

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: P648427

Luminaire Tested: **GALN-SA5B-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22271.6 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

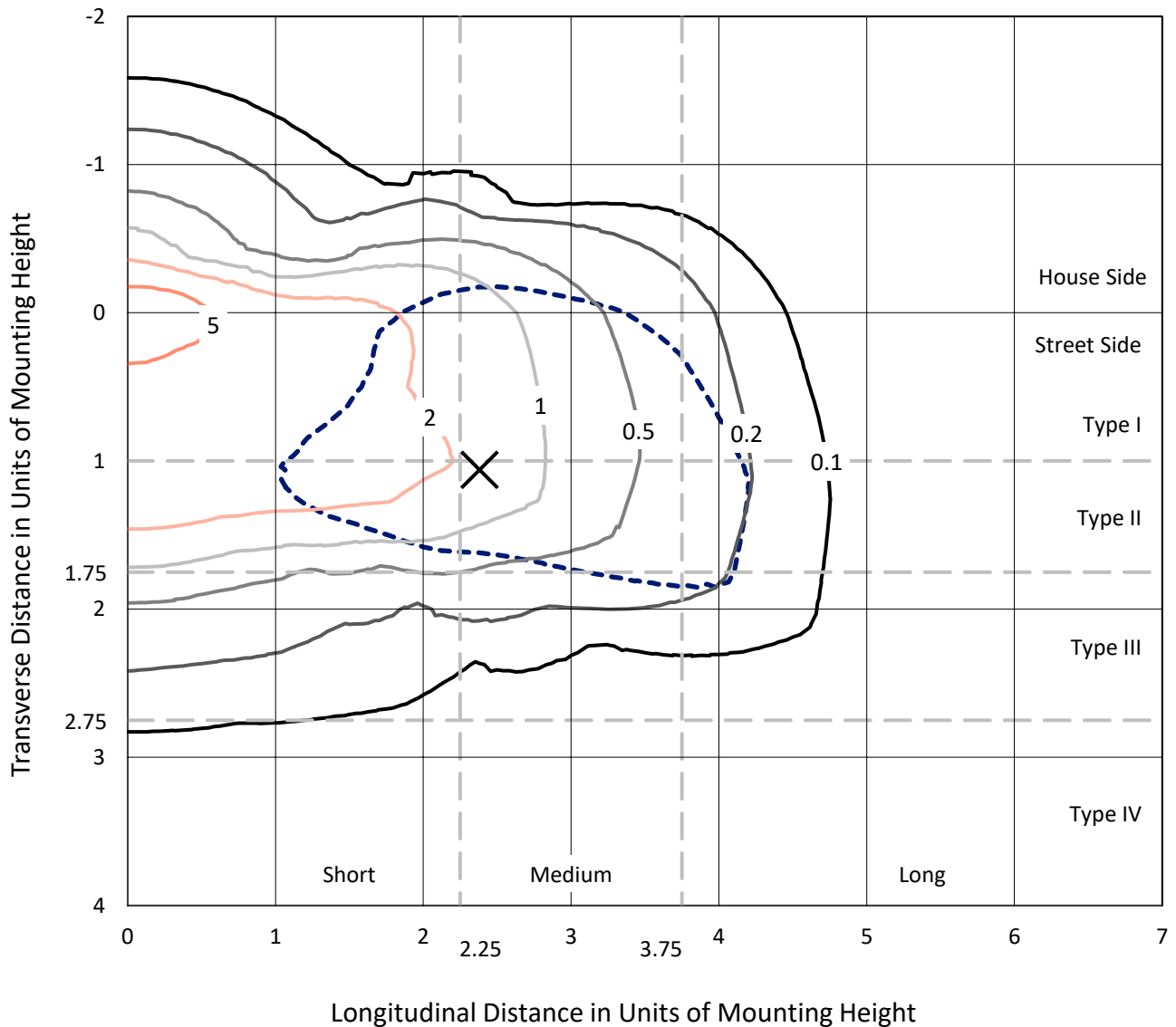
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648427
 CATALOG NUMBER: GALN-SA5B-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

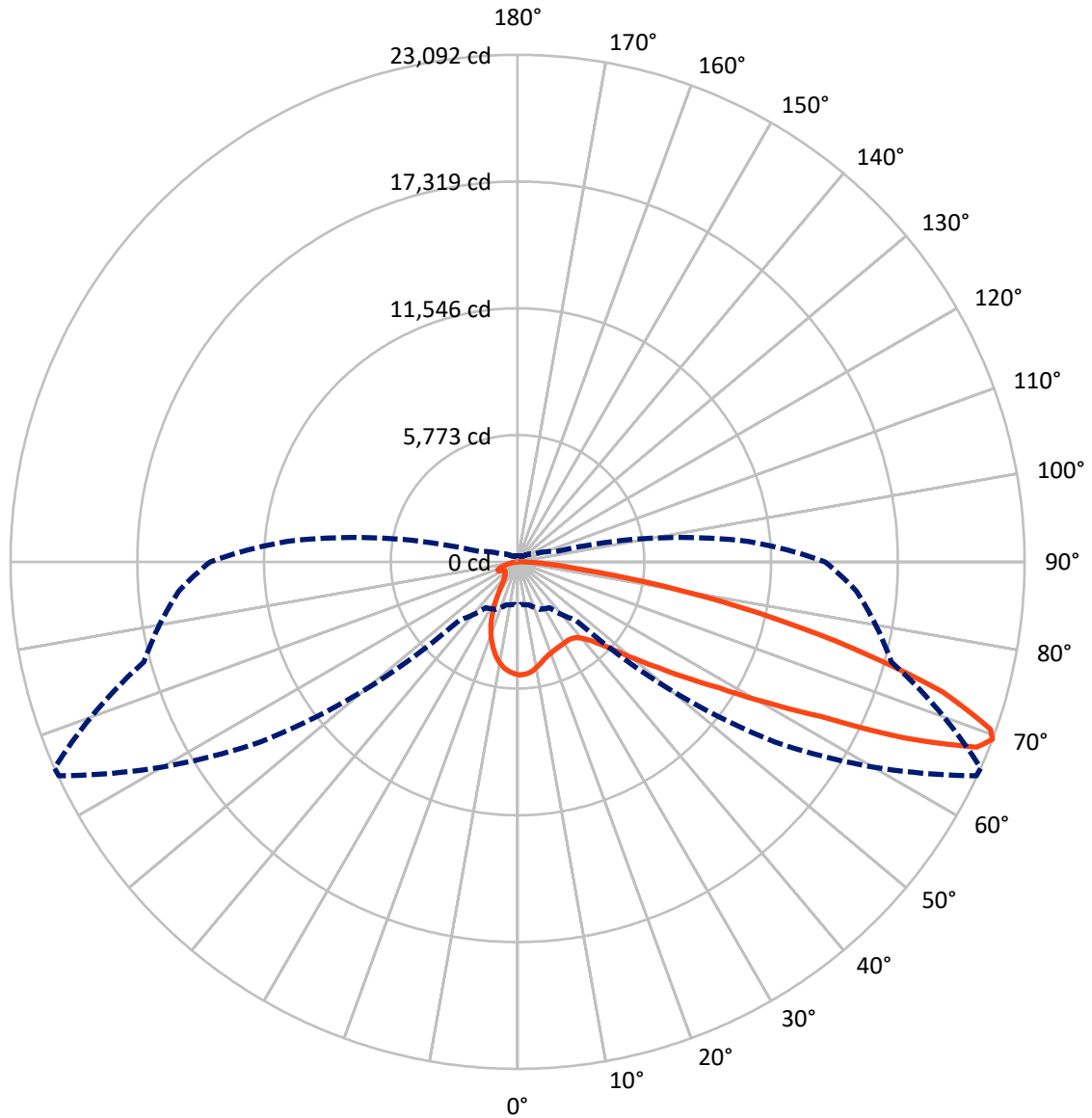
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P648427
CATALOG NUMBER: GALN-SA5B-835-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P648427
 CATALOG NUMBER: GALN-SA5B-835-U-SL2

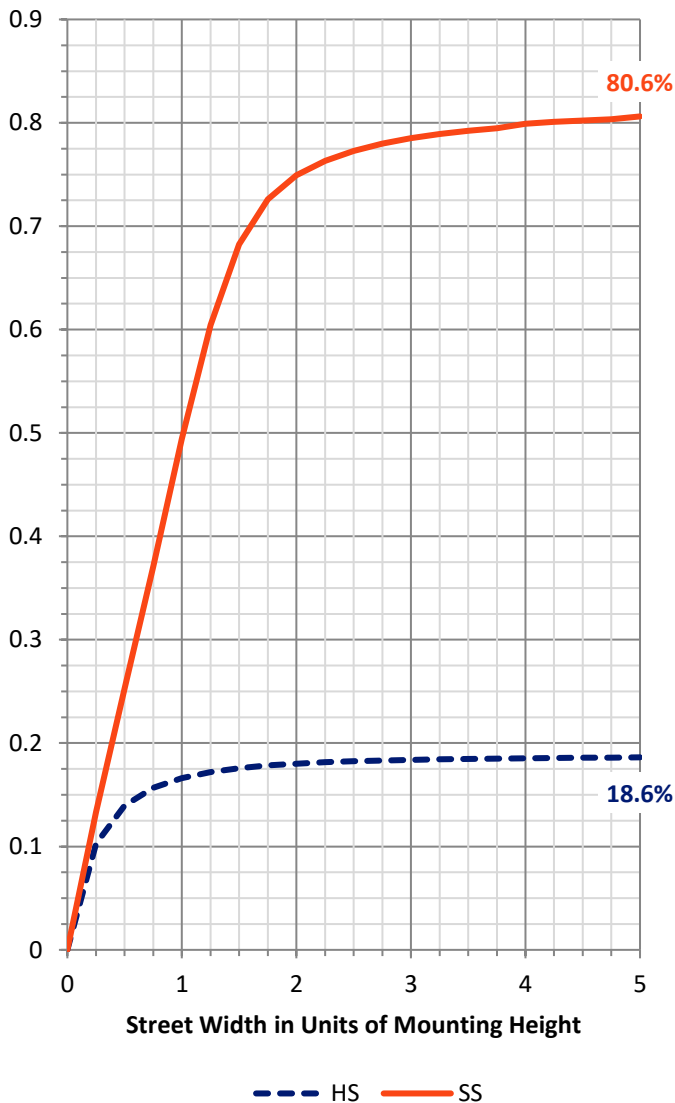
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4188.4	0.0	4188.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18083.2	0.0	18083.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	22271.6	0.0	22271.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.6	2.0
10°-20°	1059.4	4.8
20°-30°	1442.2	6.5
30°-40°	1938.0	8.7
40°-50°	2893.7	13.0
50°-60°	4602.9	20.7
60°-70°	5661.4	25.4
70°-80°	3683.5	16.5
80°-90°	543.9	2.4
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°	22271.6	100.0
0°-180°	22271.6	100.0

Coefficient of Utilization

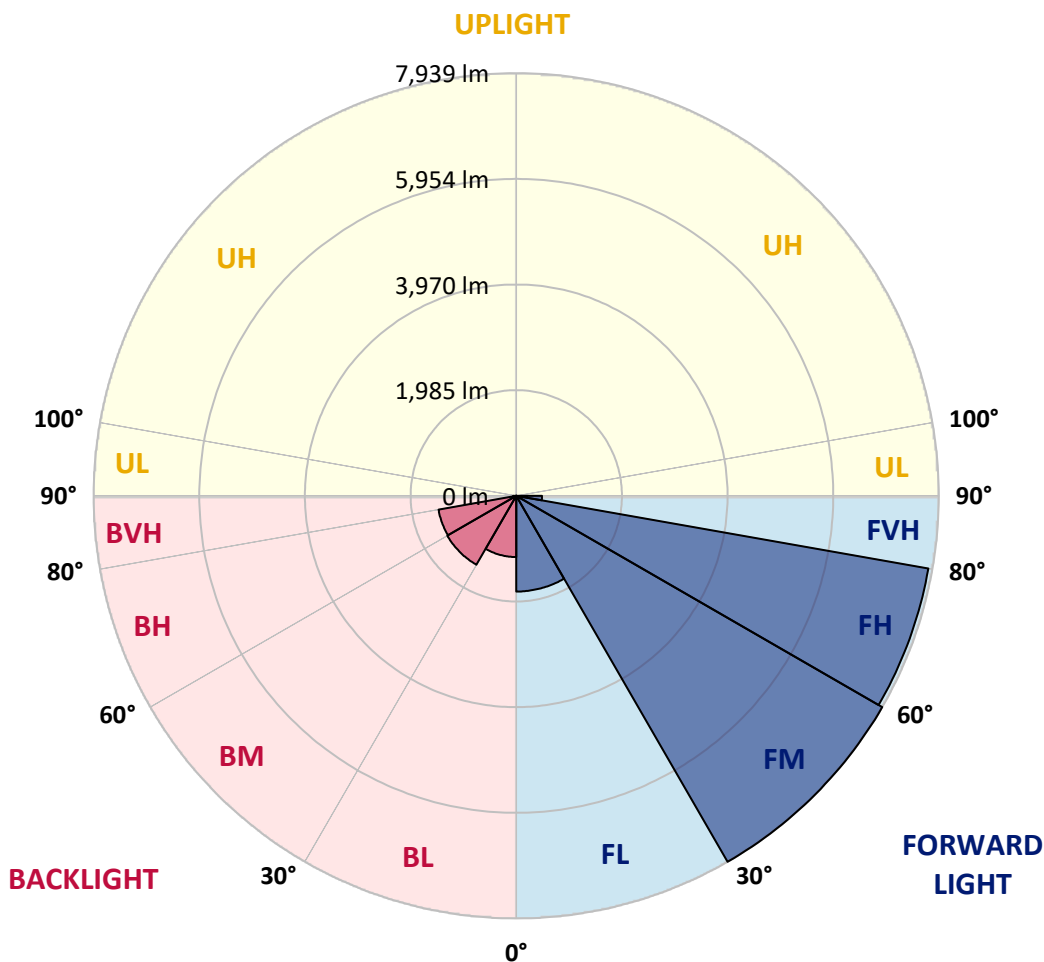


REPORT NUMBER: P648427
