

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: P458250

Luminaire Tested: **GALN-SA9C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33893 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

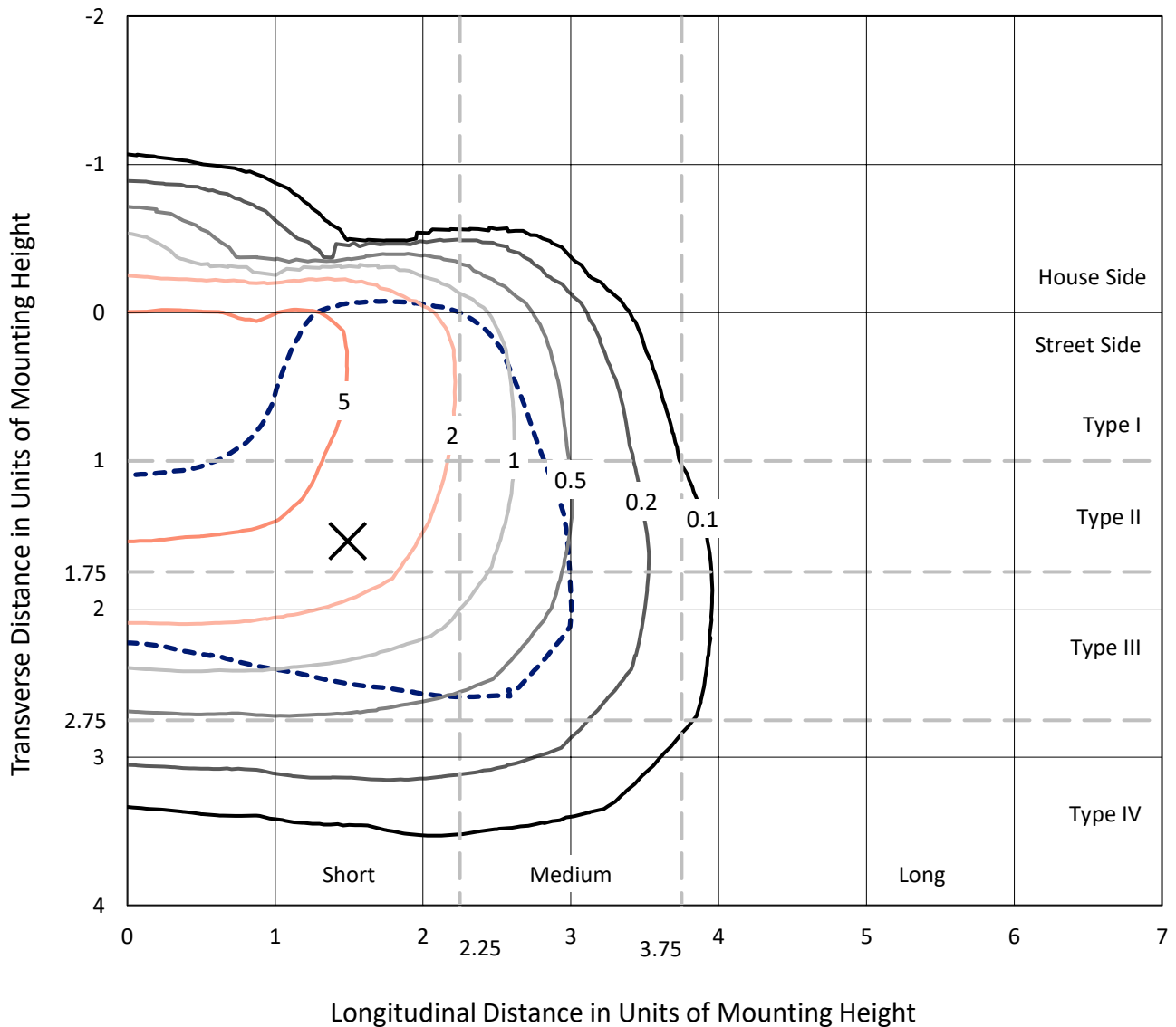
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

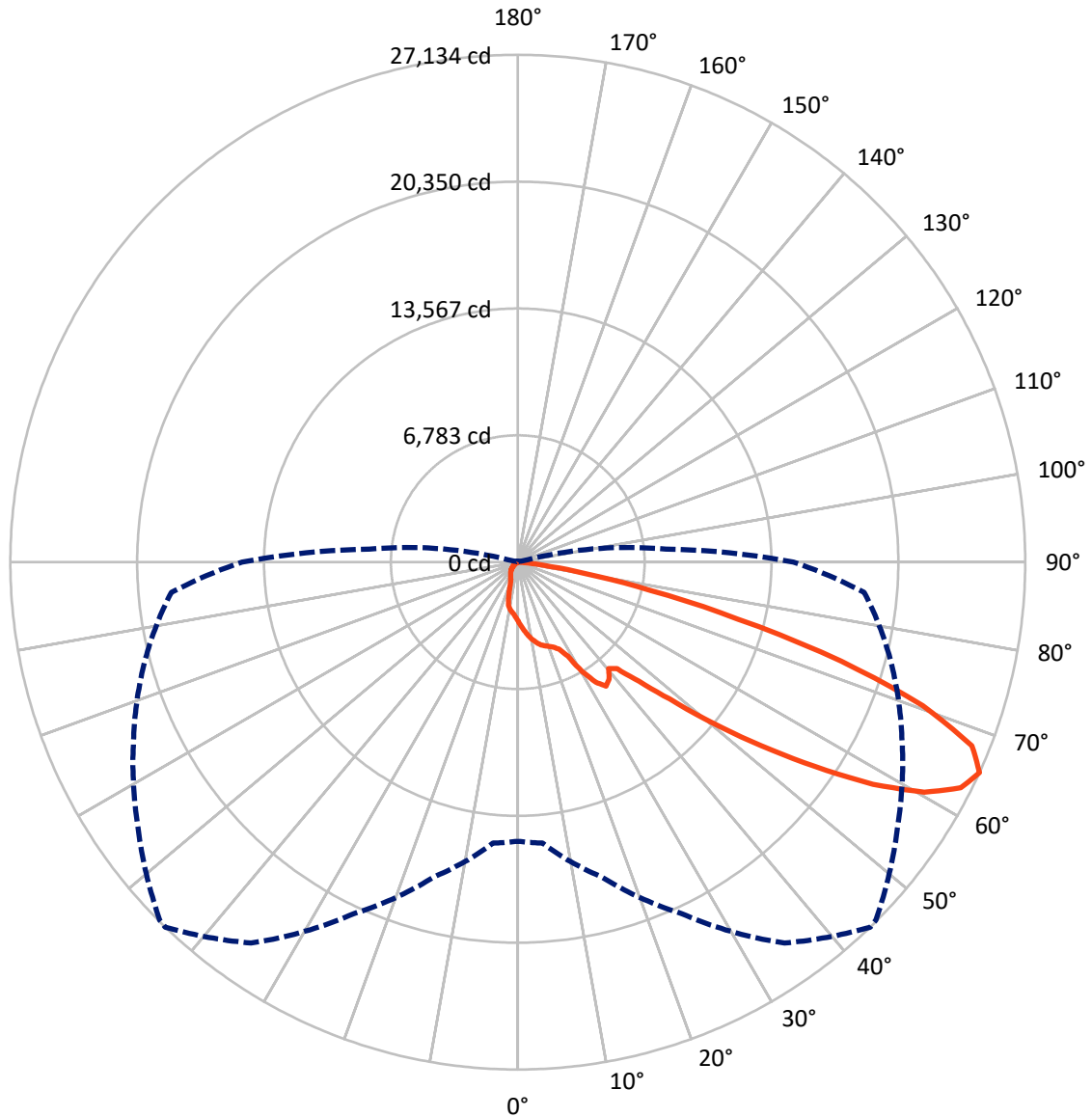
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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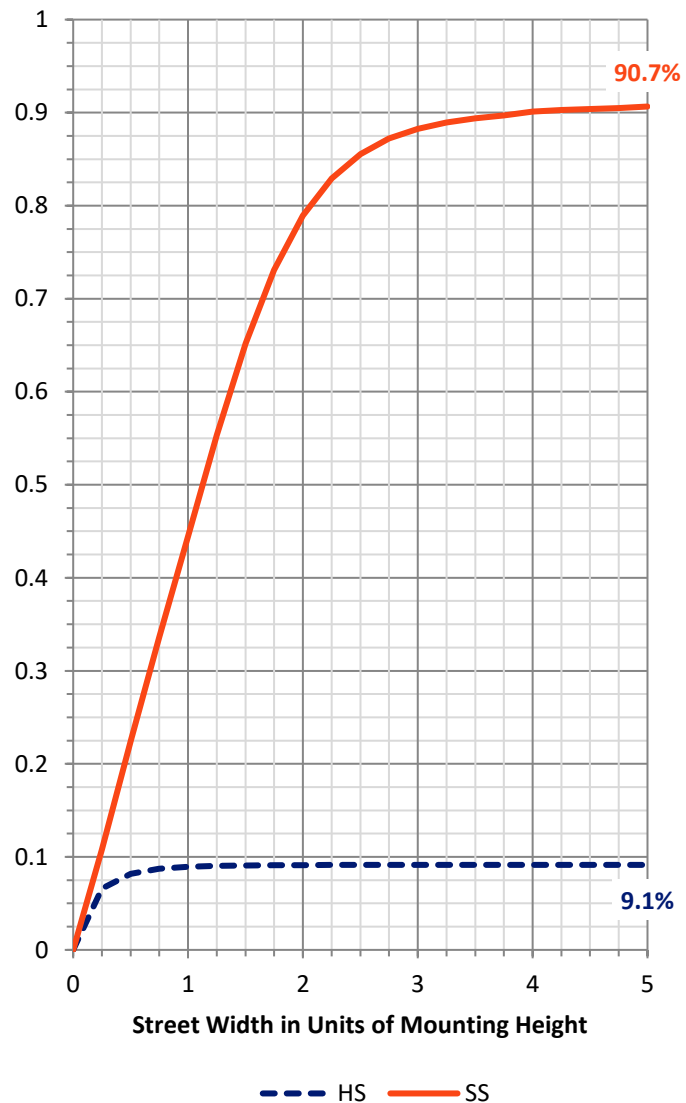
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3122.7	0.0	3122.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	30770.3	0.0	30770.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	33893.0	0.0	33893.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	0.9
10°-20°	944.3	2.8
20°-30°	1601.1	4.7
30°-40°	2662.1	7.9
40°-50°	4648.1	13.7
50°-60°	9080.8	26.8
60°-70°	10535.9	31.1
70°-80°	3836.6	11.3
80°-90°	270.3	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°	33893.0	100.0
0°-180°	33893.0	100.0

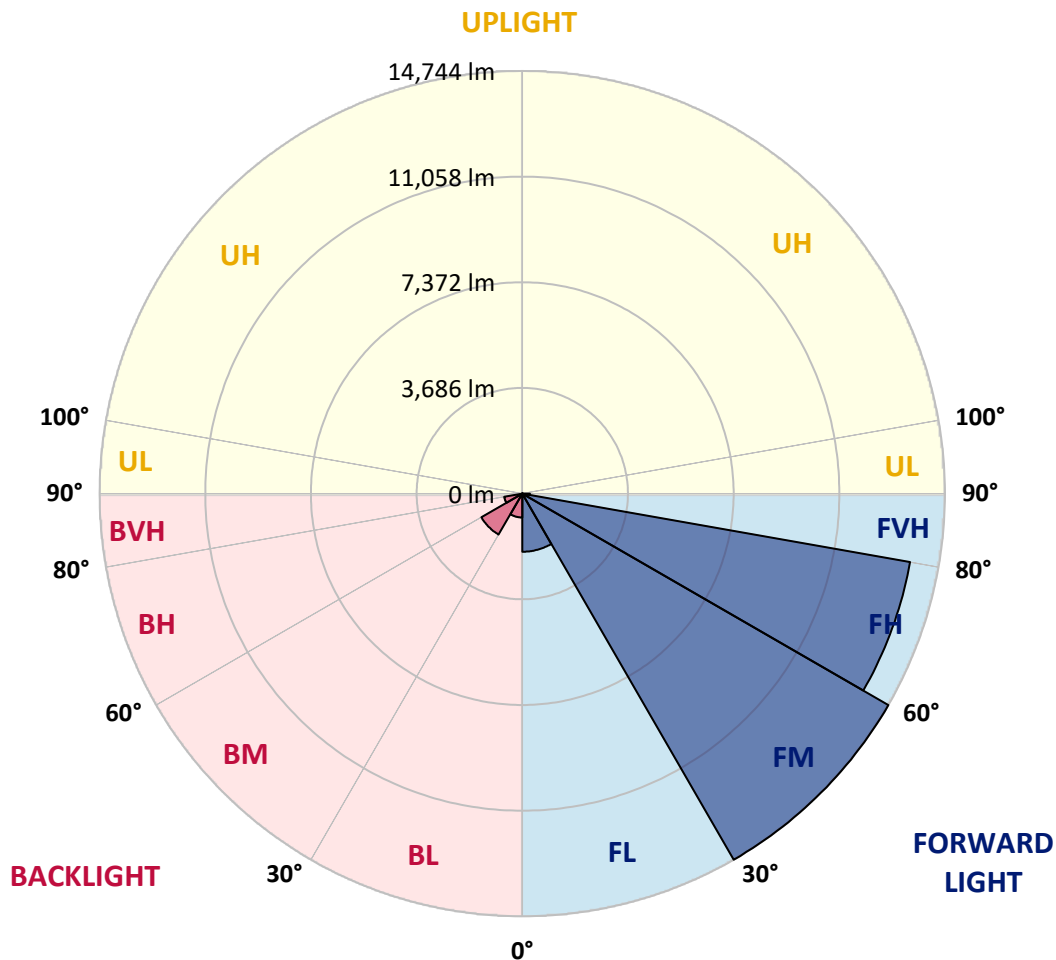


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.1	6.0			
FM (30°-60°)	14743.5	43.5			
FH (60°-80°)	13733.0	40.5			G5
