

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: P648372

Luminaire Tested: **GALN-SA4B-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648372
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-SA4B-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 17593.2 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

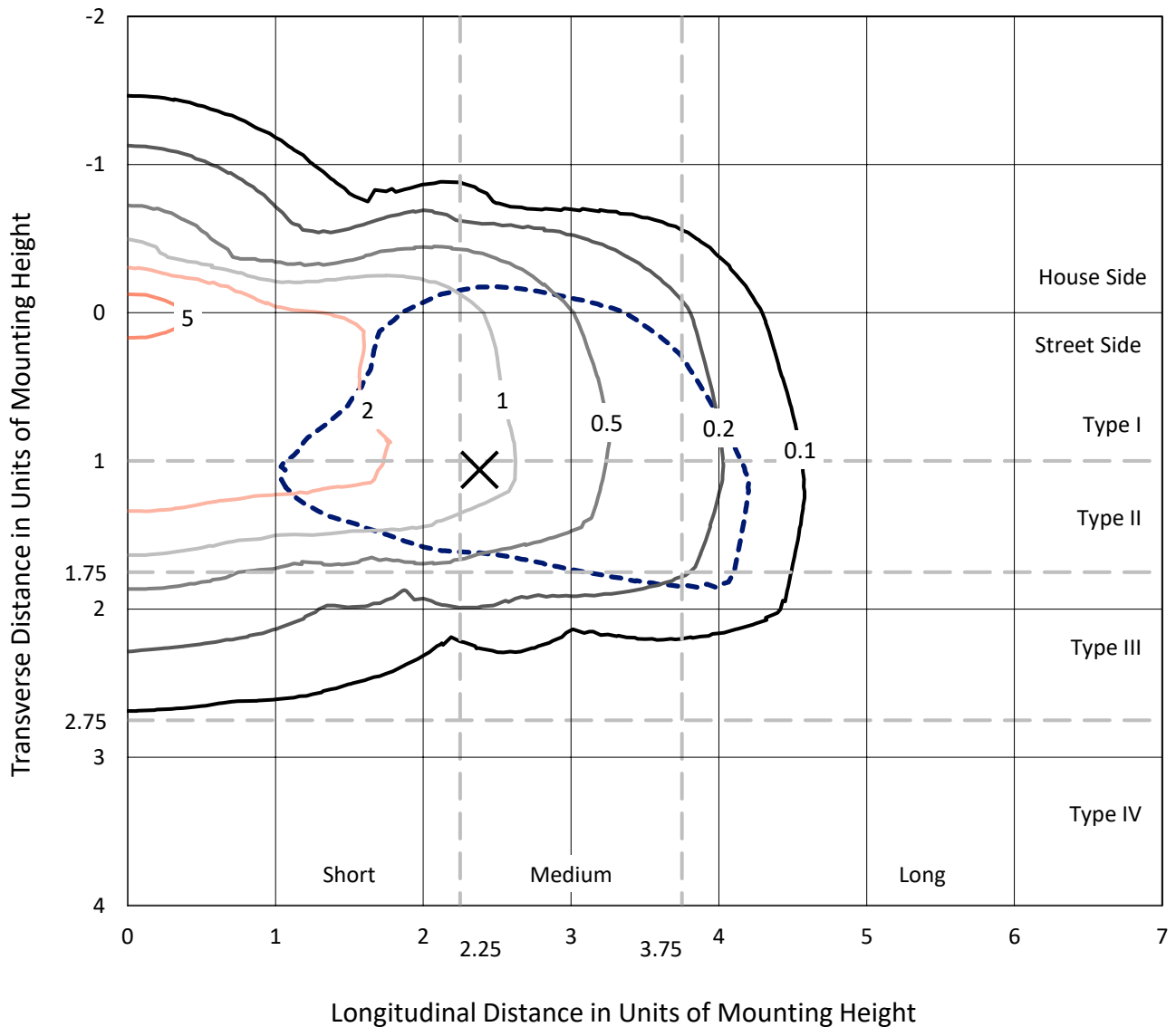
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648372
 CATALOG NUMBER: GALN-SA4B-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

