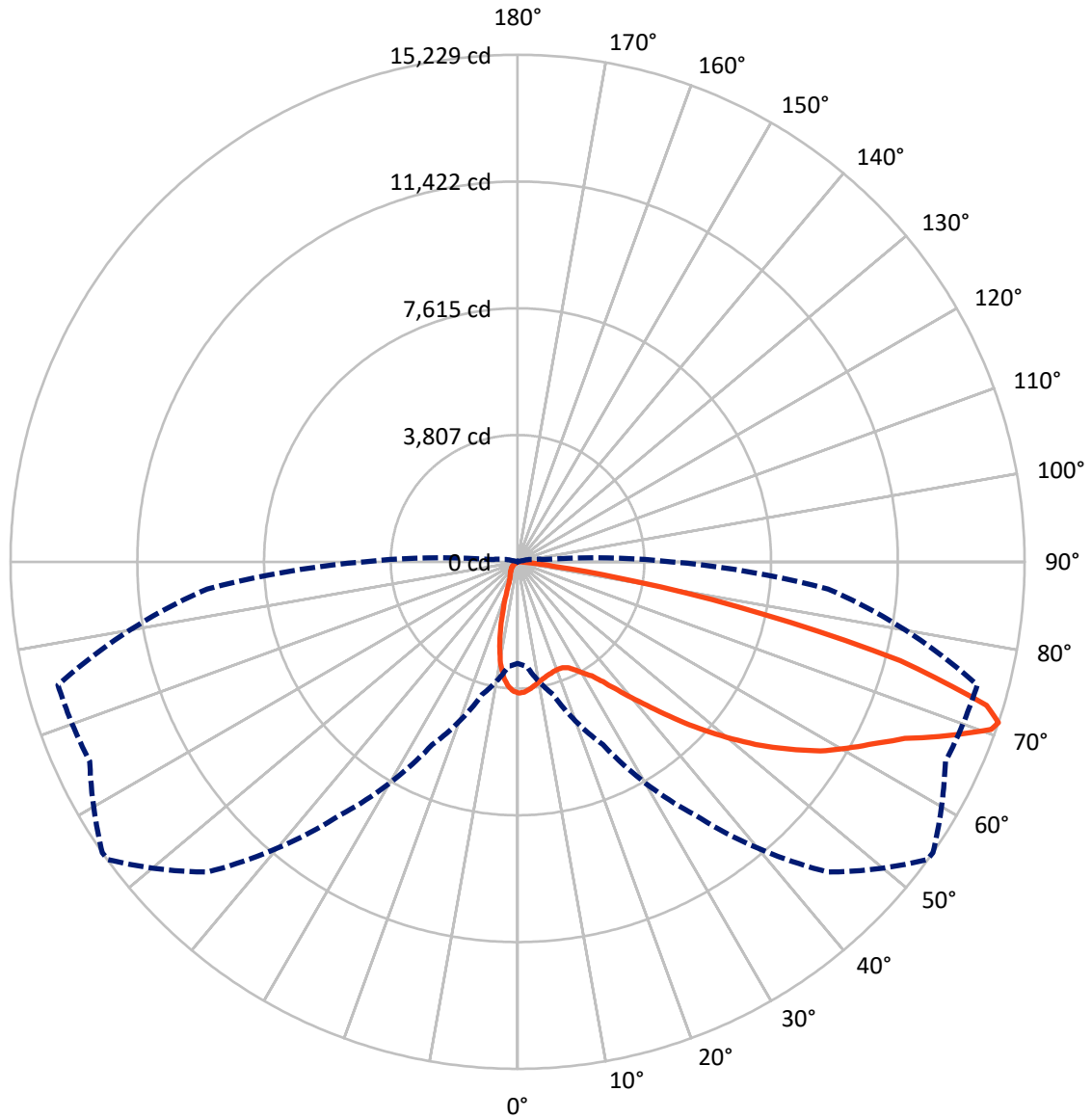
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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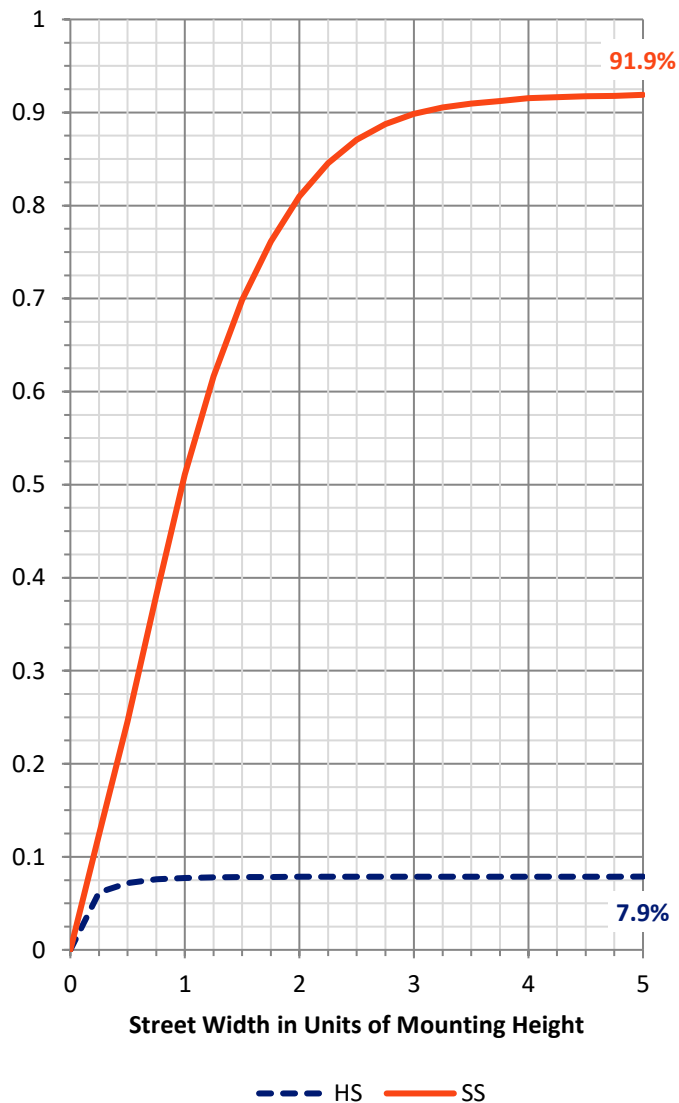
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1618.4	0.0	1618.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	18823.5	0.0	18823.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	20441.9	0.0	20441.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.1	1.6
10°-20°	758.8	3.7
20°-30°	1219.5	6.0
30°-40°	2072.0	10.1
40°-50°	3216.0	15.7
50°-60°	4323.8	21.2
60°-70°	5289.4	25.9
70°-80°	3092.6	15.1
80°-90°	133.7	0.7
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°	20441.9	100.0
0°-180°	20441.9	100.0

Coefficient of Utilization

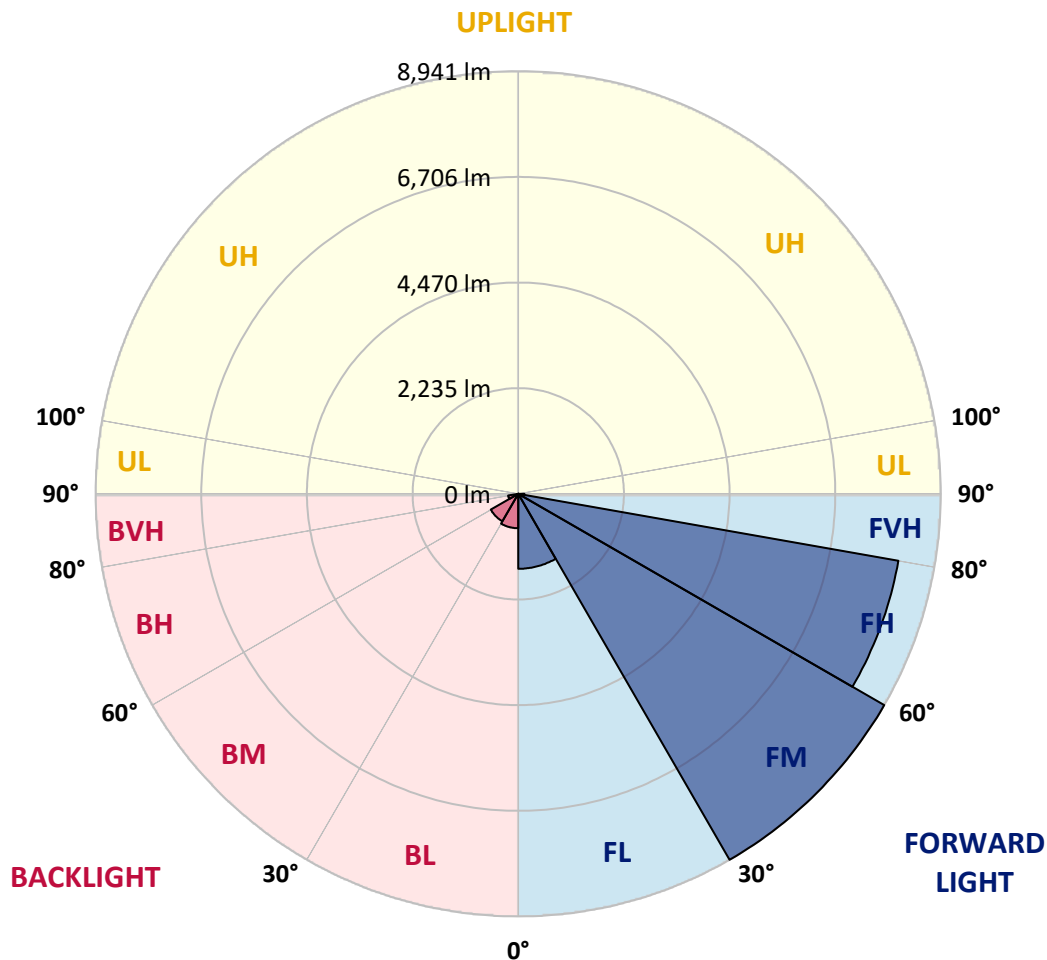


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.0	7.8			
FM (30°-60°)	8940.7	43.7			
FH (60°-80°)	8165.2	39.9			G4/12000
FVH (80°-90°)	131.6	0.6			G2/225
BL (0°-30°)	728.5	3.6	B2/1000		
BM (30°-60°)	671.0	3.3	B1/1000		
BH (60°-80°)	216.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3
2.5°	3826.6	3831.3	3847.8	3855.1	3872.5	3901.9	3916.6	3917.5	3941.4	3950.5	3957.9
5°	3555.9	3583.4	3611.0	3640.3	3693.6	3764.2	3834.0	3840.4	3917.5	3974.4	4004.7
7.5°	3322.7	3347.5	3380.6	3427.3	3502.6	3613.7	3730.3	3744.0	3890.0	4019.3	4087.4