FVH (80°-90°)	266.7	0.8			G3/500
BL (0°-30°)	832.0	2.5	B2/1000		
BM (30°-60°)	1647.6	4.9	B2/2500		
BH (60°-80°)	639.5	1.9	B2/1000		G2/1000
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: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	3550.7	3535.1	3527.4	3485.9	3454.8	3416.0	3416.0	3366.8	3309.8	3247.7	3190.7
5°	3946.9	3921.0	3887.4	3851.1	3778.6	3675.0	3675.0	3571.4	3452.3	3346.1	3229.5
7.5°	4327.6	4304.3	4247.3	4177.4	4058.3	3949.5	3941.7	3791.5	3649.1	3488.5	3322.8
10°	4661.7	4643.6	4594.4	4459.7	4335.4	4193.0	4190.4	4022.0	3856.3	3659.4	3454.8
12.5°	4894.8	4897.4	4832.6	4703.2	4542.6	4407.9	4397.6	4231.8	4058.3	3845.9	3594.7
15°	5060.6	5060.6	4993.2	4848.2	4703.2	4584.0	4573.7	4428.6	4249.9	4019.4	3747.5
17.5°	5107.2	5122.7	5050.2	4920.7	4804.2	4700.6	4698.0	4576.3	4433.8	4211.1	3902.9
20°	5089.0	5104.6	5047.6	4946.6	4866.3	4806.7	4799.0	4749.8	4617.7	4407.9	4068.6
22.5°	5050.2	5065.7	5024.3	4964.7	4925.9	4944.0	4931.1	4972.5	4902.6	4648.8	4265.5
25°	5058.0	5073.5	5042.4	5008.8	5042.4	5153.8	5187.5	5366.2	5304.0	4954.4	4477.8
27.5°	5301.4	5332.5	5288.5	5304.0	5423.1	5682.1	5746.9	6055.1	5780.5	5342.8	4809.3
