

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: P324928

Luminaire Tested: **GLEON-SA4C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17170 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

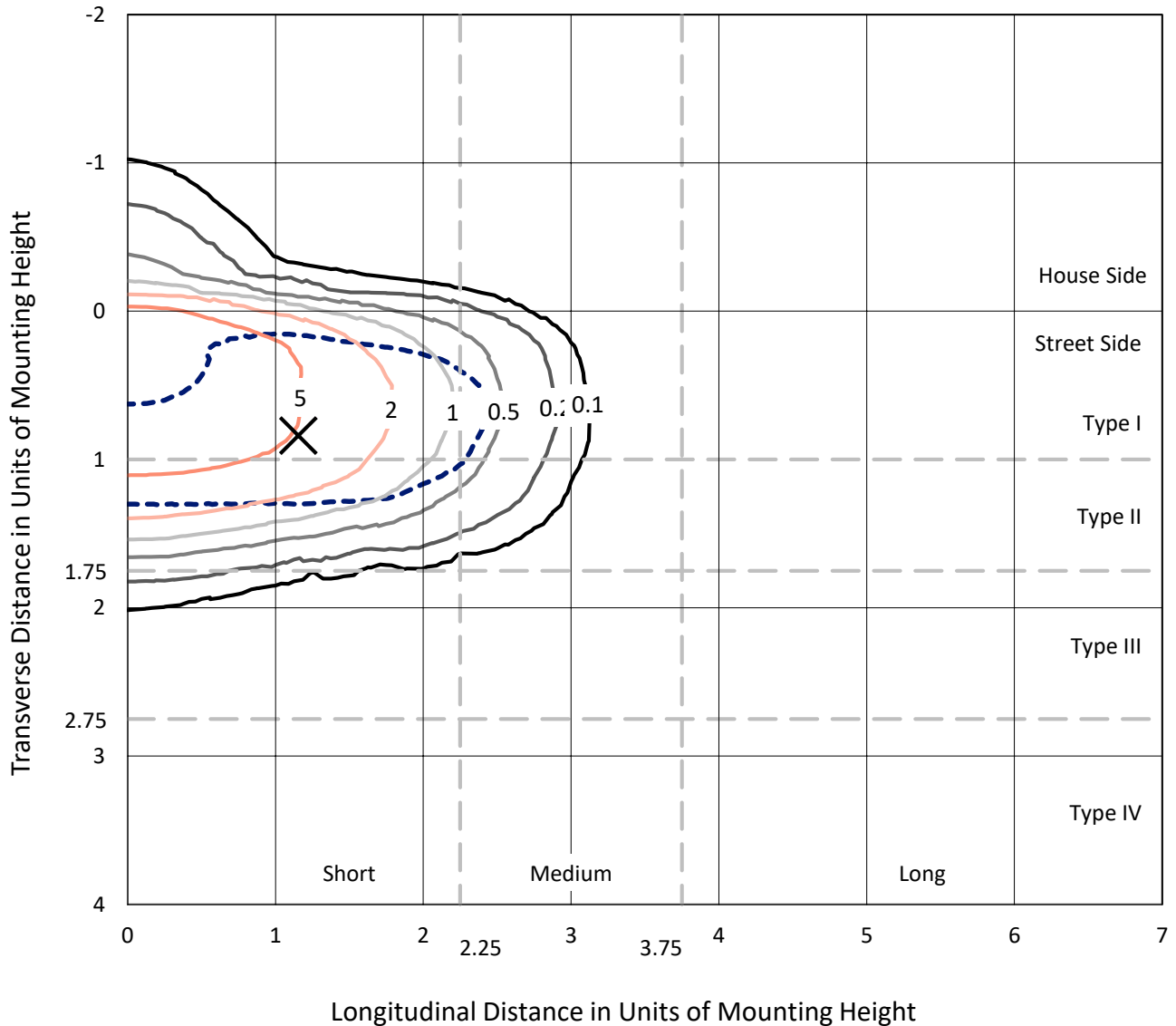
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324928
 CATALOG NUMBER: GLEON-SA4C-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