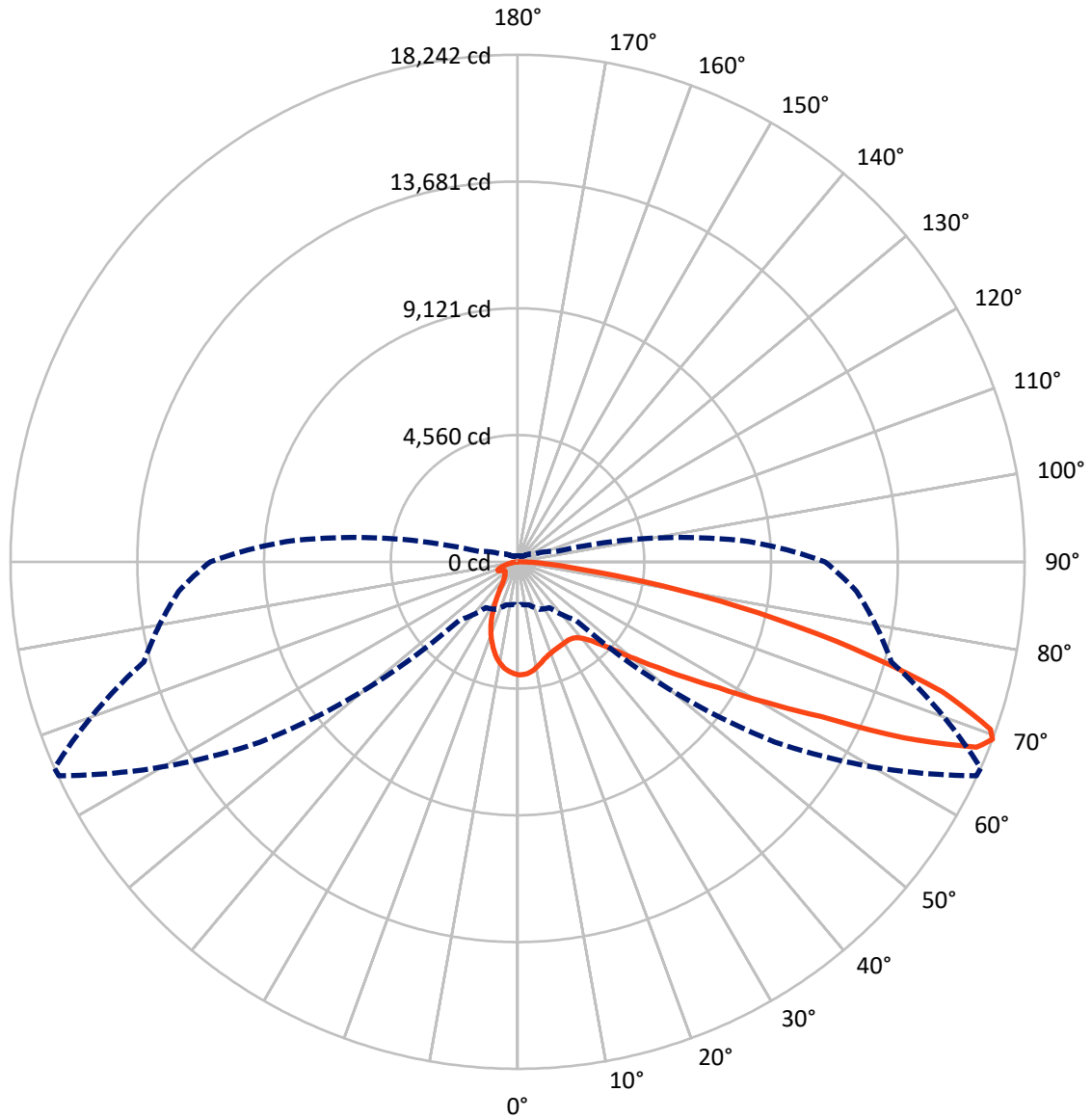
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P648372
CATALOG NUMBER: GALN-SA4B-835-U-SL2

