

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: P652471

Luminaire Tested: **GALN-SA6B-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652471
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-SA6B-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA 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: 22217.5 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

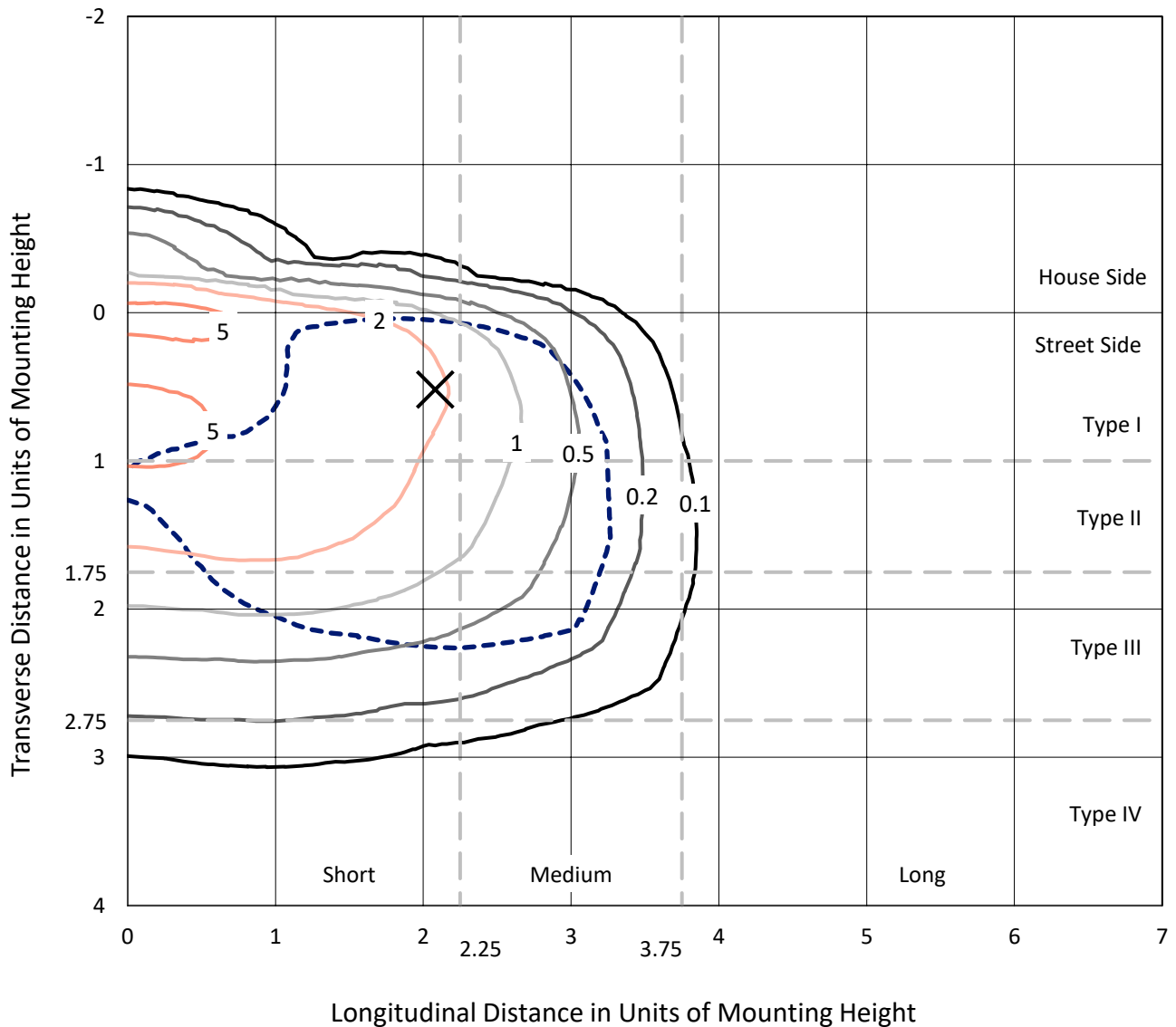
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

