

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: P323629

Luminaire Tested: **GLEON-SA5A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14627 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

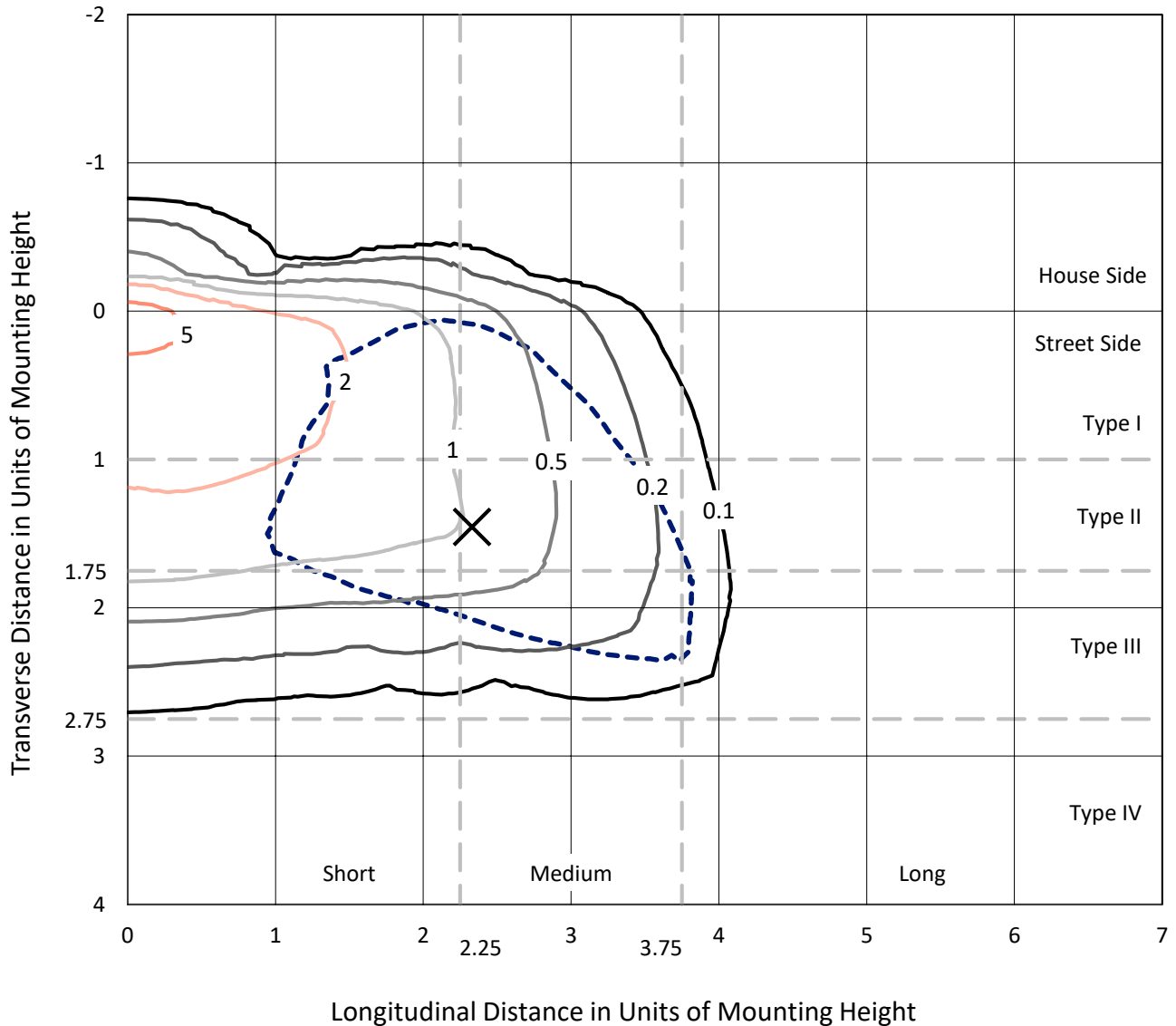




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Iso-Footcandle Lines of Horizontal Illumination

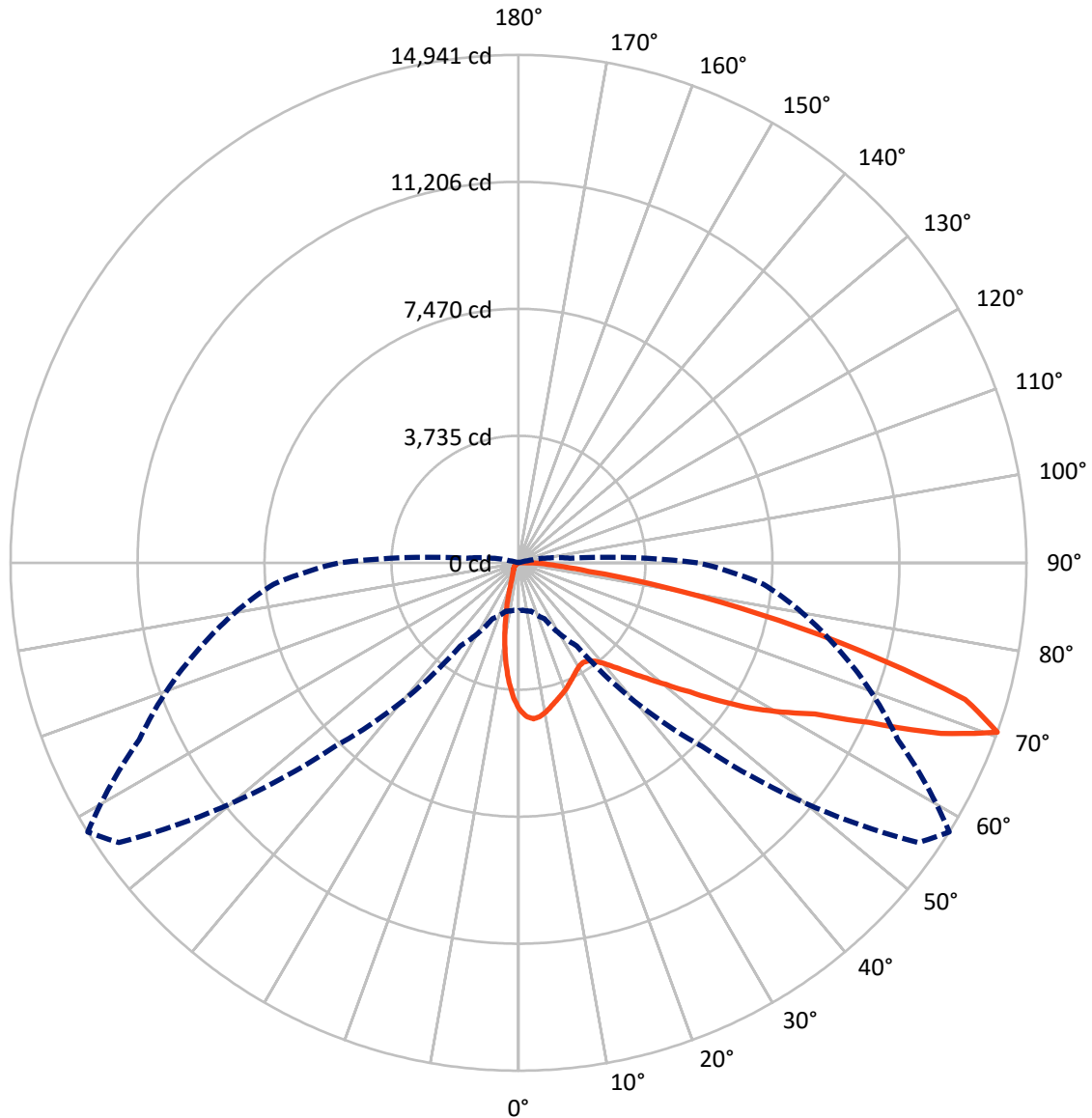
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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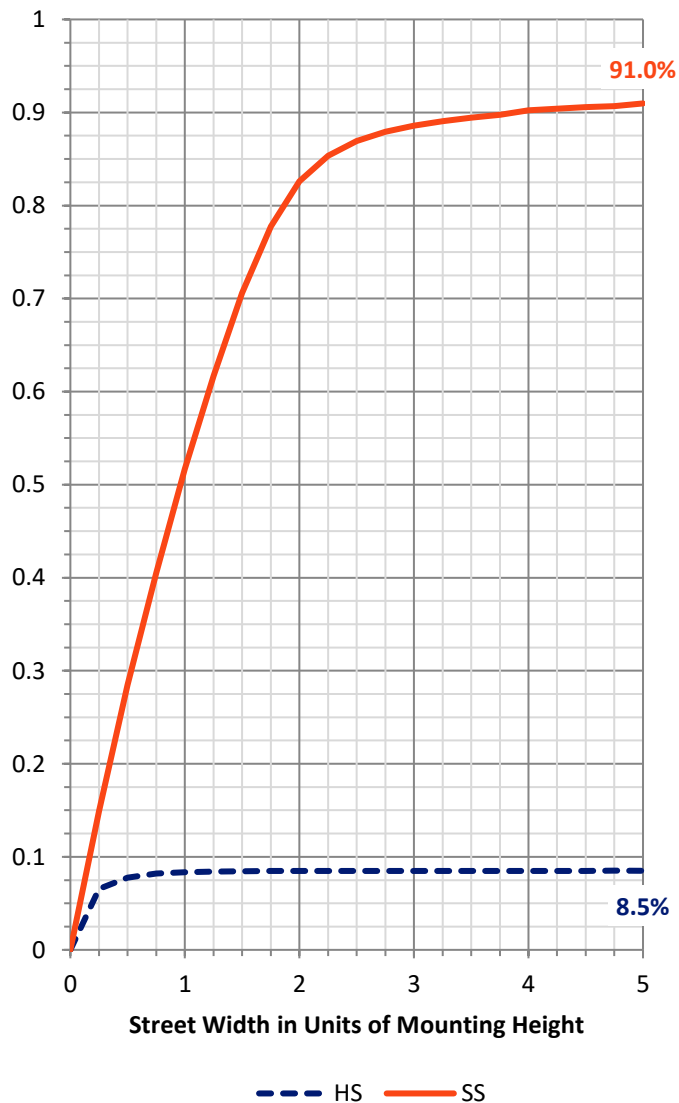
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.7	0.0	1251.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	13375.3	0.0	13375.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	14627.0	0.0	14627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	2.4
10°-20°	741.6	5.1
20°-30°	974.9	6.7
30°-40°	1291.1	8.8
40°-50°	1929.8	13.2
50°-60°	3091.5	21.1
60°-70°	3896.8	26.6
70°-80°	2101.9	14.4
80°-90°	246.0	1.7
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°	14627.0	100.0
0°-180°	14627.0	100.0

Coefficient of Utilization

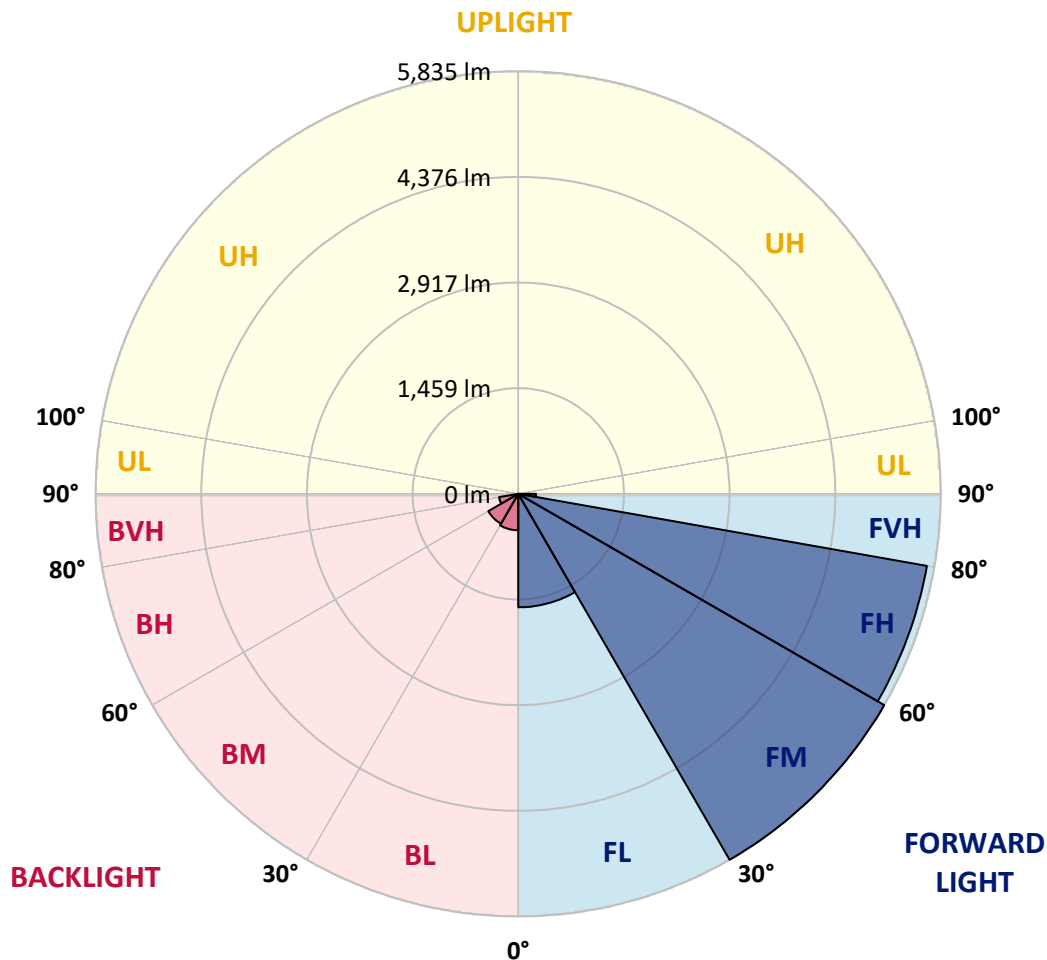