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA4B-835-U-SL2

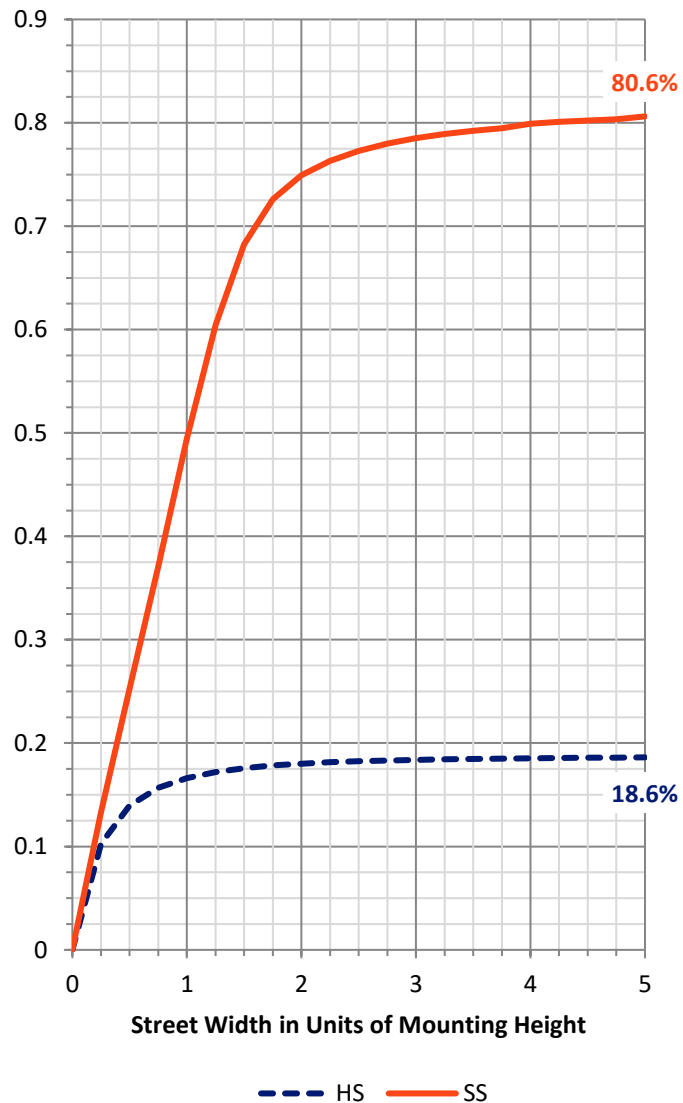
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3308.6	0.0	3308.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14284.6	0.0	14284.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	17593.2	0.0	17593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.8	2.0
10°-20°	836.8	4.8
20°-30°	1139.2	6.5
30°-40°	1530.9	8.7
40°-50°	2285.9	13.0
50°-60°	3636.0	20.7
60°-70°	4472.1	25.4
70°-80°	2909.8	16.5
80°-90°	429.7	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°	17593.2	100.0
0°-180°	17593.2	100.0

