

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: P324929

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324929
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-SA5C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21274 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

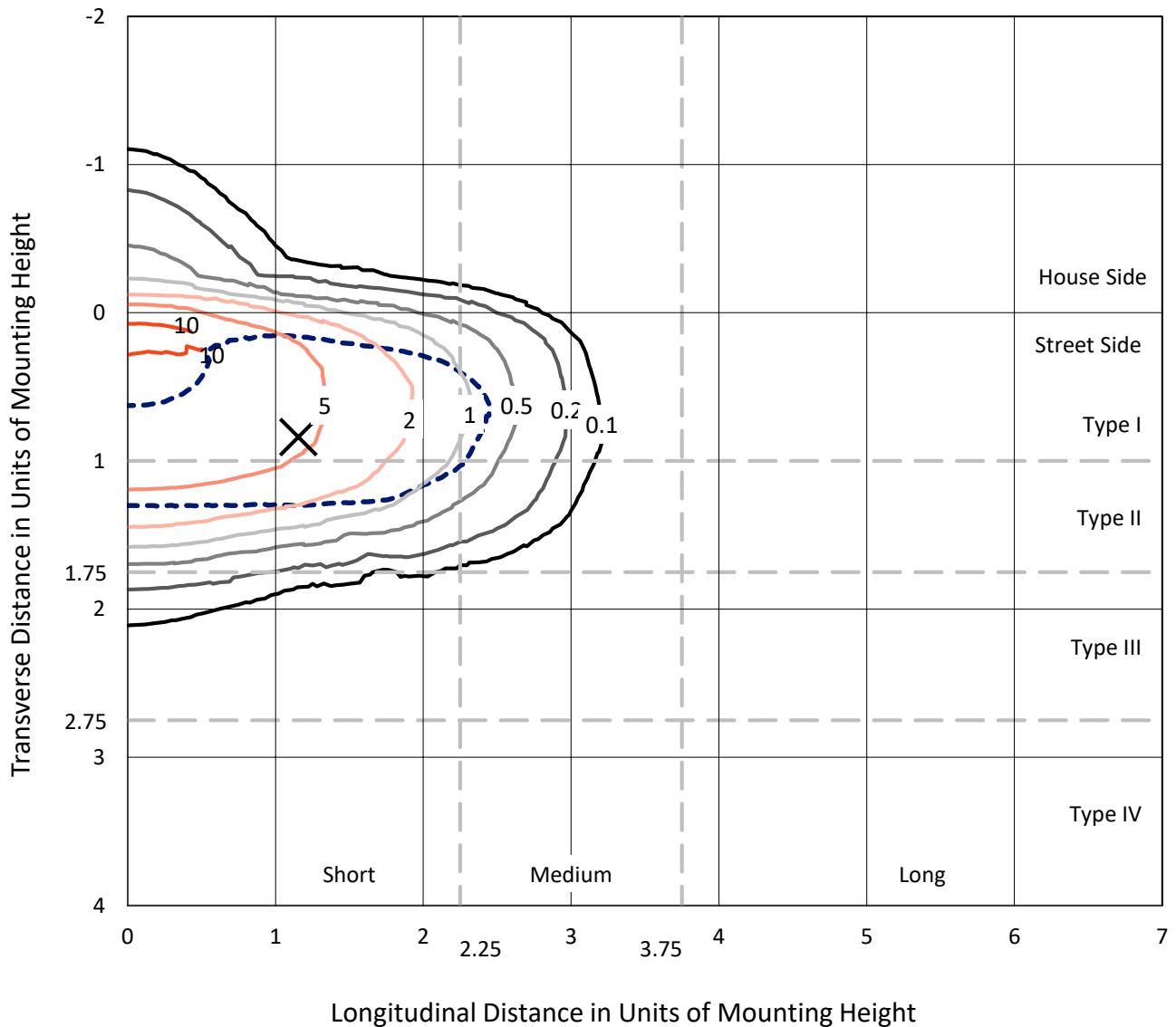
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324929
 CATALOG NUMBER: GLEON-SA5C-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

