

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: P647466

Luminaire Tested: **GALN-SA5D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23750 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

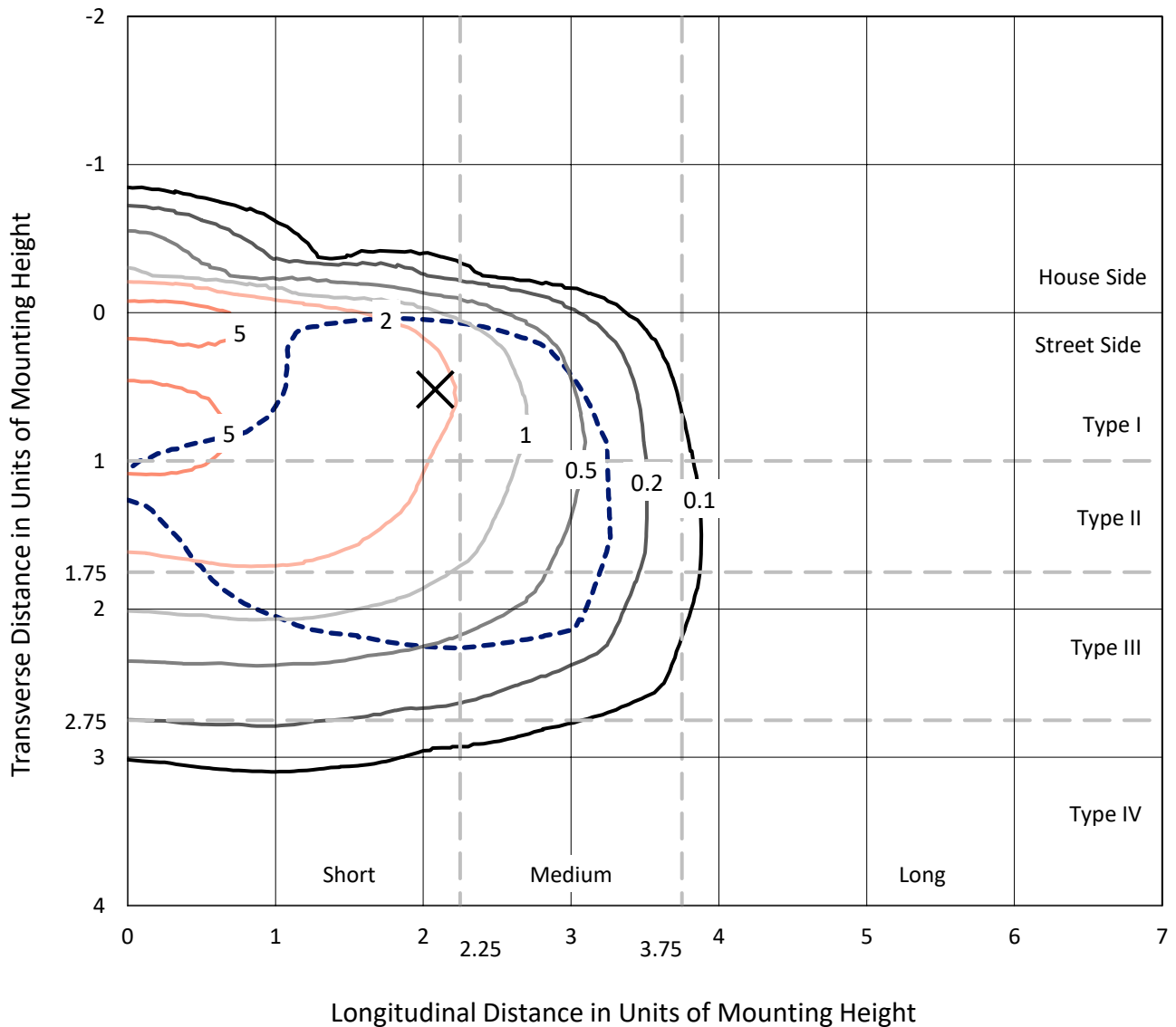
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

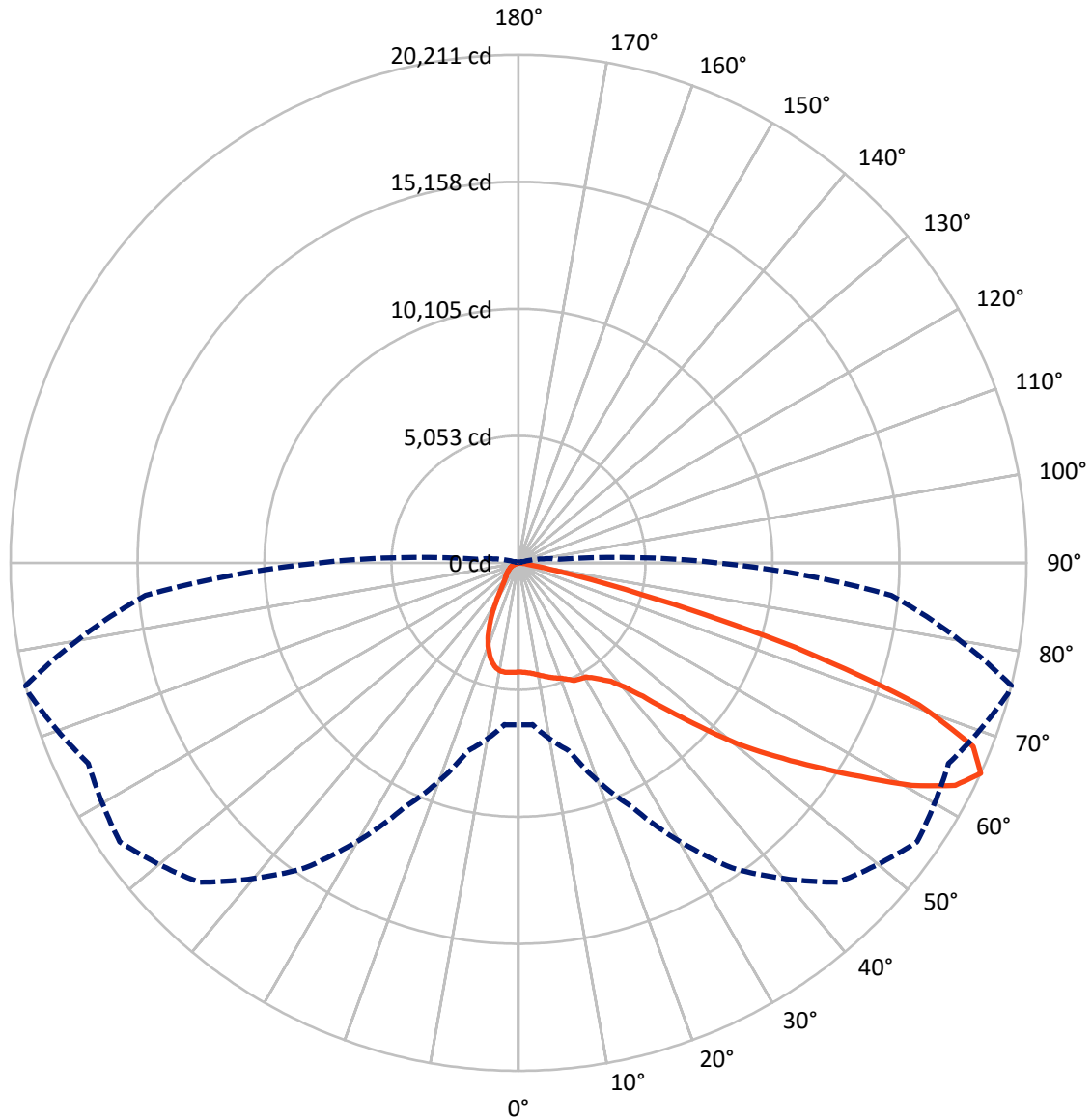
✕ Max cd
 - - - 1/2 Max cd



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 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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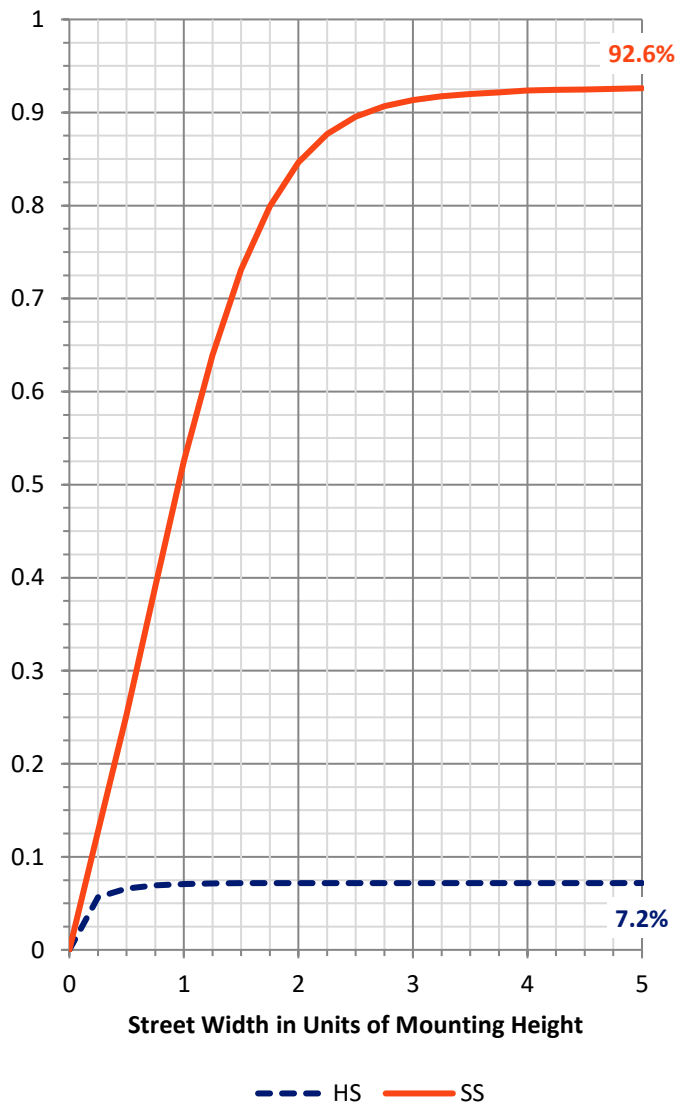
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1715.2	0.0	1715.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22034.7	0.0	22034.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	23750.0	0.0	23750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	1.5
10°-20°	796.9	3.4
20°-30°	1284.1	5.4
30°-40°	2232.7	9.4
40°-50°	3689.5	15.5
50°-60°	5699.4	24.0
60°-70°	6959.8	29.3
70°-80°	2641.4	11.1
80°-90°	88.2	0.4
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°	23750.0	100.0
0°-180°	23750.0	100.0

Coefficient of Utilization



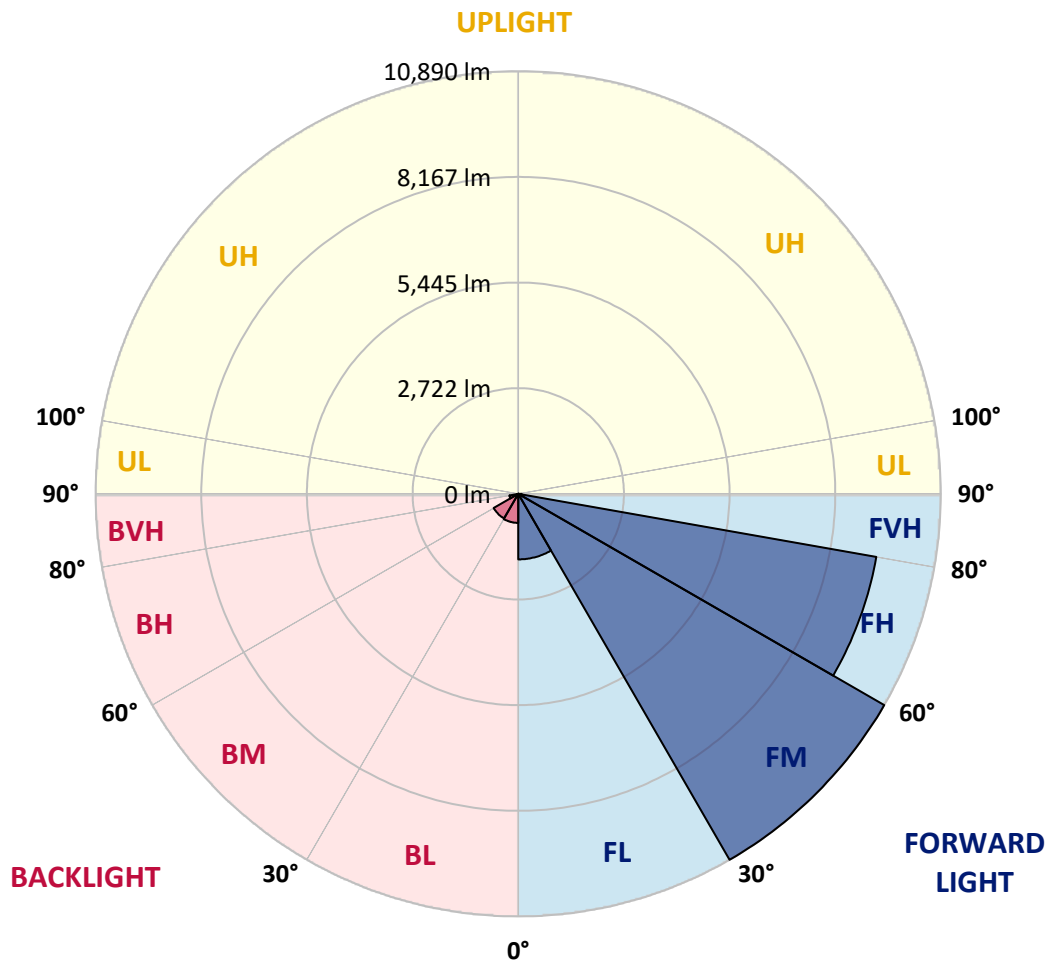