Coefficient of Utilization

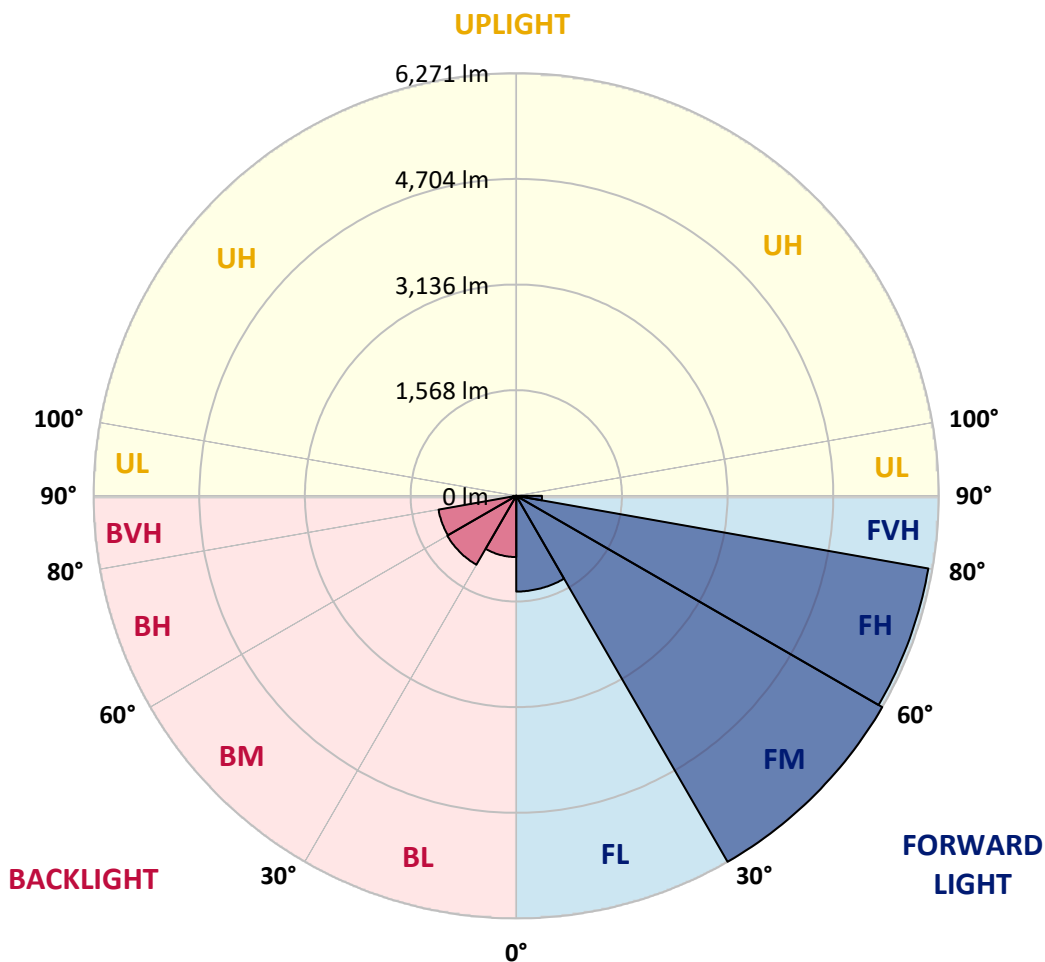


REPORT NUMBER: P648372
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.6	8.1			
FM (30°-60°)	6271.5	35.6			
FH (60°-80°)	6210.5	35.3			G3/7500
FVH (80°-90°)	382.0	2.2			G3/500
BL (0°-30°)	908.2	5.2	B2/1000		
BM (30°-60°)	1181.3	6.7	B2/2500		
BH (60°-80°)	1171.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	47.7	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-G3
 Type III Medium





