

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: P648377

Luminaire Tested: **GALN-SA4B-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14498 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

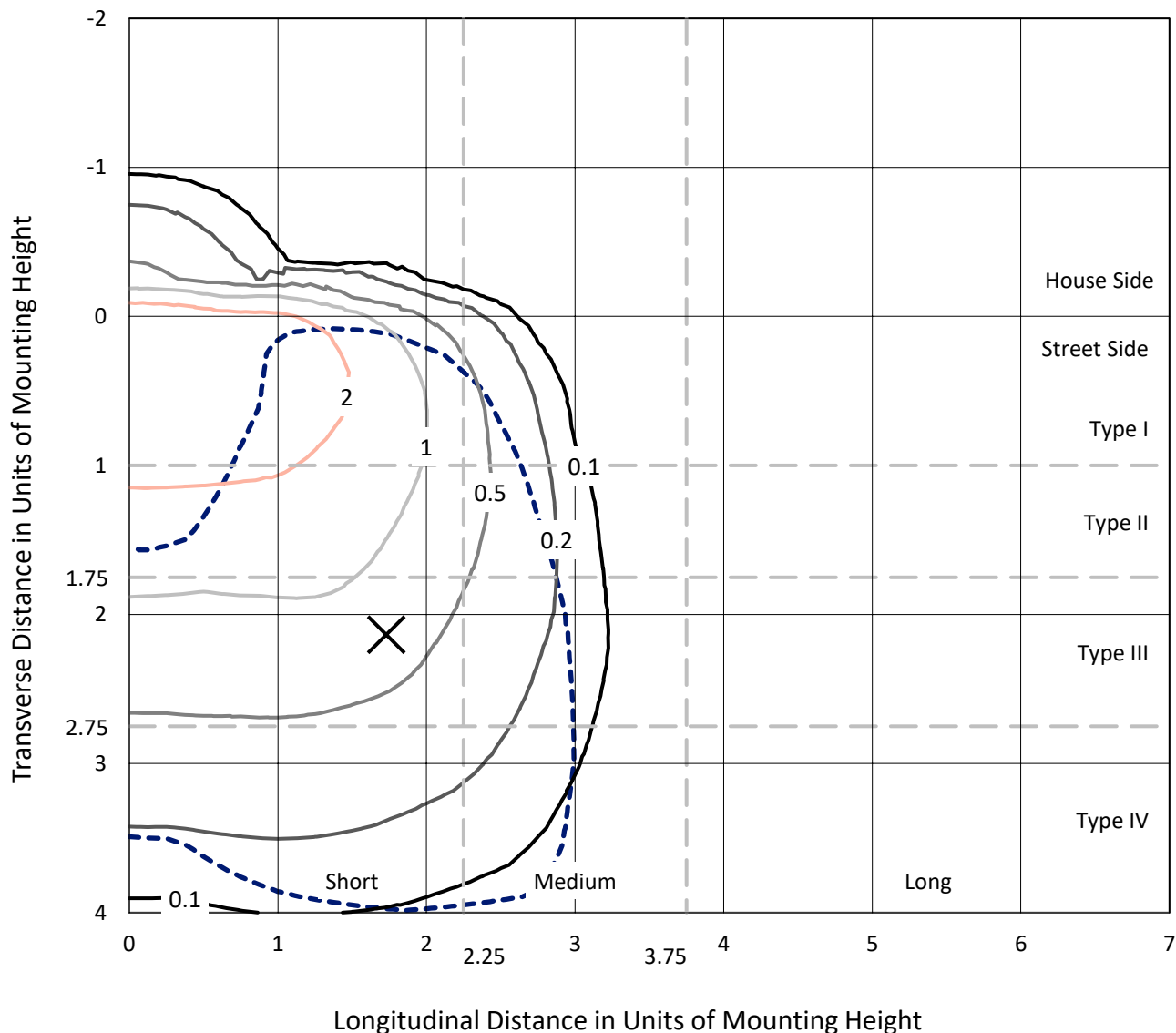
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648377
 CATALOG NUMBER: GALN-SA4B-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