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.9	10.7			
FM (30°-60°)	5834.9	39.9			
FH (60°-80°)	5729.6	39.2			G3/7500
FVH (80°-90°)	243.9	1.7			G3/500
BL (0°-30°)	502.9	3.4	B2/1000		
BM (30°-60°)	477.5	3.3	B1/1000		
BH (60°-80°)	269.2	1.8	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7
2.5°	4679.0	4667.4	4663.2	4655.9	4627.9	4600.5	4546.4	4531.2	4497.1	4416.2	4330.5
5°	4682.6	4682.0	4694.8	4691.8	4682.0	4669.3	4630.3	4610.3	4552.5	4436.9	4280.0
7.5°	4457.0	4468.5	4497.1	4520.2	4547.0	4581.7	4586.5	4567.1	4519.6	4394.9	4186.9
10°	4154.1	4172.3	4212.5	4258.1	4328.0	4397.4	4459.4	4457.0	4440.6	4317.7	4075.0
12.5°	3850.6	3871.9	3918.1	3985.6	4084.8	4197.9	4308.6	4323.8	4351.2	4248.4	3971.6
15°	3584.8	3603.1	3648.7	3731.4	3854.2	4006.3	4168.7	4196.7	4267.2	4194.2	3885.3
17.5°	3359.2	3370.7	3404.2	3496.0	3638.3	3822.6	4033.7	4088.4	4193.6	4151.7	3810.5
20°	3201.6	3203.5	3225.4	3289.8	3432.1	3638.3	3893.8	3972.2	4115.8	4115.2	3733.2
22.5°	3123.8	3117.7	3122.0	3159.1	3263.7	3462.6	3753.9	3846.9	4045.8	4084.2	3654.8
25°	3109.2	3104.3	3092.2	3097.0	3160.3	3308.7	3612.8	3720.4	3984.4	4065.3	3586.6