10°	3083.1	3103.4	3151.1	3219.9	3323.7	3472.3	3629.3	3652.2	3865.2	4080.0	4199.3
12.5°	2827.1	2839.0	2896.8	2996.0	3148.4	3337.4	3543.9	3574.3	3849.6	4149.8	4331.5
15°	2632.5	2638.0	2693.0	2795.9	2970.2	3216.3	3477.8	3514.5	3853.3	4233.2	4475.6
17.5°	2582.9	2585.7	2615.0	2685.7	2839.9	3107.9	3425.5	3470.5	3864.2	4314.9	4620.6
20°	2783.9	2764.6	2734.4	2723.4	2789.4	3042.8	3394.3	3444.8	3879.0	4387.5	4751.0
22.5°	3335.6	3278.7	3152.9	2985.0	2883.0	3047.4	3402.6	3453.1	3925.7	4476.5	4901.4
25°	4154.3	4075.4	3861.5	3531.1	3213.5	3179.6	3471.4	3522.8	4016.6	4582.9	5045.5
27.5°	5086.0	5007.9	4746.3	4274.6	3733.0	3441.1	3629.3	3677.0	4151.5	4677.5	5155.7
30°	5978.1	5956.1	5647.7	5111.7	4386.6	3865.2	3833.0	3873.5	4251.6	4734.4	5242.9
32.5°	6734.4	6699.6	6451.8	5930.4	5134.6	4374.6	4072.6	4084.6	4326.9	4807.8	5356.8
35°	7435.7	7392.6	7175.1	6682.2	5902.0	4996.9	4441.6	4424.2	4491.2	4955.6	5521.9
37.5°	8047.9	8087.4	7846.1	7377.0	6590.3	5644.1	4939.1	4886.8	4748.2	5196.1	5761.5
40°	8560.2	8560.2	8434.4	8043.4	7333.9	6313.2	5501.7	5433.0	5134.6	5566.9	6065.3
42.5°	8744.6	8784.1	8830.9	8609.7	7999.3	7009.0	6128.7	6057.1	5678.9	6092.9	6449.0
45°	8755.6	8818.0	9057.6	9056.7	8600.5	7700.1	6835.4	6801.5	6376.5	6768.4	6924.5
47.5°	8600.5	8678.6	9073.3	9297.2	9076.9	8343.5	7608.3	7566.0	7196.2	7596.4	7422.0