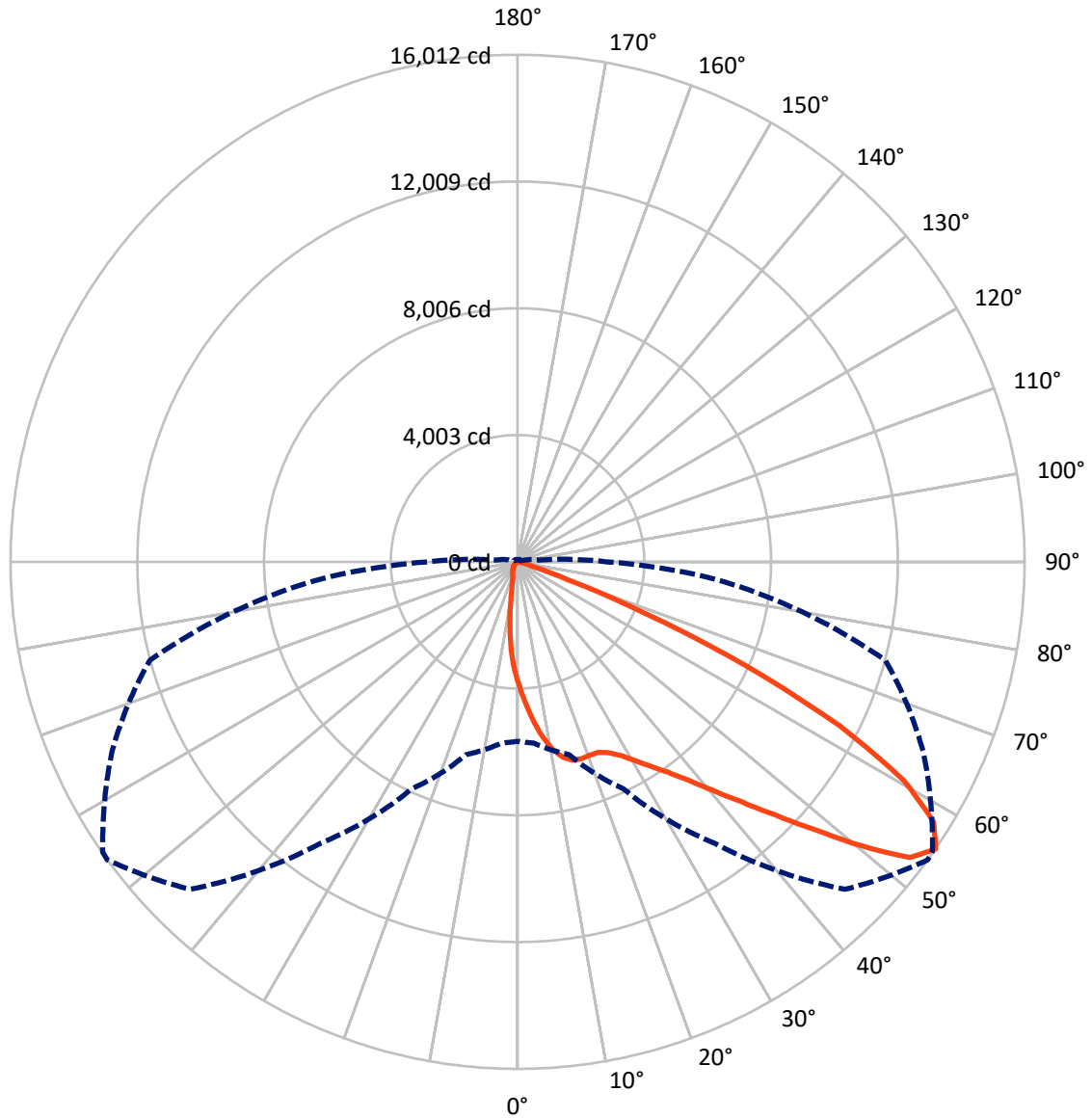
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P324928
CATALOG NUMBER: GLEON-SA4C-827-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: GLEON-SA4C-827-U-AFL-HSS