27.5°	3154.8	3159.7	3139.0	3117.1	3122.0	3208.9	3487.5	3612.2	3934.5	4065.3	3538.6
30°	3246.6	3249.1	3233.9	3205.3	3167.0	3181.0	3400.5	3525.2	3909.6	4093.3	3508.2
32.5°	3348.2	3361.6	3359.8	3336.7	3281.9	3225.4	3379.8	3493.6	3907.8	4155.3	3505.1
35°	3474.1	3489.3	3514.9	3510.0	3452.8	3359.8	3450.4	3539.8	3943.7	4257.5	3538.0
37.5°	3607.9	3631.0	3685.8	3711.9	3674.8	3569.6	3608.5	3672.4	4039.8	4422.9	3621.3
40°	3737.5	3763.6	3863.4	3966.2	3938.2	3829.9	3848.2	3899.3	4210.7	4660.7	3779.4
42.5°	3864.6	3903.5	4050.1	4219.2	4252.6	4166.3	4176.0	4216.7	4464.3	4988.0	4037.9
45°	4016.6	4060.4	4277.6	4486.2	4575.6	4537.9	4579.2	4606.0	4795.8	5420.4	4386.4
47.5°	4239.9	4290.3	4556.7	4794.5	4951.5	4975.8	5059.1	5076.8	5214.8	5924.0	4840.8
50°	4675.3	4689.3	4930.2	5146.1	5372.3	5518.3	5613.2	5626.6	5722.1	6474.4	5408.2
52.5°	5223.3	5232.5	5368.7	5513.5	5770.7	6068.8	6290.7	6309.6	6329.7	7010.9	5968.4
55°	5767.7	5766.5	5856.5	5941.6	6236.0	6669.1	7150.8	7162.3	7018.2	7519.9	6396.6
57.5°	6107.7	6140.5	6277.4	6386.8	6798.0	7353.3	8021.7	8064.3	7741.3	7897.0	6819.9
60°	5999.4	6015.2	6318.7	6723.8	7498.1	8325.8	8903.0	8914.0	8285.1	8273.5	7355.1