 CATALOG NUMBER: GALN-SA5B-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.4	8.1			
FM (30°-60°)	7939.2	35.6			
FH (60°-80°)	7862.0	35.3			G4/12000
FVH (80°-90°)	483.6	2.2			G3/500
BL (0°-30°)	1149.7	5.2	B3/2500		
BM (30°-60°)	1495.5	6.7	B2/2500		
BH (60°-80°)	1482.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	60.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





REPORT NUMBER: P648427
 CATALOG NUMBER: GALN-SA5B-835-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1
2.5°	4963.0	4982.8	5005.0	5029.7	5076.6	5102.4	5121.0	5141.9	5144.4	5155.5	5146.8
5°	4596.8	4620.2	4653.5	4700.3	4770.7	4880.4	4993.9	5086.4	5097.5	5149.3	5164.1
7.5°	4290.9	4304.5	4331.6	4406.8	4506.7	4628.9	4794.1	4981.6	5008.7	5132.0	5175.2
10°	4041.8	4055.3	4087.4	4165.1	4263.7	4416.7	4598.0	4844.7	4866.9	5079.0	5177.7
12.5°	3855.5	3867.9	3902.4	3978.8	4092.3	4235.4	4435.2	4696.7	4728.7	5008.7	5154.3
15°	3713.7	3737.1	3765.4	3828.4	3948.0	4086.2	4279.8	4561.0	4586.9	4934.7	5138.2
17.5°	3653.2	3664.4	3684.1	3742.0	3829.6	3965.3	4160.2	4455.0	4485.7	4882.9	5134.5
20°	3655.7	3666.8	3670.5	3702.6	3765.4	3882.7	4075.0	4371.0	4408.1	4837.3	5140.7
22.5°	3739.6	3740.8	3727.2	3716.1	3740.8	3838.3	4014.6	4308.1	4351.3	4817.6	5145.6
25°	3869.0	3891.3	3871.5	3819.7	3774.1	3821.0	3991.2	4273.6	4314.3	4789.1	5139.5