30°	5842.7	5822.0	5739.1	5814.2	6228.6	6777.6	6759.5	6710.3	6280.4	5790.9	5203.0
32.5°	6334.8	6316.6	6311.4	6635.2	7386.2	7653.0	7640.0	7163.5	6728.4	6303.7	5591.5
35°	6534.2	6464.2	6448.7	7233.4	8489.5	8137.3	8057.0	7350.0	7272.3	6863.1	5987.7
37.5°	7135.0	7085.8	6845.0	7331.8	8049.2	7932.7	7870.5	7671.1	7852.4	7357.7	6435.8
40°	8373.0	8235.7	8018.2	7541.6	7425.1	7474.3	7536.4	8082.9	8538.7	8033.7	7034.0
42.5°	9911.3	9880.2	9476.2	8587.9	7715.1	7782.5	7862.8	8942.7	9525.4	9051.5	8010.4
45°	11757.9	11801.9	11219.2	10170.3	9025.6	9082.6	9199.1	10211.7	10861.8	10633.9	9546.2
47.5°	13436.1	13402.4	13205.6	12115.3	11058.6	10931.7	11120.8	11840.8	12710.9	12747.2	11452.3
50°	15124.7	15303.4	15010.7	14583.4	13798.7	13531.9	13462.0	13814.2	15140.2	14966.7	13741.7
52.5°	17551.4	17644.6	17095.5	16986.8	17165.5	16300.5	16230.5	16316.0	17502.2	16906.5	15456.2
55°	19076.8	19022.4	18817.8	19667.3	20374.3	19294.3	19206.3	18861.8	19462.7	18276.5	17105.9
57.5°	19558.5	19636.2	20112.7	21648.5	23321.5	22404.7	22244.2	21265.2	20876.7	19553.3	18623.6
60°	19343.5	19486.0	20514.1	22798.4	25118.9	24981.6	24844.4	23199.8	21891.9	20620.3	19688.0
62.5°	17812.9	18012.4	19656.9	22593.8	25727.5	26584.7	26413.8	24406.7	22567.9	21138.3	19874.4