50°	8360.9	8447.3	8906.2	9391.8	9400.9	8903.5	8422.5	8359.1	8098.4	8542.7	7935.9
52.5°	7932.3	8099.3	8756.5	9413.8	9613.9	9387.1	9197.2	9169.6	9108.1	9454.2	8345.4
55°	7015.4	7200.8	8381.1	9421.1	9811.2	9815.8	9923.2	9930.6	10054.5	10306.0	8650.1
57.5°	6582.1	6686.7	7725.8	9456.0	10104.0	10302.3	10663.0	10719.9	10911.8	11114.6	8998.0
60°	6309.5	6433.5	7402.7	9408.3	10563.8	10940.2	11348.7	11368.0	11573.5	11949.0	9468.8
62.5°	6091.9	6214.1	7198.9	9224.7	11080.7	11707.5	12018.7	12020.5	12174.8	12943.0	10004.0
65°	5555.0	5657.8	6786.8	9018.1	11422.1	12466.6	12797.0	12785.1	12910.9	13991.2	10625.3
67.5°	4778.5	4857.5	5945.1	8235.3	11293.6	13156.9	13971.9	13932.5	13780.1	14897.2	10869.5
70°	3694.4	3722.9	4685.8	6863.0	10089.3	13422.1	15107.4	15087.2	14313.4	14734.8	9974.5
71°	3053.8	3147.4	4129.6	6057.1	9282.5	13177.1	15217.5	15229.4	14179.4	14292.3	9358.7
72.5°	1773.4	1853.2	2993.2	4651.8	7880.9	12154.6	14646.6	14732.9	13553.4	12999.9	7993.8
75°	380.0	406.6	1109.8	2251.6	4335.1	8518.8	11560.7	11868.2	11046.7	8843.7	4818.0
77.5°	264.4	285.4	475.5	1021.6	1432.8	4209.4	7181.5	7528.5	6599.5	3323.7	1542.0
80°	209.3	233.2	370.8	504.8	387.3	1357.5	3364.0	3576.0	2201.1	741.6	259.7
82.5°	116.5	138.6	289.2	272.6	148.7	257.9	941.7	1064.8	440.6	149.6	61.5
85°	34.0	41.3	186.3	198.2	63.3	49.6	160.6	199.2	83.6	39.5	27.6