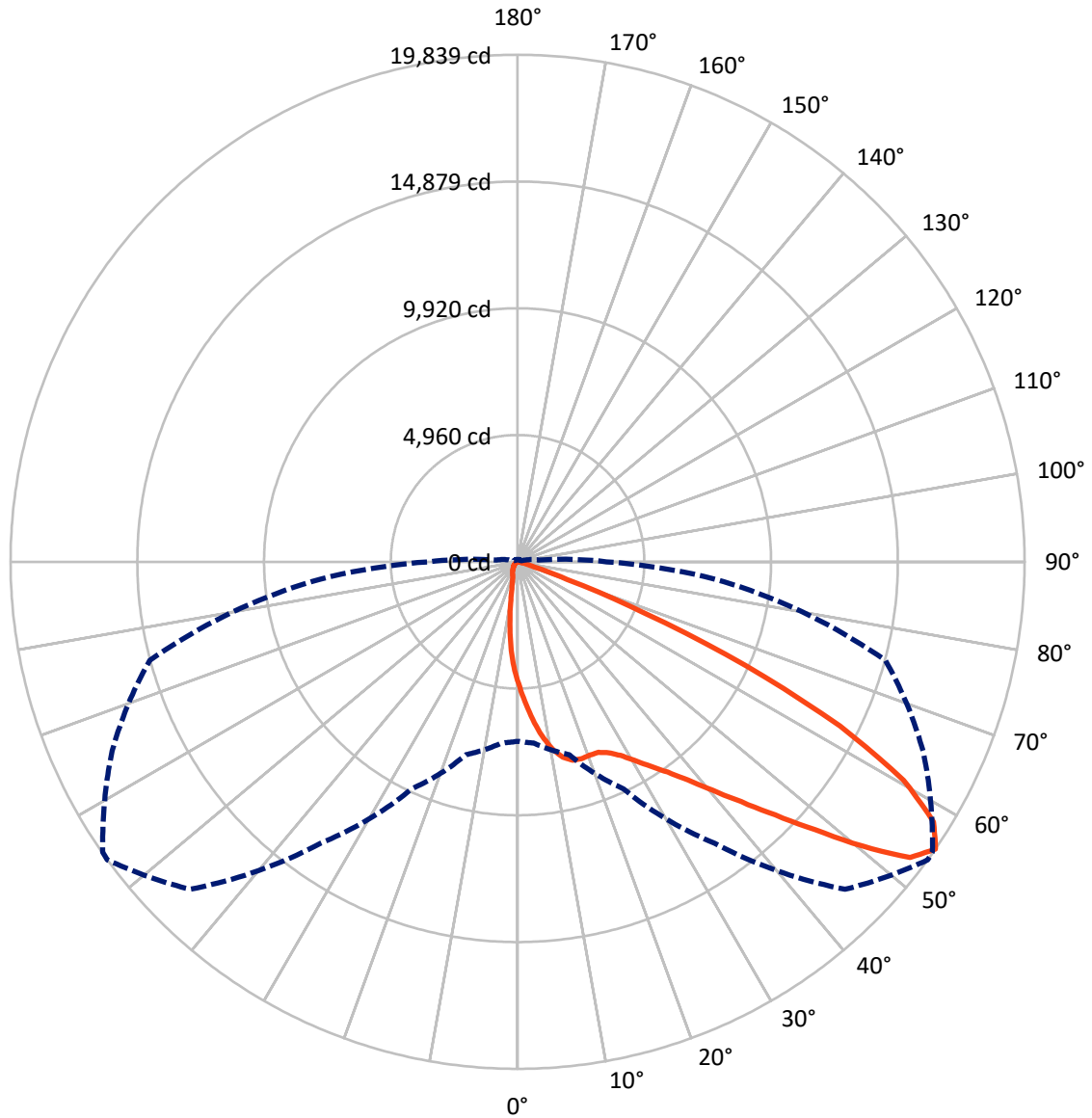
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P324929
CATALOG NUMBER: GLEON-SA5C-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-SA5C-827-U-AFL-HSS