65°	14927.8	15075.5	17437.4	20736.9	24862.5	27133.8	27071.6	24784.8	22674.1	20664.3	18597.7
67.5°	10641.7	11144.1	13332.5	17476.3	22303.7	26196.3	26302.4	24331.6	21677.0	18615.8	15401.8
70°	6689.6	7031.4	8600.9	12511.5	17880.3	22982.3	23331.9	22257.1	18812.6	14510.9	10310.2
72.5°	3190.7	3444.5	4563.3	7919.7	12620.3	18082.3	18359.4	18271.3	14547.1	9142.1	5319.5
75°	1421.8	1517.6	2178.1	4042.7	8147.6	12154.1	12871.5	12990.6	9090.3	4472.7	2069.3
77.5°	725.2	727.7	1020.4	1957.9	4068.6	7251.6	7394.0	7811.0	4928.5	1970.9	720.0
80°	385.9	411.8	541.3	924.6	2110.7	3571.4	3553.3	3905.5	2185.8	966.0	240.9
82.5°	173.5	191.6	305.6	484.3	1030.8	1354.5	1460.7	1597.9	937.5	616.4	106.2
85°	51.8	62.2	150.2	243.4	372.9	391.1	437.7	564.6	530.9	437.7	54.4
87.5°	7.8	7.8	62.2	67.3	54.4	69.9	72.5	80.3	170.9	160.6	28.5
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°	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4	3154.4
2.5°	3159.6	3141.5	3076.7	3022.3	2975.7	2947.2	2913.6	2892.9	2882.5	2874.7	2877.3
5°	3172.6	3128.5	3017.2	2929.1	2861.8	2789.3	2740.1	2711.6	2698.6	2677.9	2677.9
7.5°	3245.1	3175.1	3019.8	2885.1	2768.5	2670.1	2576.9	2543.2	2519.9	2514.7	2509.6