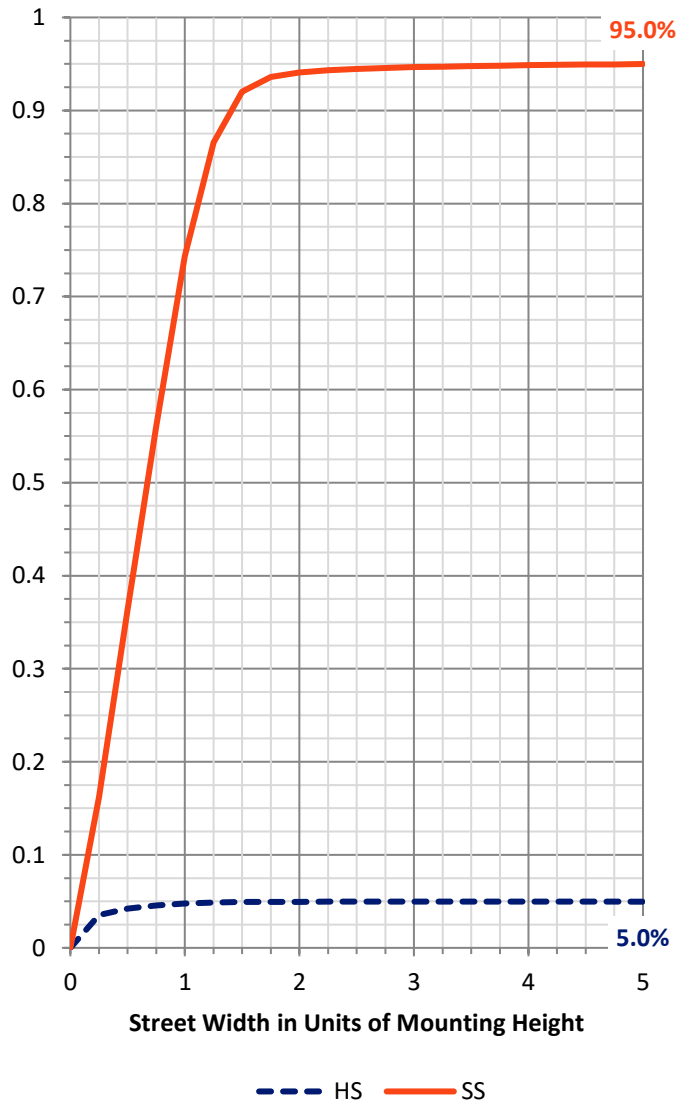
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.7	0.0	856.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16313.3	0.0	16313.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	17170.0	0.0	17170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	2.1
10°-20°	971.2	5.7
20°-30°	1658.1	9.7
30°-40°	2661.0	15.5
40°-50°	4252.3	24.8
50°-60°	4556.4	26.5
60°-70°	2339.4	13.6
70°-80°	354.4	2.1
80°-90°	23.1	0.1
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°	17170.0	100.0
0°-180°	17170.0	100.0