62.5°	5111.4	5119.9	5596.8	6431.9	7852.6	9587.3	9966.2	9788.0	8910.3	8796.0	7995.6
65°	3503.3	3558.7	3957.0	4989.2	7201.2	10378.6	11612.0	11317.0	9863.4	9548.9	8574.6
67.5°	2063.1	2051.5	2248.6	3008.8	5289.0	9853.1	13693.9	13400.8	11163.1	10053.2	8404.9
70°	1409.2	1401.3	1476.7	1821.6	2985.7	7643.4	14349.0	14940.8	12310.8	9713.8	7233.5
72.5°	1006.0	1010.2	1121.5	1415.3	1874.5	4453.3	12339.4	13740.1	11951.4	8468.2	5498.2
75°	683.0	694.6	853.9	1161.1	1643.4	2265.6	8756.4	10444.8	9732.0	6154.5	3160.3
77.5°	367.4	380.1	568.1	935.4	1485.9	1574.1	5632.7	7188.5	6113.2	2766.8	916.0
80°	153.3	160.6	265.8	680.0	1283.9	1382.5	3314.2	4359.1	2605.0	545.6	204.4
82.5°	66.3	69.9	110.7	405.7	959.8	1167.2	1754.7	2097.1	789.5	119.8	102.8
85°	12.8	13.4	45.6	214.7	612.5	658.7	1137.4	1114.9	354.6	51.7	74.8
87.5°	0.0	0.0	10.9	67.5	180.0	358.8	694.0	685.5	120.4	24.9	28.0
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°	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7
2.5°	4286.7	4244.7	4156.5	4047.7	3964.3	3872.5	3799.5	3707.1	3666.9	3668.7	3646.8
5°	4190.6	4104.2	3909.0	3662.7	3472.9	3277.1	3108.6	2940.7	2841.6	2809.3	2778.9