27.5°	4078.7	4082.5	4066.4	3996.1	3877.7	3843.2	3981.3	4247.7	4282.2	4768.2	5108.6
30°	4360.0	4348.9	4334.1	4256.4	4070.1	3928.3	4002.3	4224.3	4260.1	4737.4	5071.6
32.5°	4644.8	4679.4	4665.8	4574.6	4332.8	4093.5	4070.1	4221.8	4251.5	4713.9	5030.9
35°	4947.1	4963.0	5027.2	4980.3	4732.5	4361.2	4197.1	4260.1	4283.5	4715.1	5002.5
37.5°	5183.9	5227.0	5377.5	5418.2	5185.1	4715.1	4403.1	4368.6	4378.5	4775.6	5013.6
40°	5470.0	5544.0	5737.6	5904.1	5751.2	5175.2	4753.4	4569.7	4582.0	4921.2	5086.4
42.5°	5832.6	5884.4	6144.7	6370.3	6345.7	5783.2	5177.7	4898.9	4905.1	5210.9	5289.9
45°	6256.9	6330.9	6623.2	6962.4	7020.3	6471.5	5790.7	5397.2	5393.5	5661.2	5669.8
47.5°	6799.6	6845.2	7135.0	7505.1	7739.4	7336.1	6534.4	6112.6	6073.1	6317.3	6247.0
50°	7299.0	7370.6	7590.2	7994.7	8578.1	8348.7	7512.4	7040.0	6947.6	7175.7	7057.3
52.5°	7508.7	7584.0	7769.0	8271.0	9297.1	9658.5	8754.4	8146.4	7992.2	8167.4	8124.2
55°	7144.9	7242.4	7415.0	8025.5	9612.9	11169.4	10429.3	9425.4	9313.2	9237.9	9250.3
57.5°	6166.8	6259.3	6492.5	7165.9	9235.5	12265.9	12820.8	11069.5	10829.0	10482.4	10541.6
60°	4694.2	4752.2	4873.0	5619.2	8116.8	12550.8	15536.8	13147.7	12994.7	11721.9	11763.9
62.5°	3333.8	3399.2	3483.0	3855.5	5942.3	11747.8	17663.1	16049.8	15503.4	13005.9	12965.1