Coefficient of Utilization

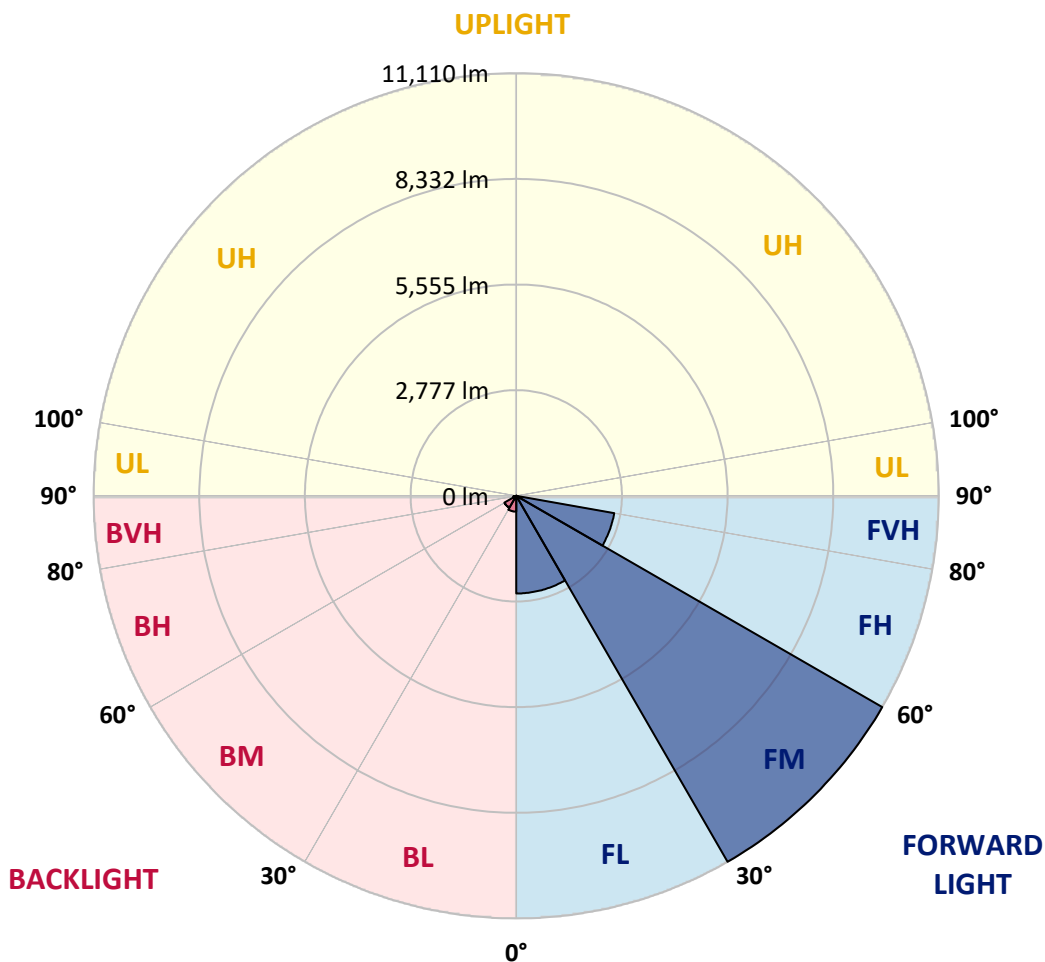


REPORT NUMBER: P324928
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2566.6	14.9			
FM (30°-60°)	11109.7	64.7			
FH (60°-80°)	2614.8	15.2			G2/5000
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	416.8	2.4	B1/500		
BM (30°-60°)	360.0	2.1	B1/1000		
BH (60°-80°)	78.9	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2
 Type II Short