7.5°	4053.1	3916.3	3604.9	3225.4	2904.2	2590.4	2317.3	2077.0	1925.0	1850.8	1823.4
10°	3898.0	3705.8	3255.2	2755.2	2296.6	1872.1	1518.1	1210.3	1087.5	1004.2	982.9
12.5°	3761.8	3501.5	2913.3	2272.9	1728.5	1216.4	878.9	687.3	604.0	571.1	565.6
15°	3633.5	3310.5	2584.3	1836.2	1197.0	748.7	558.9	493.9	474.4	468.9	468.9
17.5°	3512.4	3128.6	2262.6	1406.2	791.9	524.9	462.9	448.3	442.2	441.6	442.2
20°	3385.9	2946.8	1946.3	1030.3	552.9	444.6	427.6	419.7	417.8	417.8	417.8
22.5°	3264.9	2764.9	1638.5	735.9	443.4	405.7	397.2	391.7	389.9	389.3	388.0
25°	3148.7	2592.2	1338.1	520.0	389.3	371.6	364.3	357.0	351.5	348.5	346.7
27.5°	3053.2	2438.3	1058.3	417.2	351.5	336.3	327.2	316.3	302.9	296.8	294.4
30°	2977.2	2297.8	815.6	352.2	316.3	301.1	287.1	268.2	248.8	238.4	237.8
32.5°	2917.6	2159.8	619.2	311.4	284.6	265.8	245.7	222.0	199.5	187.9	187.3
35°	2888.4	2038.1	473.2	281.6	256.7	232.9	208.0	181.9	160.0	149.0	147.8
37.5°	2907.9	1935.3	369.2	256.7	232.9	205.6	176.4	149.0	129.5	119.8	119.2
40°	2979.0	1869.6	299.8	235.4	212.9	179.4	147.8	122.3	105.8	97.9	97.3
42.5°	3130.5	1845.3	256.1	217.7	193.4	155.1	122.9	101.0	85.8	80.3	79.1