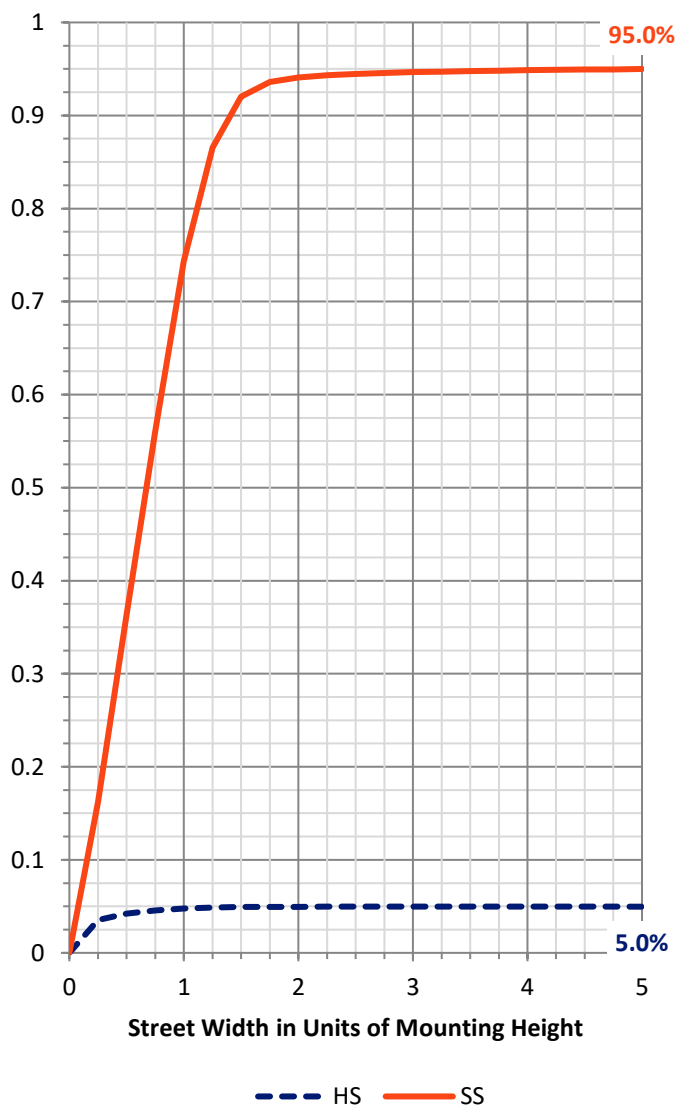
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.4	0.0	1061.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20212.6	0.0	20212.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	21274.0	0.0	21274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	2.1
10°-20°	1203.3	5.7
20°-30°	2054.4	9.7
30°-40°	3297.0	15.5
40°-50°	5268.7	24.8
50°-60°	5645.5	26.5
60°-70°	2898.6	13.6
70°-80°	439.1	2.1
80°-90°	28.6	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°	21274.0	100.0
0°-180°	21274.0	100.0