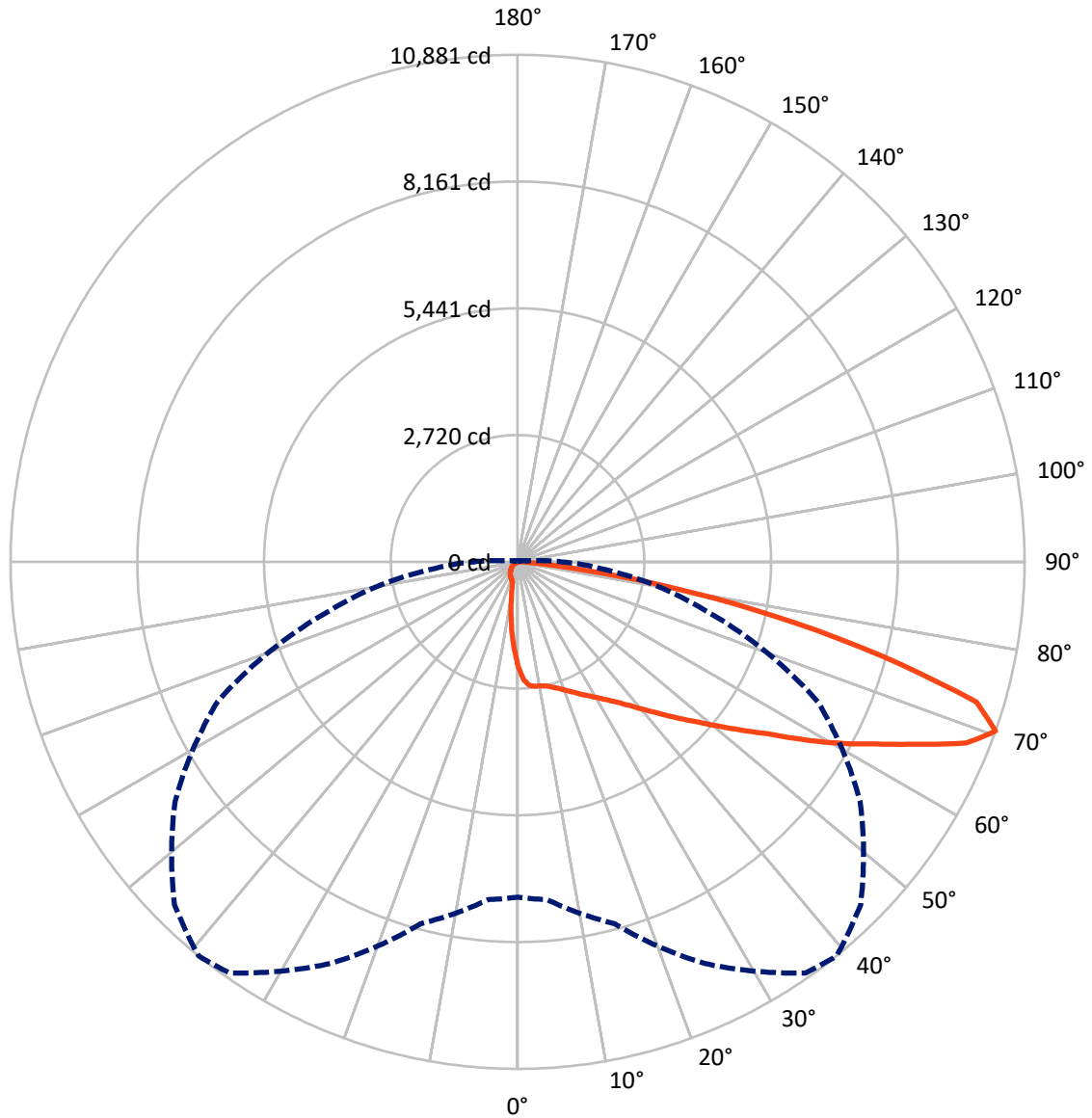
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P648377
CATALOG NUMBER: GALN-SA4B-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P648377
 CATALOG NUMBER: GALN-SA4B-835-U-SL4-HSS