10°	3348.7	3260.6	3048.2	2861.8	2696.0	2561.4	2429.3	2312.7	2222.1	2167.7	2159.9
12.5°	3478.2	3351.3	3092.3	2846.2	2633.9	2395.6	2046.0	1810.3	1652.3	1603.1	1610.9
15°	3597.3	3460.0	3136.3	2833.3	2519.9	1986.4	1590.2	1320.8	1240.5	1232.8	1235.4
17.5°	3739.7	3576.6	3188.1	2815.2	2206.5	1517.6	1181.0	1108.5	1124.0	1149.9	1147.3
20°	3887.4	3700.9	3250.3	2706.4	1761.1	1142.1	1043.7	1051.5	1074.8	1098.1	1103.3
22.5°	4045.3	3843.3	3322.8	2444.8	1344.1	994.5	989.3	999.7	1023.0	1048.9	1054.1
25°	4262.9	4022.0	3377.2	2103.0	1017.8	919.4	929.8	947.9	968.6	997.1	1002.3
27.5°	4542.6	4262.9	3405.6	1657.5	880.5	852.1	854.6	880.5	906.4	932.3	932.3
30°	4905.2	4550.4	3348.7	1253.5	813.2	787.3	777.0	792.5	826.2	852.1	854.6
32.5°	5228.9	4822.3	3198.5	958.2	764.0	727.7	701.8	704.4	717.4	732.9	735.5
35°	5552.6	5086.4	2942.1	805.4	712.2	670.8	631.9	611.2	600.8	593.1	600.8
37.5°	5967.0	5415.4	2600.2	732.9	668.2	616.4	562.0	518.0	481.7	458.4	463.6
40°	6500.5	5871.2	2196.2	686.3	626.7	564.6	492.1	435.1	372.9	352.2	341.9
42.5°	7381.0	6562.7	1771.5	647.5	585.3	510.2	419.6	341.9	284.9	264.2	269.3
45°	8771.8	7435.4	1364.8	606.0	543.9	450.6	352.2	269.3	222.7	212.4	217.5