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1689.5	7.1			
FM (30°-60°)	10889.7	45.9			
FH (60°-80°)	9368.6	39.4			G4/12000
FVH (80°-90°)	86.9	0.4			G1/100
BL (0°-30°)	749.3	3.2	B2/1000		
BM (30°-60°)	731.9	3.1	B1/1000		
BH (60°-80°)	232.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6
2.5°	4151.8	4153.5	4163.5	4188.7	4227.3	4259.1	4285.9	4329.5	4359.7	4363.0	4373.1
5°	3865.0	3844.9	3865.0	3930.4	3989.2	4078.0	4187.0	4296.0	4393.3	4400.0	4446.9
7.5°	3543.1	3559.9	3591.7	3658.8	3769.4	3905.3	4062.9	4257.4	4441.9	4458.6	4550.9
10°	3216.1	3253.1	3305.0	3407.3	3561.6	3737.7	3952.3	4230.6	4519.0	4542.5	4701.8
12.5°	2914.3	2931.1	2994.8	3132.3	3323.4	3571.6	3868.4	4215.5	4604.5	4633.0	4862.7
15°	2682.9	2704.7	2760.0	2884.1	3097.1	3415.7	3799.7	4210.5	4688.4	4728.6	5023.7
17.5°	2639.3	2652.7	2676.2	2760.0	2946.2	3291.6	3737.7	4208.8	4768.9	4817.5	5173.0
20°	2818.7	2807.0	2783.5	2775.1	2877.4	3196.0	3692.3	4222.2	4846.0	4901.3	5330.6
22.5°	3268.1	3283.2	3145.7	2983.1	2949.5	3180.9	3685.7	4285.9	4968.4	5033.8	5506.7
25°	4222.2	4106.5	3891.9	3502.8	3209.4	3273.2	3761.1	4436.9	5111.0	5183.1	5665.9