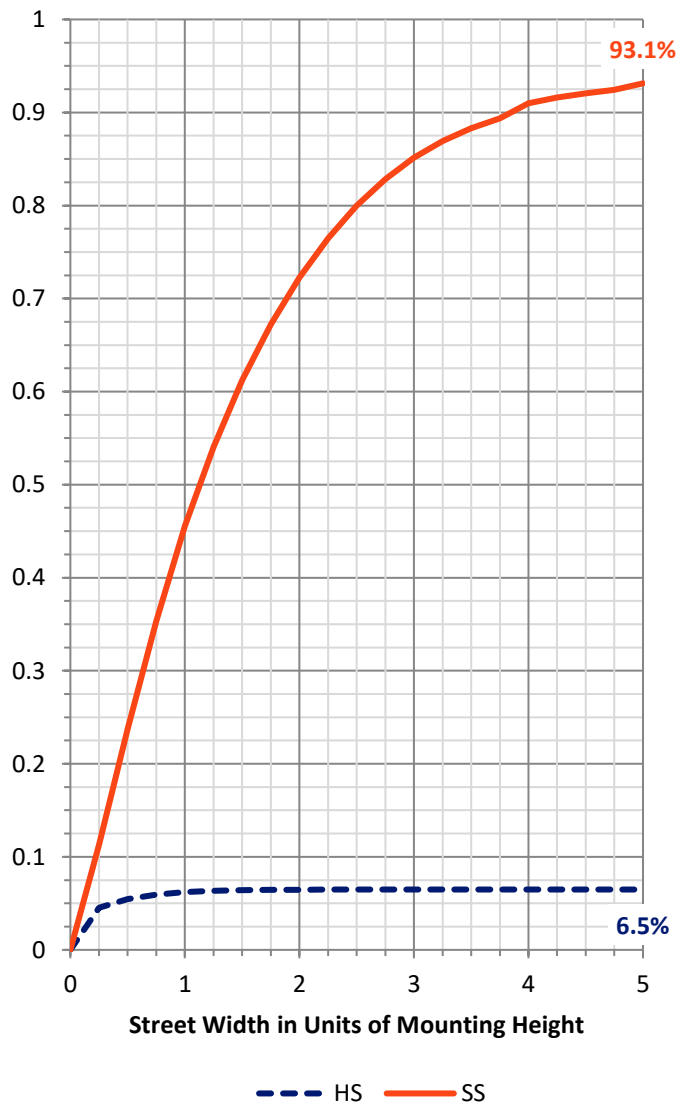
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	945.3	0.0	945.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	13552.7	0.0	13552.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	14498.0	0.0	14498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	1.3
10°-20°	501.4	3.5
20°-30°	840.0	5.8
30°-40°	1302.8	9.0
40°-50°	2064.5	14.2
50°-60°	3026.2	20.9
60°-70°	3878.9	26.8
70°-80°	2437.4	16.8
80°-90°	253.9	1.8
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°	14498.0	100.0
0°-180°	14498.0	100.0