REPORT NUMBER: P648372

CATALOG NUMBER: GALN-SA4B-835-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8
2.5°	3920.5	3936.1	3953.7	3973.1	4010.1	4030.6	4045.2	4061.8	4063.8	4072.5	4065.6
5°	3631.2	3649.6	3676.0	3713.0	3768.5	3855.3	3944.9	4018.0	4026.7	4067.6	4079.4
7.5°	3389.5	3400.3	3421.7	3481.1	3560.1	3656.5	3787.1	3935.1	3956.6	4054.0	4088.1
10°	3192.8	3203.4	3228.8	3290.2	3368.1	3488.9	3632.1	3827.0	3844.5	4012.1	4090.1
12.5°	3045.6	3055.3	3082.7	3143.0	3232.7	3345.7	3503.5	3710.1	3735.4	3956.6	4071.5
15°	2933.6	2952.1	2974.5	3024.2	3118.7	3227.8	3380.8	3602.9	3623.3	3898.1	4058.8
17.5°	2885.8	2894.6	2910.2	2956.0	3025.1	3132.3	3286.3	3519.1	3543.5	3857.2	4055.9
20°	2887.8	2896.6	2899.4	2924.8	2974.5	3067.0	3219.1	3452.9	3482.1	3821.1	4060.8
22.5°	2954.0	2955.0	2944.3	2935.5	2955.0	3032.0	3171.3	3403.2	3437.3	3805.5	4064.7
25°	3056.4	3073.9	3058.2	3017.4	2981.3	3018.3	3152.7	3375.9	3408.0	3783.1	4059.9
27.5°	3222.0	3224.9	3212.2	3156.7	3063.2	3035.8	3145.0	3355.5	3382.7	3766.6	4035.5
30°	3444.1	3435.3	3423.7	3362.3	3215.2	3103.1	3161.5	3336.9	3365.2	3742.2	4006.2
32.5°	3669.1	3696.5	3685.7	3613.6	3422.6	3233.6	3215.2	3335.0	3358.4	3723.7	3974.1
35°	3907.9	3920.5	3971.2	3934.2	3738.4	3445.0	3315.5	3365.2	3383.7	3724.7	3951.7
37.5°	4094.9	4129.0	4247.9	4280.0	4095.9	3724.7	3478.2	3450.9	3458.7	3772.4	3960.5
40°	4321.0	4379.4	4532.4	4663.9	4543.1	4088.1	3754.9	3609.7	3619.5	3887.4	4018.0
42.5°	4607.4	4648.3	4853.9	5032.2	5012.7	4568.4	4090.1	3869.8	3874.8	4116.4	4178.7
45°	4942.5	5001.0	5231.9	5499.9	5545.6	5112.1	4574.3	4263.4	4260.5	4471.9	4478.8
47.5°	5371.2	5407.2	5636.3	5928.5	6113.7	5795.1	5161.8	4828.5	4797.4	4990.3	4934.8
50°	5765.8	5822.3	5995.7	6315.3	6776.2	6594.9	5934.4	5561.2	5488.1	5668.4	5574.9
52.5°	5931.5	5990.9	6137.0	6533.6	7344.1	7629.6	6915.5	6435.2	6313.3	6451.7	6417.6
55°	5644.0	5721.0	5857.4	6339.6	7593.5	8823.1	8238.6	7445.5	7356.8	7297.4	7307.1
57.5°	4871.4	4944.5	5128.7	5660.6	7295.4	9689.2	10127.7	8744.2	8554.2	8280.5	8327.2
60°	3708.1	3753.9	3849.4	4438.8	6411.8	9914.3	12273.1	10385.9	10265.1	9259.6	9292.7
62.5°	2633.5	2685.1	2751.4	3045.6	4694.1	9280.0	13952.7	12678.3	12246.7	10273.8	10241.6
65°	2138.5	2103.5	2183.4	2320.7	2754.3	7192.2	14330.8	15860.4	15266.1	11609.5	11163.3
67.5°	1758.6	1721.6	1800.5	2045.0	2094.7	4174.8	12968.7	17925.8	17807.0	13062.2	12099.6
69°	1556.9	1537.4	1606.6	1885.2	2010.9	2964.8	11297.8	18213.3	18241.6	13918.6	12243.8
70°	1403.0	1410.7	1478.0	1804.3	1972.9	2444.4	9656.1	17816.8	18056.4	14346.4	12088.0
72.5°	1032.8	1049.3	1142.9	1494.6	1936.9	2074.2	5746.4	15562.2	15986.0	14371.7	11058.2
75°	721.9	714.2	796.9	1125.3	1829.7	2055.8	3374.9	12035.3	12515.6	12422.1	9291.8
77.5°	472.5	485.2	551.5	795.0	1539.4	2040.2	2199.9	8538.6	8850.4	8307.7	5496.0
80°	333.2	332.2	369.3	542.7	1141.8	1960.2	1801.4	5382.0	5303.0	3264.8	1630.0
82.5°	191.0	204.6	247.5	381.9	763.8	1725.4	1657.2	2574.0	2349.9	930.4	550.4
85°	106.2	111.0	147.1	230.9	446.2	1299.7	1446.8	1171.1	1104.8	388.8	236.8