27.5°	5277.0	5241.7	4908.0	4267.5	3720.8	3467.7	3895.3	4552.5	5157.9	5231.7	5756.5
30°	6313.2	6355.1	5972.8	5265.2	4463.6	3828.2	4021.0	4596.1	5199.8	5277.0	5872.2
32.5°	7274.0	7324.3	6989.0	6288.0	5339.0	4451.9	4237.3	4765.5	5375.8	5454.7	6065.0
35°	8030.3	8036.9	7783.8	7225.4	6294.8	5209.8	4705.1	5062.3	5614.0	5706.2	6269.6
37.5°	8724.5	8714.4	8417.6	7936.3	7091.2	5962.8	5293.7	5404.3	5885.7	5981.2	6564.8
40°	9239.2	9246.0	9150.4	8697.6	7834.1	6658.6	5759.8	5724.7	6341.7	6490.9	6994.0
42.5°	9583.0	9645.1	9692.0	9462.2	8768.0	7515.5	6475.9	6410.4	7133.1	7257.2	7601.0
45°	9861.3	9972.0	10206.8	10195.1	9665.1	8566.9	7458.5	7324.3	8254.9	8387.4	8374.0
47.5°	10064.2	10176.6	10565.6	10800.4	10508.6	9586.3	8694.3	8578.5	9594.7	9739.0	9227.5
50°	10168.2	10302.3	10798.7	11253.1	11167.6	10568.9	10102.8	10109.5	11212.9	11352.0	10216.8
52.5°	9925.1	10099.4	10922.8	11741.1	11907.1	11509.6	11422.5	11643.8	12653.2	12772.3	11110.5
55°	9148.7	9368.4	10753.4	12156.9	12763.9	12619.7	12921.5	13258.5	14227.7	14304.9	12027.8
57.5°	8657.4	8890.5	10253.7	12510.7	13793.5	14014.8	14492.7	14739.2	15852.6	16048.8	13080.8
60°	8243.2	8426.0	9842.9	12586.2	14839.8	15721.8	16186.3	16441.2	17858.0	17985.5	14239.5