Coefficient of Utilization

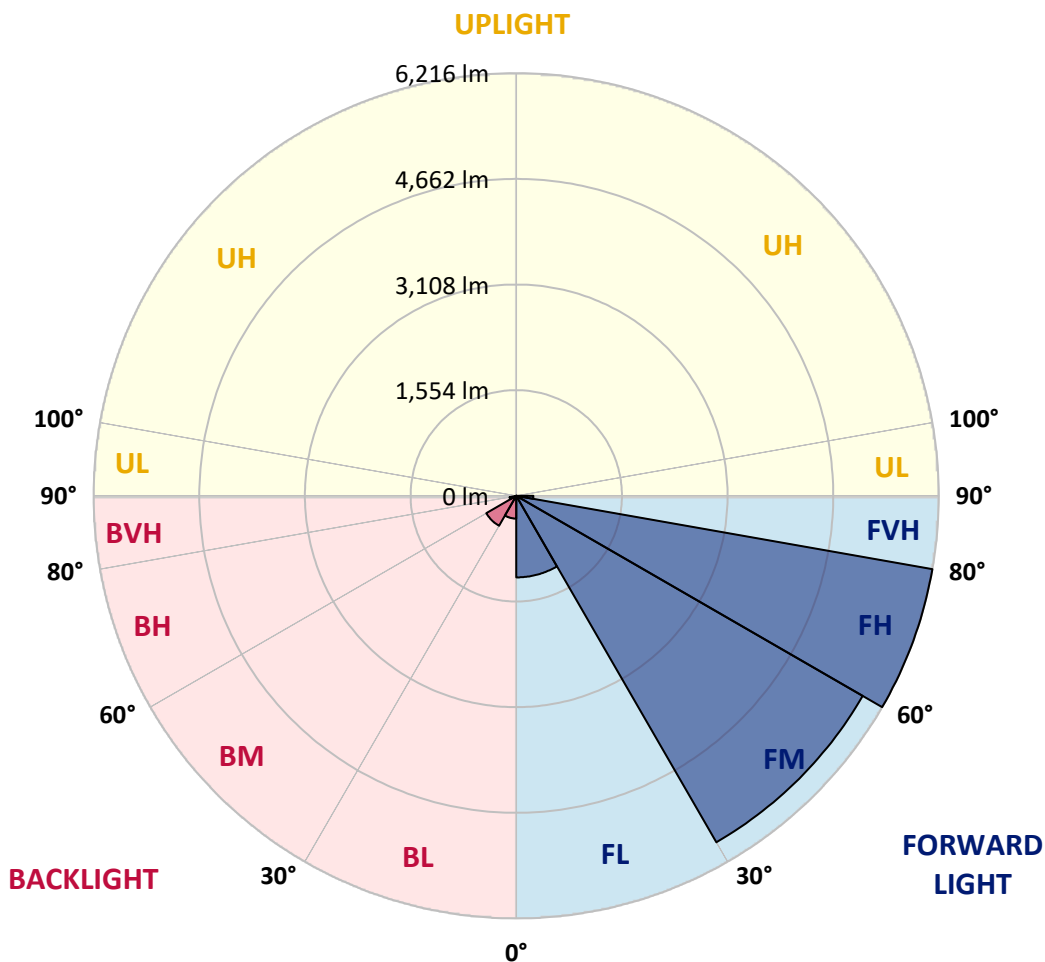


REPORT NUMBER: P648377
 CATALOG NUMBER: GALN-SA4B-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.6	8.3			
FM (30°-60°)	5884.7	40.6			
FH (60°-80°)	6216.3	42.9			G3/7500
FVH (80°-90°)	252.0	1.7			G3/500
BL (0°-30°)	334.7	2.3	B1/500		
BM (30°-60°)	508.8	3.5	B1/1000		
BH (60°-80°)	100.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	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-G3
 Type IV Short