87.5°	0.0	0.0	90.0	76.2	18.4	7.4	14.7	16.5	16.5	16.5	18.4
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°	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3
2.5°	3957.9	3964.3	3941.4	3911.1	3879.0	3839.5	3798.2	3766.1	3765.1	3749.6	3733.9
5°	4006.6	4002.9	3939.5	3843.2	3729.4	3611.0	3498.1	3370.4	3328.2	3275.9	3258.5
7.5°	4096.5	4070.8	3936.8	3725.6	3476.0	3228.2	2972.1	2714.2	2604.0	2504.9	2487.4
10°	4209.4	4160.8	3919.3	3549.5	3091.4	2634.3	2247.9	1897.3	1743.0	1624.6	1619.1
12.5°	4326.9	4252.5	3870.7	3283.2	2587.5	1945.0	1499.8	1154.7	1026.2	943.6	950.9
15°	4449.9	4338.8	3766.1	2924.4	2013.8	1319.9	921.6	718.7	667.3	646.2	651.7
17.5°	4575.7	4398.5	3620.1	2492.1	1447.5	851.8	637.9	581.0	581.0	585.6	587.4
20°	4684.8	4430.6	3405.4	2007.4	981.2	620.5	558.1	549.8	554.4	561.7	562.7
22.5°	4793.2	4432.4	3125.3	1516.4	686.6	543.4	531.4	527.8	530.5	538.8	539.7
25°	4881.3	4410.4	2774.7	1078.5	547.9	512.2	506.7	504.8	506.7	516.7	516.7
27.5°	4917.1	4330.6	2347.0	758.2	491.0	477.3	475.5	477.3	480.0	487.4	488.3
30°	4920.7	4191.0	1880.7	548.9	445.2	430.5	434.2	440.6	437.8	436.0	437.8
32.5°	4929.9	4029.5	1426.4	451.6	406.6	383.7	379.0	379.0	368.1	361.6	358.0
35°	4960.2	3839.5	1034.5	405.7	367.1	340.6	323.1	302.9	281.8	270.8	268.0
37.5°	5007.9	3640.3	740.8	375.4	332.3	302.0	268.9	233.2	202.9	194.6	194.6