87.5°	34.1	37.0	61.4	116.9	202.6	613.8	819.4	540.7	498.8	140.3	95.4
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: P648372
 CATALOG NUMBER: GALN-SA4B-835-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8	4062.8
2.5°	4068.6	4080.3	4049.1	4018.9	3991.7	3953.7	3919.5	3891.3	3871.8	3868.9	3859.2
5°	4082.2	4083.2	4023.8	3943.9	3866.0	3780.2	3691.5	3628.3	3568.8	3535.7	3519.1
7.5°	4092.0	4083.2	3976.1	3846.5	3696.5	3540.6	3384.7	3259.9	3163.5	3125.5	3140.1
10°	4088.1	4060.8	3904.0	3696.5	3478.2	3245.4	3021.3	2845.9	2685.1	2602.3	2604.3
12.5°	4066.7	4021.9	3796.8	3527.9	3207.3	2895.5	2552.7	2315.9	2129.8	2019.7	1985.6
15°	4048.2	3970.2	3671.1	3298.9	2900.5	2455.2	2037.2	1744.9	1589.0	1502.3	1501.4
17.5°	4028.7	3920.5	3533.8	3056.4	2547.7	1974.9	1536.5	1313.3	1240.3	1249.0	1234.4
20°	4008.2	3862.1	3390.5	2786.5	2118.1	1473.1	1150.6	1060.0	1080.5	1120.4	1126.3
22.5°	3984.8	3799.7	3236.6	2489.3	1666.0	1108.7	933.3	919.7	972.3	1034.7	1043.4
25°	3948.7	3721.8	3042.7	2178.5	1285.1	893.4	817.5	827.2	878.8	931.4	937.3
27.5°	3898.1	3625.3	2846.8	1790.7	965.5	766.8	747.3	760.0	785.3	817.5	825.2
30°	3829.9	3516.2	2621.8	1455.6	773.6	703.4	695.6	702.4	717.1	730.7	734.6
32.5°	3761.7	3411.0	2394.8	1114.6	689.8	661.6	653.7	653.7	653.7	655.7	656.7
35°	3698.3	3311.6	2151.2	868.1	646.0	628.4	617.7	606.0	604.1	597.3	597.3
37.5°	3663.3	3220.9	1892.0	726.8	613.8	601.1	586.5	567.0	556.3	557.3	555.3
40°	3670.2	3161.5	1656.3	646.9	587.5	573.9	551.5	529.1	522.2	522.2	520.3
42.5°	3747.1	3142.1	1430.2	605.0	562.2	546.6	518.3	497.8	494.0	493.0	494.9
45°	3924.4	3189.8	1227.6	577.8	540.7	517.3	489.1	470.6	466.7	466.7	465.7
47.5°	4270.3	3344.7	1082.4	560.2	525.2	494.9	465.7	447.2	440.4	438.4	438.4
50°	4808.1	3680.9	974.3	544.7	505.7	474.5	444.3	422.8	412.1	411.2	410.1
52.5°	5555.4	4205.0	932.4	532.9	484.2	453.0	419.9	399.5	385.8	382.9	380.9
55°	6429.3	4936.7	989.9	524.1	461.8	428.7	394.6	373.2	360.5	354.6	353.7
57.5°	7441.6	5815.5	1208.1	512.5	441.4	402.4	369.3	347.8	334.2	327.4	325.4
60°	8350.6	6718.7	1589.0	505.7	423.8	374.1	340.1	320.6	307.9	301.1	300.0
62.5°	9349.3	7579.9	2044.0	524.1	416.0	346.9	312.7	295.2	284.5	277.7	277.7
65°	10416.1	8442.1	2345.1	586.5	427.7	325.4	283.5	268.9	259.2	254.3	253.3
67.5°	11135.1	8740.3	1932.0	650.8	457.0	302.0	255.3	243.6	237.7	232.9	232.9
69°	11057.1	8363.2	1425.4	667.4	465.7	290.3	239.7	230.9	223.1	221.2	219.2
70°	10810.6	7933.6	1194.5	656.7	458.9	279.6	230.0	219.2	212.4	210.5	209.5
72.5°	9628.9	6880.4	889.5	571.0	390.7	242.6	203.7	193.9	188.0	185.1	185.1
75°	7999.8	5623.6	694.7	454.0	305.9	204.6	174.4	166.6	161.8	159.8	158.8
77.5°	4483.7	3140.1	498.8	355.6	231.8	165.6	146.1	139.3	134.4	132.5	132.5
80°	1249.0	897.3	293.2	234.8	157.9	125.7	116.0	111.0	104.2	99.4	102.3
82.5°	470.6	388.8	167.6	141.3	100.4	83.8	80.9	77.0	74.1	67.3	67.3
85°	228.9	189.0	107.2	75.0	55.5	43.8	41.9	39.9	38.0	33.1	34.1
87.5°	78.9	83.8	46.7	27.2	16.6	10.7	8.8	4.9	4.9	4.9	4.9
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)