62.5°	7554.1	7763.7	9148.7	12059.6	15366.3	17088.4	18050.9	17936.9	19409.1	19498.0	14950.4
65°	6445.7	6464.1	7740.2	10736.7	14823.1	17975.4	19360.5	18882.6	20150.3	20210.6	14895.2
67.5°	4810.8	4988.5	5954.4	8439.4	12520.8	17217.5	19784.8	18907.7	19682.4	19514.8	13713.0
70°	3098.7	3234.6	4036.1	5852.1	9028.0	14368.6	18377.9	17611.5	17274.5	16902.3	11224.6
72.5°	1430.3	1604.7	2397.9	3343.6	5354.1	10235.3	14918.6	14308.2	12433.6	11514.7	7134.9
75°	623.7	667.4	1183.8	1764.0	2510.2	5412.7	9836.2	8882.1	5615.7	5129.4	2855.6
77.5°	380.6	409.1	620.4	945.7	986.0	2062.5	5298.7	3875.1	1735.5	1530.9	774.7
80°	258.2	290.1	451.1	494.6	337.0	575.1	1988.7	1034.6	350.5	335.4	166.0
82.5°	125.7	159.3	333.7	276.7	145.9	184.5	578.5	221.4	102.3	95.6	58.7
85°	18.5	31.9	187.8	181.1	65.4	43.6	102.3	55.4	35.2	33.5	26.9
87.5°	0.0	0.0	63.7	28.5	6.7	6.7	11.7	11.7	13.4	11.7	13.4
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°	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6	4344.6
2.5°	4378.1	4386.5	4354.7	4309.4	4260.8	4212.1	4143.4	4081.4	4044.5	4066.3	4012.6
5°	4457.0	4450.3	4366.4	4228.9	4046.2	3826.5	3608.5	3422.4	3362.0	3271.5	3261.4