REPORT NUMBER: P648377

CATALOG NUMBER: GALN-SA4B-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2
2.5°	2613.9	2605.1	2593.5	2579.8	2540.8	2534.0	2510.6	2461.0	2401.5	2352.8	2285.6
5°	2737.6	2742.5	2733.7	2709.3	2681.1	2664.5	2635.3	2558.4	2481.4	2383.0	2272.9
7.5°	2765.9	2775.6	2764.9	2741.5	2714.3	2696.7	2673.3	2607.1	2517.4	2405.4	2254.4
10°	2763.0	2774.6	2767.8	2746.4	2724.0	2707.4	2682.1	2629.5	2557.4	2439.5	2260.2
12.5°	2758.1	2773.7	2772.7	2762.0	2743.5	2730.8	2715.2	2668.5	2601.2	2489.2	2292.4
15°	2744.4	2763.9	2781.5	2790.2	2791.2	2791.2	2771.7	2722.0	2657.7	2554.5	2334.3
17.5°	2750.3	2772.7	2816.5	2841.9	2859.4	2857.5	2837.0	2783.4	2712.3	2621.7	2378.1
20°	2786.3	2816.5	2877.9	2928.6	2946.1	2940.2	2913.0	2850.7	2769.8	2679.2	2421.0
22.5°	2875.0	2902.3	2979.2	3038.7	3051.4	3035.8	2996.8	2912.0	2838.9	2741.5	2472.6
25°	3007.5	3039.6	3110.8	3155.6	3155.6	3146.8	3092.2	2992.9	2916.9	2828.2	2539.8
27.5°	3168.3	3195.5	3265.7	3305.6	3282.3	3256.9	3202.3	3082.5	3009.5	2937.3	2620.7
30°	3331.0	3348.5	3422.5	3440.0	3415.7	3383.6	3325.1	3205.3	3140.9	3085.4	2737.6
32.5°	3484.9	3522.9	3584.3	3580.3	3547.2	3531.6	3478.0	3350.4	3314.4	3308.5	2901.3
35°	3638.8	3668.0	3722.6	3736.2	3707.0	3704.1	3665.1	3570.6	3571.6	3609.6	3156.5
37.5°	3771.3	3797.6	3861.9	3892.1	3897.9	3912.6	3897.0	3834.6	3923.3	4027.5	3494.6
40°	3882.3	3919.4	4001.2	4053.8	4114.2	4167.8	4170.7	4184.4	4362.6	4541.9	3935.9
42.5°	3969.0	4020.7	4139.6	4237.0	4375.3	4443.5	4498.1	4573.1	4873.2	5141.1	4456.2
45°	4082.1	4141.5	4289.6	4442.5	4658.8	4770.9	4846.8	5047.5	5473.3	5838.6	4990.1
47.5°	4269.2	4300.3	4451.3	4674.4	4958.9	5118.7	5266.8	5570.7	6117.3	6444.6	5434.3
50°	4509.8	4530.2	4644.2	4954.0	5322.3	5532.8	5802.6	6160.1	6785.6	6947.3	5685.7
52.5°	4775.8	4782.6	4868.3	5261.9	5729.5	5994.5	6296.5	6737.9	7330.2	7305.9	5852.3
55°	5084.6	5074.9	5147.9	5596.0	6211.8	6514.7	6866.4	7329.2	7802.7	7560.1	5947.7
57.5°	5438.2	5411.9	5483.0	6039.4	6829.4	7191.9	7549.4	7839.7	8169.0	7773.5	5993.6
60°	5808.5	5755.8	5840.6	6537.2	7557.2	7901.1	8198.2	8276.2	8554.8	7943.0	5914.6
62.5°	6103.6	6104.6	6262.4	7067.1	8305.4	8606.4	8764.3	8834.4	8887.1	7906.0	5499.6
65°	6564.4	6580.0	6832.4	7802.7	9171.5	9432.6	9540.8	9312.8	8901.6	7446.1	4876.1
67.5°	7039.9	7089.6	7551.3	8816.0	10172.0	10382.5	10243.2	9405.3	8504.2	6396.9	3697.2
70°	7194.8	7276.6	8037.5	9513.4	10772.2	10881.3	10409.8	8973.7	7109.0	4276.9	1860.8
72.5°	6592.7	6725.2	7757.9	9259.2	10389.3	10294.8	9313.8	7526.0	4519.5	1624.1	568.0
75°	4649.1	4707.6	6447.5	7680.9	8356.1	8088.2	7084.7	4851.7	1858.8	455.9	194.8
77.5°	2400.5	2372.3	3834.6	5096.2	5959.4	5681.8	4639.4	2511.6	704.4	190.0	120.8
80°	1241.2	1261.6	1659.1	2670.4	3637.8	3347.5	2473.6	1164.2	375.1	105.2	92.6
82.5°	695.6	652.7	953.8	1166.2	1701.0	1333.8	948.9	824.2	163.6	63.3	87.7
85°	126.7	132.5	523.2	630.3	590.4	375.1	305.9	550.4	47.8	35.1	61.4
87.5°	2.0	2.0	101.3	181.2	114.9	52.6	96.5	78.9	9.7	13.6	10.7
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: P648377