Coefficient of Utilization

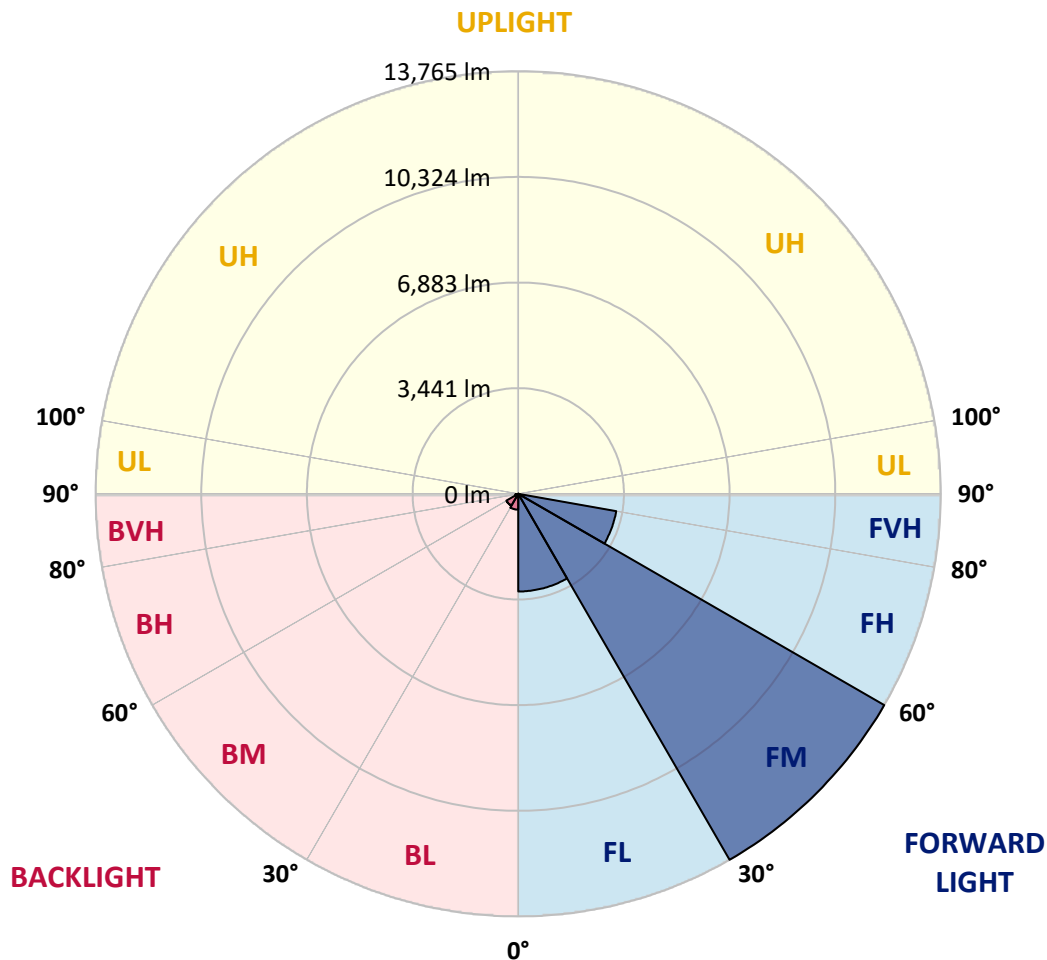


REPORT NUMBER: P324929
 CATALOG NUMBER: GLEON-SA5C-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3180.1	14.9			
FM (30°-60°)	13765.2	64.7			
FH (60°-80°)	3239.8	15.2			G2/5000
FVH (80°-90°)	27.4	0.1			G1/100
BL (0°-30°)	516.4	2.4	B2/1000		
BM (30°-60°)	446.0	2.1	B1/1000		
BH (60°-80°)	97.8	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2
 Type II Short