45°	3383.5	1881.2	226.3	200.7	173.3	132.0	101.6	82.7	69.3	65.1	64.5
47.5°	3720.4	1975.5	205.0	184.3	155.1	111.3	84.5	66.9	56.6	52.3	51.7
50°	4154.7	2125.1	187.3	167.9	138.1	94.3	69.9	52.9	43.8	40.8	40.8
52.5°	4627.3	2303.3	171.5	152.7	121.0	78.5	56.6	40.8	34.7	31.0	31.0
55°	5017.8	2459.0	154.5	141.1	100.4	65.1	43.2	31.0	25.5	23.7	23.7
57.5°	5407.6	2625.0	135.0	121.0	80.3	52.9	32.8	23.1	18.9	17.6	17.6
60°	5913.0	2828.2	116.2	98.5	63.3	40.1	24.3	16.4	14.0	13.4	13.4
62.5°	6469.0	2947.4	99.1	79.1	49.3	29.8	17.6	10.9	10.3	10.3	9.7
65°	6808.9	2778.9	83.3	63.3	38.3	22.5	11.6	7.9	9.1	8.5	7.3
67.5°	6375.3	2175.6	68.1	49.3	29.8	17.0	7.3	5.5	9.7	7.9	6.1
70°	5278.7	1523.0	52.9	34.7	23.7	14.6	4.9	3.6	10.3	7.9	4.9
72.5°	3950.3	1019.4	42.0	23.1	17.6	12.8	4.3	1.8	9.1	6.7	4.3
75°	2158.5	410.5	33.5	14.6	10.9	9.1	3.0	1.2	6.1	4.9	3.0
77.5°	568.1	108.3	24.3	9.7	6.1	3.6	1.8	0.6	3.0	2.4	1.2
80°	144.8	42.0	15.8	6.7	4.3	1.8	0.0	0.0	0.6	0.0	0.0
82.5°	77.2	17.6	9.7	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.4	11.6	5.5	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.5	3.6	1.8	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)