REPORT NUMBER: P324928

CATALOG NUMBER: GLEON-SA4C-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4
2.5°	4825.6	4753.7	4755.9	4723.3	4603.9	4510.5	4413.4	4390.4	4239.1	4080.4	3927.7
5°	5659.8	5607.2	5594.6	5531.5	5365.5	5189.7	5001.4	4957.6	4661.8	4337.0	4017.4
7.5°	6088.4	6089.2	6078.8	6055.8	5952.0	5781.4	5551.6	5505.6	5103.0	4615.8	4110.8
10°	5963.8	5992.0	6049.9	6126.2	6205.6	6184.1	6011.3	5969.8	5532.3	4910.9	4214.7
12.5°	5673.2	5676.9	5741.4	5866.7	6095.1	6329.4	6332.4	6318.3	5942.3	5219.4	4328.8
15°	5528.6	5542.7	5566.4	5647.2	5863.7	6238.9	6507.4	6527.4	6318.3	5547.1	4450.5
17.5°	5623.5	5643.5	5623.5	5633.1	5758.4	6095.8	6537.8	6588.9	6646.8	5871.2	4565.4
20°	5880.8	5899.3	5863.7	5824.4	5848.9	6054.3	6516.3	6585.2	6904.1	6158.9	4661.8
22.5°	6227.8	6235.2	6181.1	6116.6	6098.8	6195.2	6534.1	6605.2	7110.2	6419.1	4722.6
25°	6609.7	6616.4	6548.9	6474.7	6432.5	6471.8	6680.1	6733.5	7291.9	6667.5	4757.4
27.5°	7025.7	7031.6	6947.1	6855.9	6806.9	6808.4	6921.1	6978.2	7485.4	6950.8	4785.6
30°	7465.4	7462.4	7384.5	7257.7	7195.5	7194.0	7268.1	7326.0	7765.7	7314.1	4824.2
32.5°	7959.2	7953.3	7842.8	7685.6	7615.1	7625.5	7691.5	7724.9	8113.4	7701.2	4893.1
35°	8609.5	8592.4	8425.6	8230.6	8100.8	8097.1	8152.7	8179.4	8556.8	8169.8	5008.1
37.5°	9453.3	9437.7	9211.6	8928.3	8745.9	8677.7	8743.7	8777.8	9189.3	8771.1	5192.7
40°	10285.3	10269.7	10135.5	9876.0	9594.9	9431.1	9483.0	9519.3	9979.0	9500.8	5425.5
42.5°	10859.2	10872.5	10919.2	10940.8	10677.5	10333.5	10357.2	10395.0	10808.8	10280.8	5691.7
45°	11010.5	11039.4	11303.3	11821.6	11920.3	11651.8	11403.4	11424.2	11651.8	11060.9	5957.9
47.5°	10555.9	10609.3	11118.7	12082.7	12917.6	13107.4	12637.3	12609.9	12460.8	11691.9	6147.0
50°	9523.0	9572.0	10231.9	11657.8	13220.1	14497.0	14115.8	14035.0	13170.4	12069.3	6213.7
52.5°	8028.2	8087.5	8623.6	10320.1	12649.9	15116.9	15515.8	15448.3	13691.0	12099.0	6224.8
55°	5669.5	5741.4	6308.6	7909.5	10842.9	14623.8	16011.8	15991.8	14123.2	12020.4	6248.6
57.5°	3186.2	3238.1	3849.8	5070.3	7941.4	12737.4	15493.5	15626.3	14384.3	11883.9	6284.2
60°	1414.8	1428.9	1745.5	2524.0	4649.2	9734.3	14009.8	14233.7	14160.3	11701.5	6344.2
62.5°	784.5	772.6	772.6	1049.2	2020.6	6026.1	11424.2	11794.2	13204.5	11485.8	6347.2
65°	614.7	603.6	571.7	576.1	769.7	2674.6	7911.0	8568.7	11389.4	10853.3	6133.6
67.5°	521.3	511.6	479.7	467.1	478.3	882.4	4346.6	5029.6	8642.1	9209.4	5312.8
70°	440.4	433.8	417.5	401.9	373.7	436.0	1663.2	2127.3	5325.4	6126.2	3626.6
72.5°	354.4	351.5	357.4	344.1	309.9	290.7	568.7	688.8	2392.1	2733.9	1494.1
75°	305.5	304.0	307.0	293.6	255.1	202.4	289.2	315.9	674.8	668.8	302.5
77.5°	198.7	200.9	254.3	248.4	219.5	135.0	149.8	161.6	204.7	153.5	91.9
80°	126.8	125.3	129.0	206.1	197.2	103.1	74.9	78.6	98.6	75.6	44.5
82.5°	77.1	75.6	84.5	96.4	99.4	71.9	46.0	46.7	61.5	48.9	23.7
85°	6.7	8.9	51.2	47.5	34.1	22.2	22.2	23.7	32.6	28.9	13.3
87.5°	0.0	0.0	8.9	13.3	7.4	8.2	8.2	8.9	12.6	12.6	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324928