REPORT NUMBER: P324929

CATALOG NUMBER: GLEON-SA5C-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5
2.5°	5979.1	5890.0	5892.7	5852.3	5704.4	5588.6	5468.3	5439.8	5252.4	5055.8	4866.5
5°	7012.6	6947.4	6931.8	6853.7	6647.9	6430.2	6196.8	6142.6	5776.0	5373.6	4977.7
7.5°	7543.7	7544.6	7531.7	7503.2	7374.6	7163.3	6878.5	6821.6	6322.7	5719.1	5093.4
10°	7389.3	7424.2	7495.9	7590.5	7688.8	7662.2	7448.1	7396.7	6854.6	6084.7	5222.0
12.5°	7029.2	7033.8	7113.7	7269.0	7551.9	7842.3	7845.9	7828.5	7362.7	6466.9	5363.5
15°	6850.0	6867.5	6896.9	6997.0	7265.3	7730.2	8062.8	8087.6	7828.5	6873.0	5514.2
17.5°	6967.6	6992.4	6967.6	6979.6	7134.8	7552.9	8100.4	8163.8	8235.5	7274.5	5656.6
20°	7286.4	7309.4	7265.3	7216.6	7246.9	7501.4	8073.8	8159.2	8554.3	7631.0	5776.0
22.5°	7716.4	7725.6	7658.5	7578.6	7556.5	7676.0	8095.8	8184.0	8809.7	7953.4	5851.4
25°	8189.5	8197.8	8114.2	8022.3	7970.0	8018.7	8276.8	8343.0	9034.8	8261.2	5894.6
27.5°	8704.9	8712.3	8607.6	8494.6	8433.9	8435.8	8575.4	8646.1	9274.6	8612.2	5929.5
30°	9249.8	9246.1	9149.6	8992.5	8915.3	8913.5	9005.4	9077.0	9621.8	9062.3	5977.2
32.5°	9861.6	9854.3	9717.4	9522.6	9435.3	9448.2	9530.0	9571.3	10052.7	9541.9	6062.7
35°	10667.3	10646.2	10439.5	10197.9	10037.1	10032.5	10101.4	10134.5	10602.1	10122.5	6205.1
37.5°	11712.9	11693.6	11413.4	11062.4	10836.4	10751.9	10833.6	10875.9	11385.8	10867.6	6433.9
40°	12743.7	12724.4	12558.1	12236.5	11888.3	11685.3	11749.6	11794.6	12364.2	11771.7	6722.3
42.5°	13454.8	13471.3	13529.2	13555.8	13229.7	12803.4	12832.8	12879.6	13392.3	12738.2	7052.2
45°	13642.2	13678.0	14005.1	14647.3	14769.5	14436.9	14129.1	14154.8	14436.9	13704.7	7382.0
47.5°	13079.0	13145.2	13776.3	14970.7	16005.2	16240.4	15657.9	15623.9	15439.2	14486.5	7616.3
50°	11799.2	11859.9	12677.5	14444.2	16380.0	17962.0	17489.8	17389.7	16318.4	14954.1	7698.9
52.5°	9947.1	10020.6	10684.8	12786.9	15673.5	18730.1	19224.4	19140.8	16963.4	14990.9	7712.7
55°	7024.6	7113.7	7816.5	9800.1	13434.6	18119.1	19839.0	19814.2	17499.0	14893.5	7742.1
57.5°	3947.8	4012.1	4770.0	6282.3	9839.6	15781.9	19196.8	19361.3	17822.4	14724.4	7786.2
60°	1752.9	1770.4	2162.7	3127.3	5760.4	12061.1	17358.4	17635.9	17544.9	14498.4	7860.6
62.5°	972.0	957.3	957.3	1300.0	2503.5	7466.5	14154.8	14613.3	16360.7	14231.1	7864.3
65°	761.6	747.8	708.3	713.9	953.6	3313.9	9801.9	10616.8	14111.7	13447.4	7599.7
67.5°	645.9	633.9	594.4	578.8	592.6	1093.3	5385.6	6231.7	10707.8	11410.6	6582.7
70°	545.7	537.5	517.2	498.0	463.0	540.2	2060.7	2635.8	6598.3	7590.5	4493.5
72.5°	439.2	435.5	442.8	426.3	384.0	360.1	704.7	853.5	2963.8	3387.3	1851.2
75°	378.5	376.7	380.4	363.8	316.0	250.8	358.3	391.4	836.0	828.7	374.8
77.5°	246.2	249.0	315.1	307.8	271.9	167.2	185.6	200.3	253.6	190.2	113.9
80°	157.1	155.3	159.9	255.4	244.4	127.7	92.8	97.4	122.2	93.7	55.1
82.5°	95.5	93.7	104.7	119.4	123.1	89.1	57.0	57.9	76.3	60.6	29.4
85°	8.3	11.0	63.4	58.8	42.3	27.6	27.6	29.4	40.4	35.8	16.5
87.5°	0.0	0.0	11.0	16.5	9.2	10.1	10.1	11.0	15.6	15.6	8.3
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: P324929