65°	2707.2	2662.8	2764.0	2937.9	3486.7	9104.7	18141.6	20078.0	19325.6	14696.8	14131.9
67.5°	2226.2	2179.3	2279.2	2588.8	2651.7	5285.0	16417.4	22692.7	22542.3	16535.8	15317.2
69°	1970.9	1946.2	2033.8	2386.6	2545.7	3753.2	14302.1	23056.6	23092.3	17619.9	15499.7
70°	1776.1	1785.9	1871.1	2284.2	2497.5	3094.5	12223.9	22554.6	22858.0	18161.4	15302.4
72.5°	1307.4	1328.4	1446.7	1892.0	2452.0	2625.9	7274.4	19700.6	20237.1	18193.4	13998.7
75°	913.9	904.1	1008.9	1424.5	2316.3	2602.4	4272.4	15235.8	15843.8	15725.5	11762.6
77.5°	598.2	614.2	698.1	1006.4	1948.7	2582.6	2785.0	10809.2	11203.9	10516.9	6957.4
80°	421.8	420.5	467.5	687.0	1445.5	2481.6	2280.5	6813.1	6713.2	4133.0	2063.4
82.5°	241.7	259.0	313.3	483.5	966.9	2184.3	2098.0	3258.5	2974.9	1177.9	696.9
85°	134.4	140.6	186.3	292.3	564.9	1645.3	1831.5	1482.5	1398.7	492.1	299.7
87.5°	43.1	46.9	77.7	148.0	256.5	777.0	1037.2	684.5	631.5	177.6	120.9
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: P648427
 CATALOG NUMBER: GALN-SA5B-835-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1	5143.1
2.5°	5150.6	5165.4	5125.9	5087.6	5053.1	5005.0	4961.9	4926.1	4901.4	4897.7	4885.4
5°	5167.8	5169.1	5093.8	4992.6	4894.0	4785.5	4673.3	4593.1	4517.8	4475.9	4455.0
7.5°	5180.2	5169.1	5033.4	4869.3	4679.4	4482.0	4284.7	4126.9	4004.7	3956.7	3975.1