7.5°	4566.0	4547.5	4369.8	4054.5	3642.0	3229.6	2827.1	2560.5	2407.9	2278.8	2282.1
10°	4718.6	4664.9	4331.2	3747.7	3068.6	2446.5	1933.4	1581.3	1428.7	1380.0	1341.4
12.5°	4876.2	4772.2	4223.9	3333.5	2389.5	1671.8	1175.4	960.8	866.9	836.7	833.3
15°	5017.0	4852.7	4036.1	2835.5	1737.2	1068.2	801.5	731.1	719.3	721.1	719.3
17.5°	5156.2	4916.5	3776.2	2307.3	1180.5	766.3	689.2	672.4	677.5	684.1	682.5
20°	5271.9	4929.8	3444.2	1760.7	835.1	672.4	647.2	643.9	649.0	654.0	654.0
22.5°	5397.7	4939.9	3050.1	1219.1	682.5	625.5	612.1	612.1	618.7	625.5	627.1
25°	5491.6	4884.6	2579.0	875.3	602.0	580.2	573.5	575.1	581.8	585.2	583.6
27.5°	5506.7	4728.6	2079.3	670.7	546.6	524.8	518.1	524.8	516.5	521.5	518.1
30°	5520.1	4530.8	1572.9	565.1	496.3	462.8	452.7	442.7	436.0	427.6	425.9
32.5°	5562.0	4297.7	1148.6	508.1	449.4	412.5	389.0	360.5	338.7	332.0	330.3
35°	5580.4	4017.7	843.4	462.8	407.5	367.2	325.3	285.1	253.2	241.5	249.9
37.5°	5650.8	3746.0	654.0	429.2	370.6	320.2	266.6	216.3	186.1	179.4	182.8
40°	5795.1	3450.9	548.3	400.7	338.7	276.7	211.3	162.6	142.5	135.9	134.1
42.5°	6026.4	3157.4	488.0	374.0	306.9	233.1	166.0	127.5	110.6	105.6	105.6