47.5°	10615.8	8564.6	1051.5	559.4	492.1	385.9	277.1	212.4	183.9	181.3	178.7
50°	12351.0	9616.1	878.0	507.6	429.9	321.1	227.9	178.7	160.6	158.0	158.0
52.5°	13920.4	10369.7	714.8	448.0	362.6	264.2	191.6	158.0	142.4	134.7	134.7
55°	15316.3	10861.8	580.1	375.5	284.9	209.8	165.7	142.4	124.3	114.0	111.4
57.5°	16370.4	10921.4	435.1	300.4	212.4	163.2	142.4	124.3	103.6	90.6	85.5
60°	16821.0	10406.0	321.1	227.9	158.0	129.5	114.0	101.0	77.7	64.7	62.2
62.5°	16367.8	9403.7	238.3	173.5	121.7	95.8	80.3	75.1	54.4	38.8	36.3
65°	14744.0	7956.0	189.1	132.1	90.6	69.9	51.8	49.2	33.7	18.1	15.5
67.5°	11812.3	6231.2	150.2	98.4	64.7	46.6	33.7	31.1	18.1	5.2	5.2
70°	7681.5	3983.2	121.7	72.5	41.4	31.1	20.7	15.5	10.4	2.6	0.0
72.5°	3799.3	1862.1	98.4	57.0	28.5	15.5	7.8	5.2	7.8	0.0	0.0
75°	1473.6	663.0	72.5	38.8	15.5	7.8	5.2	0.0	2.6	0.0	0.0
77.5°	489.5	220.1	44.0	20.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	181.3	85.5	23.3	12.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	72.5	33.7	15.5	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	20.7	10.4	7.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	15.5	10.4	7.8	5.2	2.6	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)