10°	5175.2	5140.7	4942.1	4679.4	4403.1	4108.3	3824.6	3602.7	3399.2	3294.3	3296.8
12.5°	5148.1	5091.4	4806.4	4466.0	4060.2	3665.5	3231.4	2931.7	2696.1	2556.8	2513.6
15°	5124.7	5026.0	4647.3	4176.2	3671.7	3108.1	2579.0	2209.0	2011.6	1901.8	1900.7
17.5°	5100.0	4963.0	4473.4	3869.0	3225.3	2500.0	1945.1	1662.5	1570.1	1581.2	1562.7
20°	5074.1	4889.1	4292.1	3527.4	2681.3	1864.9	1456.6	1341.9	1367.8	1418.4	1425.8
22.5°	5044.5	4810.1	4097.3	3151.3	2109.1	1403.6	1181.5	1164.3	1230.9	1309.8	1320.9
25°	4998.8	4711.5	3851.8	2757.8	1626.8	1131.0	1034.8	1047.1	1112.5	1179.1	1186.5
27.5°	4934.7	4589.4	3603.9	2266.9	1222.3	970.7	946.0	962.0	994.1	1034.8	1044.7
30°	4848.3	4451.2	3319.0	1842.6	979.3	890.5	880.6	889.3	907.7	925.0	930.0
32.5°	4762.0	4318.0	3031.6	1411.0	873.2	837.4	827.6	827.6	827.6	830.1	831.3
35°	4681.9	4192.2	2723.3	1098.9	817.7	795.5	782.0	767.2	764.7	756.1	756.1
37.5°	4637.5	4077.6	2395.2	920.1	777.0	761.0	742.5	717.9	704.2	705.5	703.1
40°	4646.1	4002.3	2096.7	818.9	743.7	726.5	698.1	669.7	661.1	661.1	658.6
42.5°	4743.6	3977.6	1810.6	765.9	711.7	691.9	656.2	630.2	625.3	624.1	626.6
45°	4968.0	4038.0	1554.0	731.4	684.5	654.9	619.1	595.7	590.8	590.8	589.5
47.5°	5405.8	4234.2	1370.2	709.2	664.8	626.6	589.5	566.1	557.5	555.0	555.0