CATALOG NUMBER: GLEON-SA4C-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4	3845.4
2.5°	3848.4	3771.2	3615.5	3465.7	3339.0	3216.6	3077.2	2939.3	2874.8	2848.8	2822.1
5°	3855.0	3696.4	3375.3	3052.0	2716.8	2415.0	2157.7	1893.8	1761.8	1704.0	1677.3
7.5°	3863.9	3622.2	3103.2	2560.4	2020.6	1611.3	1253.9	1024.0	924.6	909.1	870.5
10°	3865.4	3532.5	2787.3	2017.6	1354.7	971.4	747.4	628.8	585.0	577.6	565.0
12.5°	3868.4	3426.4	2436.6	1494.1	903.1	649.5	540.5	501.3	489.4	488.6	488.6
15°	3877.3	3315.2	2072.5	1076.7	648.8	514.6	474.6	459.0	454.5	456.8	456.0
17.5°	3877.3	3184.0	1715.1	802.3	524.2	462.7	440.4	430.1	428.6	430.8	431.5
20°	3849.1	3024.6	1387.3	624.3	464.9	429.3	409.3	399.7	396.0	397.4	398.2
22.5°	3781.6	2828.8	1120.4	516.8	425.6	398.9	377.4	362.6	356.7	357.4	357.4
25°	3676.3	2596.7	876.4	447.1	393.7	366.3	341.1	324.0	320.3	319.6	321.1
27.5°	3541.4	2340.2	697.7	393.7	355.9	330.0	304.8	290.7	287.7	288.4	289.2
30°	3408.7	2074.0	550.2	348.5	313.7	289.2	269.9	263.2	263.2	265.5	266.2
32.5°	3287.0	1818.1	435.3	309.2	275.8	253.6	242.5	241.7	245.4	246.9	247.7
35°	3182.5	1581.6	360.4	278.8	246.2	226.9	223.2	226.2	230.6	233.6	234.3
37.5°	3108.3	1370.3	315.1	253.6	223.2	207.6	206.9	212.8	218.7	225.4	226.9
40°	3077.2	1191.6	284.0	231.3	204.7	192.8	190.6	198.7	209.8	219.5	221.0
42.5°	3051.3	1045.5	257.3	209.8	189.8	172.8	172.0	182.4	195.8	205.4	207.6
45°	3029.0	928.4	232.8	186.9	170.5	148.3	150.5	163.9	174.3	184.6	186.9
47.5°	2983.0	832.0	206.1	162.4	140.9	126.8	131.2	143.1	151.3	166.8	169.1
50°	2900.7	753.4	178.7	132.7	114.9	109.7	116.4	124.6	135.0	148.3	149.8
52.5°	2845.1	694.0	155.0	111.2	94.9	96.4	103.1	106.0	112.0	117.2	115.7
55°	2813.2	661.4	135.7	96.4	80.8	85.3	86.8	83.0	80.1	74.9	72.7
57.5°	2809.5	631.8	120.9	83.8	71.2	73.4	68.2	55.6	45.2	39.3	37.8
60°	2803.6	595.4	109.0	70.4	63.0	60.1	48.9	30.4	21.5	20.0	20.0
62.5°	2739.1	539.1	100.1	59.3	53.4	45.2	28.2	14.1	11.9	12.6	12.6
65°	2533.7	460.5	91.2	48.2	42.3	32.6	14.1	8.2	4.4	5.2	5.2
67.5°	2154.0	367.0	81.6	37.1	31.9	20.8	8.2	3.7	0.0	0.0	0.0
70°	1442.2	227.6	69.0	26.0	20.8	12.6	5.9	0.7	0.0	0.0	0.0
72.5°	553.2	123.1	55.6	15.6	13.3	8.9	3.7	0.0	0.0	0.0	0.0
75°	124.6	80.8	38.6	11.1	9.6	5.9	1.5	0.0	0.0	0.0	0.0
77.5°	47.5	58.6	22.2	7.4	6.7	3.7	0.0	0.0	0.0	0.0	0.0
80°	23.0	34.9	10.4	4.4	3.7	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	13.3	4.4	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	6.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.2	0.7	0.7	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)