CATALOG NUMBER: GALN-SA4B-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2	2262.2
2.5°	2251.4	2214.5	2145.3	2077.1	1990.4	1919.3	1871.5	1821.8	1771.1	1775.1	1786.7
5°	2212.5	2148.2	2011.8	1867.6	1729.3	1604.6	1481.8	1371.7	1327.0	1286.0	1288.0
7.5°	2173.5	2082.9	1883.2	1657.2	1447.7	1235.3	1081.4	954.8	887.5	836.9	822.2
10°	2156.0	2036.2	1765.4	1454.6	1157.4	925.5	727.7	624.5	544.6	519.3	526.1
12.5°	2163.8	2012.8	1659.1	1271.4	917.8	645.0	506.6	454.0	436.4	433.5	431.6
15°	2178.4	1996.3	1554.9	1068.7	674.2	479.4	425.7	416.0	414.1	412.1	413.1
17.5°	2197.9	1981.6	1443.9	878.8	517.3	418.9	403.3	398.5	397.5	397.5	397.5
20°	2217.4	1965.0	1320.1	709.2	431.6	395.6	385.8	382.9	381.9	381.9	380.9
22.5°	2239.8	1950.5	1194.4	557.3	397.5	379.0	370.2	368.2	367.3	366.3	366.3
25°	2272.0	1931.9	1061.0	455.9	376.1	363.4	354.6	352.7	351.7	347.8	348.7
27.5°	2314.8	1918.3	923.5	393.6	356.6	343.9	338.1	335.1	333.2	330.3	331.2
30°	2373.3	1906.6	777.4	359.5	334.2	323.5	317.6	315.6	313.7	310.8	310.8
32.5°	2474.6	1911.5	623.5	332.2	313.7	301.1	295.2	293.2	291.3	288.4	288.4
35°	2626.6	1939.7	498.8	308.8	289.3	276.7	270.8	270.8	267.9	264.0	263.0
37.5°	2875.0	2011.8	400.4	286.4	266.0	254.2	247.4	245.5	242.6	236.8	235.8
40°	3168.3	2123.8	337.1	264.0	244.5	232.9	227.0	221.1	213.4	207.5	206.6
42.5°	3536.5	2238.8	292.3	241.6	224.1	213.4	206.6	196.8	185.1	177.3	176.3
45°	3920.3	2344.0	262.1	221.1	204.6	195.8	188.0	172.4	157.9	148.1	147.1
47.5°	4206.7	2363.5	237.7	201.7	188.0	179.2	168.6	149.1	129.6	120.8	117.9
50°	4342.2	2269.0	212.3	182.2	171.5	161.7	148.1	125.7	104.2	93.5	91.6
52.5°	4390.0	2105.3	191.9	164.7	154.9	143.2	126.7	101.3	81.8	71.1	70.2
55°	4370.5	1898.8	173.4	148.1	135.4	121.8	105.2	80.9	60.4	51.6	49.7
57.5°	4268.1	1635.8	154.9	131.5	116.0	102.3	83.8	60.4	41.0	33.1	32.2
60°	3992.4	1277.2	136.4	113.0	98.4	83.8	66.2	42.8	25.4	18.5	18.5
62.5°	3526.8	947.9	118.9	94.5	82.8	67.3	46.7	27.2	13.6	9.7	8.8
65°	2947.1	699.5	99.4	79.9	69.1	52.6	33.1	16.6	6.8	2.9	2.0
67.5°	2056.6	431.6	82.8	65.3	56.5	38.0	20.4	6.8	2.9	0.0	0.0
70°	934.3	205.5	63.3	49.7	42.8	27.2	10.7	3.9	2.0	0.0	0.0
72.5°	290.3	108.1	44.8	36.0	29.2	17.5	5.9	2.9	2.0	0.0	0.0
75°	134.4	69.1	28.3	19.5	16.6	8.8	3.9	2.0	0.9	0.0	0.0
77.5°	100.4	53.6	16.6	10.7	8.8	5.9	2.9	2.0	0.9	0.0	0.0
80°	87.7	27.2	9.7	6.8	4.9	3.9	2.0	0.9	0.0	0.0	0.0
82.5°	78.9	13.6	5.9	3.9	2.9	2.0	0.9	0.9	0.0	0.0	0.0
85°	42.8	7.8	3.9	2.9	2.0	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	2.9	2.0	2.0	0.9	0.9	0.9	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)