50°	6086.7	4659.6	1233.4	689.4	640.1	600.6	562.4	535.3	521.7	520.5	519.3
52.5°	7032.7	5323.2	1180.3	674.6	613.0	573.5	531.6	505.7	488.4	484.7	482.2
55°	8139.0	6249.4	1253.1	663.5	584.6	542.7	499.5	472.4	456.3	449.0	447.7
57.5°	9420.4	7362.0	1529.4	648.7	558.7	509.4	467.5	440.3	423.1	414.4	411.9
60°	10571.2	8505.3	2011.6	640.1	536.5	473.6	430.4	405.8	389.8	381.1	379.9
62.5°	11835.4	9595.6	2587.6	663.5	526.6	439.1	395.9	373.7	360.2	351.5	351.5
65°	13186.0	10687.2	2968.7	742.5	541.4	411.9	358.9	340.4	328.1	321.9	320.6
67.5°	14096.2	11064.6	2445.8	823.9	578.5	382.3	323.1	308.3	300.9	294.8	294.8
69°	13997.5	10587.3	1804.4	844.9	589.5	367.5	303.4	292.3	282.4	280.0	277.5
70°	13685.4	10043.3	1512.1	831.3	580.9	354.0	291.0	277.5	268.9	266.4	265.2
72.5°	12189.4	8710.0	1126.0	722.8	494.5	307.1	257.8	245.5	238.0	234.4	234.4
75°	10127.2	7119.0	879.4	574.7	387.3	259.0	220.8	210.9	204.8	202.2	201.1
77.5°	5676.0	3975.1	631.5	450.1	293.5	209.7	185.0	176.4	170.2	167.7	167.7
80°	1581.2	1135.9	371.2	297.2	199.8	159.1	146.7	140.6	131.9	125.8	129.5
82.5°	595.7	492.1	212.1	178.8	127.0	106.1	102.3	97.4	93.7	85.1	85.1
85°	289.9	239.3	135.7	95.0	70.3	55.5	53.0	50.6	48.1	42.0	43.1
87.5°	99.9	106.1	59.2	34.5	21.0	13.5	11.1	6.2	6.2	6.2	6.2
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)