40°	5095.1	3434.7	547.9	351.6	304.7	267.1	217.5	170.8	143.2	138.6	138.6
42.5°	5232.8	3218.1	436.9	330.4	280.9	231.3	166.1	123.9	103.7	101.0	100.0
45°	5376.1	2979.5	381.8	310.2	255.2	190.0	123.0	91.8	79.8	77.1	77.1
47.5°	5519.2	2725.1	355.2	290.9	230.4	147.7	91.8	72.5	67.0	67.0	67.9
50°	5640.3	2459.9	335.9	269.9	198.2	112.0	72.5	61.5	59.6	63.3	64.3
52.5°	5670.6	2199.2	312.1	243.2	158.8	85.3	59.6	54.1	54.1	54.1	54.1
55°	5652.3	1997.3	280.9	210.2	117.5	67.9	51.4	47.7	46.9	46.9	46.9
57.5°	5714.7	1878.0	224.9	163.4	84.5	55.1	45.0	42.2	40.4	39.5	39.5
60°	5840.4	1799.9	160.6	117.5	63.3	45.9	38.6	35.8	33.1	31.2	31.2
62.5°	6007.6	1732.0	119.3	87.2	48.6	36.7	32.1	29.3	25.7	23.8	23.8
65°	6136.0	1610.8	90.8	65.2	36.7	29.3	24.8	23.8	18.4	16.5	15.6
67.5°	5939.6	1344.7	73.4	47.7	27.6	22.9	19.3	18.4	11.0	9.2	9.2
70°	5094.3	936.2	58.8	34.8	20.2	18.4	15.6	11.9	8.3	7.4	7.4
71°	4619.7	782.0	53.2	29.3	17.4	17.4	14.7	10.1	7.4	6.4	6.4
72.5°	3837.7	555.3	45.0	22.9	15.6	18.4	15.6	9.2	7.4	6.4	5.5
75°	2227.7	232.2	31.2	15.6	11.9	22.0	20.2	8.3	5.5	4.6	4.6
77.5°	670.1	85.3	17.4	10.1	9.2	19.3	22.9	7.4	2.8	0.9	0.9
80°	122.0	36.7	11.0	6.4	6.4	11.9	17.4	3.6	0.0	0.0	0.0
82.5°	43.1	18.4	6.4	3.6	2.8	5.5	8.3	0.0	0.0	0.0	0.0
85°	24.8	12.9	3.6	1.9	0.0	0.9	1.9	0.0	0.0	0.0	0.0
87.5°	16.5	3.6	0.0	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)