45°	6308.2	2875.7	446.0	345.5	273.3	187.8	130.8	102.3	92.2	88.9	88.9
47.5°	6678.8	2629.2	410.8	316.9	236.5	149.2	105.6	88.9	82.1	83.9	85.5
50°	7054.4	2446.5	372.2	285.1	194.5	122.4	90.5	78.8	77.1	78.8	78.8
52.5°	7337.7	2339.1	320.2	241.5	152.6	102.3	80.5	73.8	72.1	68.7	68.7
55°	7720.1	2315.6	254.9	196.2	120.7	85.5	72.1	67.1	62.0	58.7	57.0
57.5°	8211.3	2342.5	196.2	152.6	93.9	70.4	63.7	55.4	48.6	41.9	41.9
60°	8516.5	2282.1	152.6	117.4	68.7	57.0	48.6	40.2	31.9	26.9	25.1
62.5°	8419.3	2027.3	120.7	87.2	48.6	41.9	31.9	26.9	18.5	13.4	11.7
65°	7917.9	1636.5	97.2	60.4	35.2	25.1	16.8	16.8	8.4	1.6	0.0
67.5°	6930.3	1212.3	77.1	40.2	20.1	11.7	8.4	5.0	0.0	0.0	0.0
70°	5640.8	875.3	60.4	25.1	11.7	8.4	3.4	1.6	0.0	0.0	0.0
72.5°	3581.7	501.4	47.0	15.1	8.4	3.4	0.0	0.0	0.0	0.0	0.0
75°	1385.0	196.2	31.9	10.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	392.4	92.2	18.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.3	40.2	10.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.6	16.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.5	6.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	1.6	0.0	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)