CATALOG NUMBER: GLEON-SA5C-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5	4764.5
2.5°	4768.2	4672.6	4479.7	4294.1	4137.0	3985.4	3812.7	3641.8	3561.9	3529.8	3496.7
5°	4776.5	4579.9	4182.0	3781.5	3366.2	2992.3	2673.5	2346.4	2182.9	2111.2	2078.2
7.5°	4787.5	4488.0	3844.9	3172.4	2503.5	1996.4	1553.6	1268.8	1145.7	1126.4	1078.6
10°	4789.3	4376.8	3453.5	2499.9	1678.5	1203.5	926.1	779.1	724.9	715.7	700.1
12.5°	4793.0	4245.4	3018.9	1851.2	1119.0	804.8	669.8	621.1	606.4	605.4	605.4
15°	4804.0	4107.6	2567.8	1334.0	803.9	637.6	588.0	568.7	563.2	565.9	565.0
17.5°	4804.0	3945.0	2125.0	994.1	649.5	573.3	545.7	532.9	531.0	533.8	534.7
20°	4769.1	3747.5	1718.9	773.6	576.0	531.9	507.1	495.2	490.6	492.4	493.4
22.5°	4685.5	3504.9	1388.2	640.4	527.3	494.3	467.6	449.3	441.9	442.8	442.8
25°	4555.1	3217.4	1085.9	554.0	487.8	453.9	422.6	401.5	396.9	396.0	397.8
27.5°	4387.8	2899.5	864.5	487.8	441.0	408.8	377.6	360.1	356.5	357.4	358.3
30°	4223.4	2569.7	681.7	431.8	388.6	358.3	334.4	326.1	326.1	328.9	329.8
32.5°	4072.7	2252.7	539.3	383.1	341.8	314.2	300.4	299.5	304.1	305.9	306.9
35°	3943.2	1959.6	446.5	345.4	305.0	281.1	276.5	280.2	285.7	289.4	290.3
37.5°	3851.3	1697.8	390.5	314.2	276.5	257.2	256.3	263.7	271.0	279.3	281.1
40°	3812.7	1476.4	351.9	286.6	253.6	238.9	236.1	246.2	260.0	271.9	273.8
42.5°	3780.6	1295.4	318.8	260.0	235.2	214.1	213.1	226.0	242.5	254.5	257.2
45°	3753.0	1150.2	288.5	231.5	211.3	183.7	186.5	203.0	215.9	228.8	231.5
47.5°	3696.0	1030.8	255.4	201.2	174.6	157.1	162.6	177.3	187.4	206.7	209.5
50°	3594.1	933.4	221.4	164.5	142.4	136.0	144.2	154.3	167.2	183.7	185.6
52.5°	3525.2	859.9	192.0	137.8	117.6	119.4	127.7	131.4	138.7	145.2	143.3
55°	3485.7	819.5	168.1	119.4	100.1	105.7	107.5	102.9	99.2	92.8	90.0
57.5°	3481.1	782.8	149.8	103.8	88.2	91.0	84.5	68.9	56.0	48.7	46.9
60°	3473.7	737.7	135.1	87.3	78.1	74.4	60.6	37.7	26.6	24.8	24.8
62.5°	3393.8	667.9	124.0	73.5	66.1	56.0	34.9	17.5	14.7	15.6	15.6
65°	3139.3	570.5	113.0	59.7	52.4	40.4	17.5	10.1	5.5	6.4	6.4
67.5°	2668.9	454.8	101.1	45.9	39.5	25.7	10.1	4.6	0.0	0.0	0.0
70°	1786.9	282.0	85.4	32.2	25.7	15.6	7.3	0.9	0.0	0.0	0.0
72.5°	685.4	152.5	68.9	19.3	16.5	11.0	4.6	0.0	0.0	0.0	0.0
75°	154.3	100.1	47.8	13.8	11.9	7.3	1.8	0.0	0.0	0.0	0.0
77.5°	58.8	72.6	27.6	9.2	8.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	28.5	43.2	12.9	5.5	4.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	16.5	5.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	8.3	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	0.9	0.9	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)