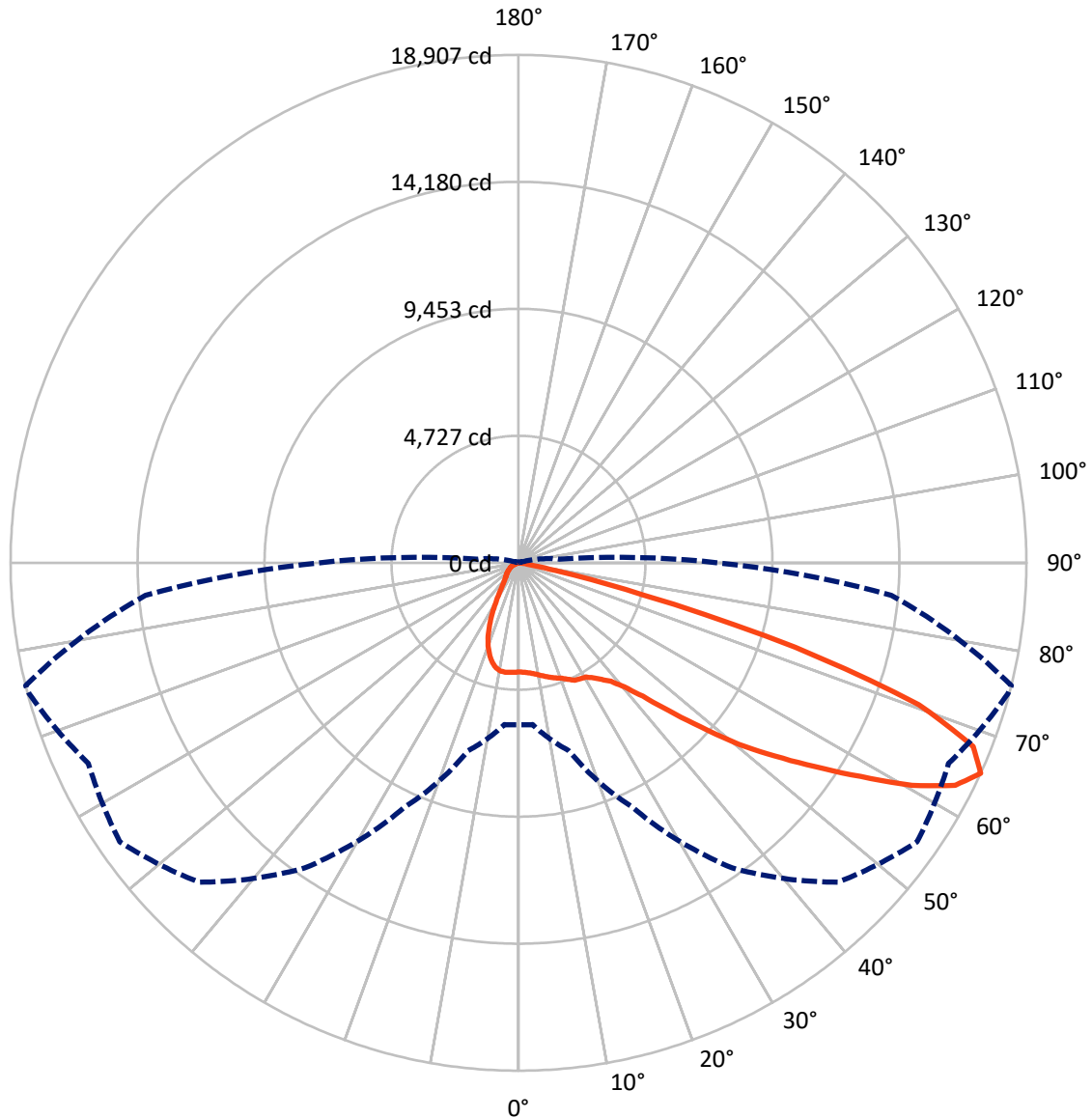
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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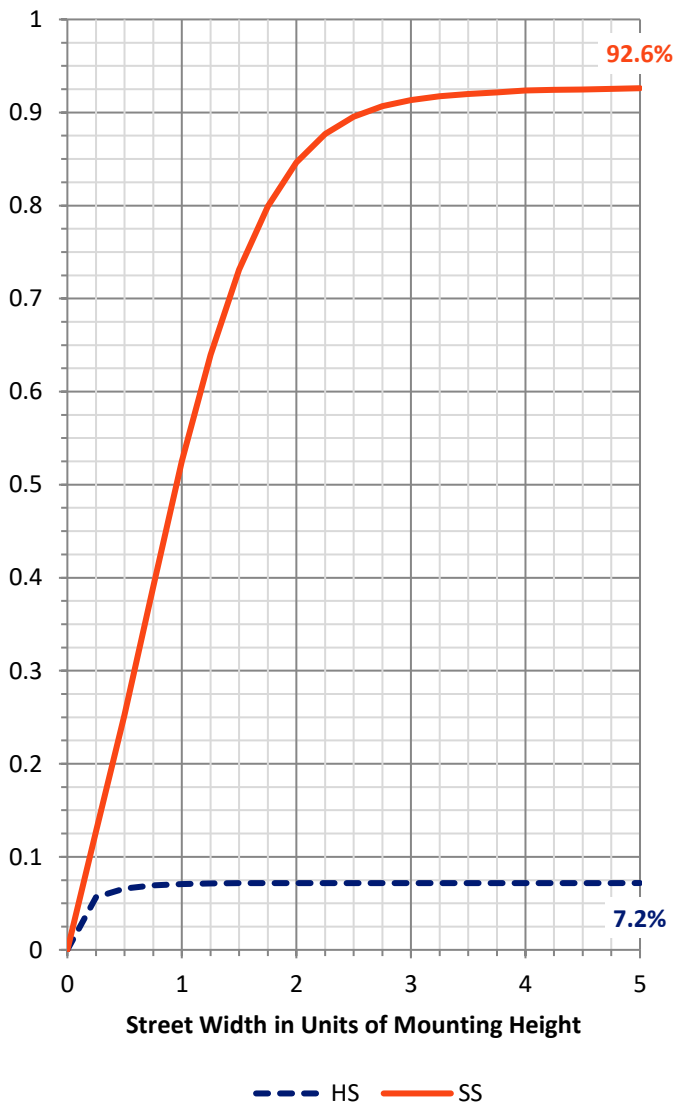
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.5	0.0	1604.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20613.0	0.0	20613.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	22217.5	0.0	22217.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	1.5
10°-20°	745.5	3.4
20°-30°	1201.3	5.4
30°-40°	2088.7	9.4
40°-50°	3451.4	15.5
50°-60°	5331.7	24.0
60°-70°	6510.8	29.3
70°-80°	2471.0	11.1
80°-90°	82.5	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°	22217.5	100.0
0°-180°	22217.5	100.0

Coefficient of Utilization

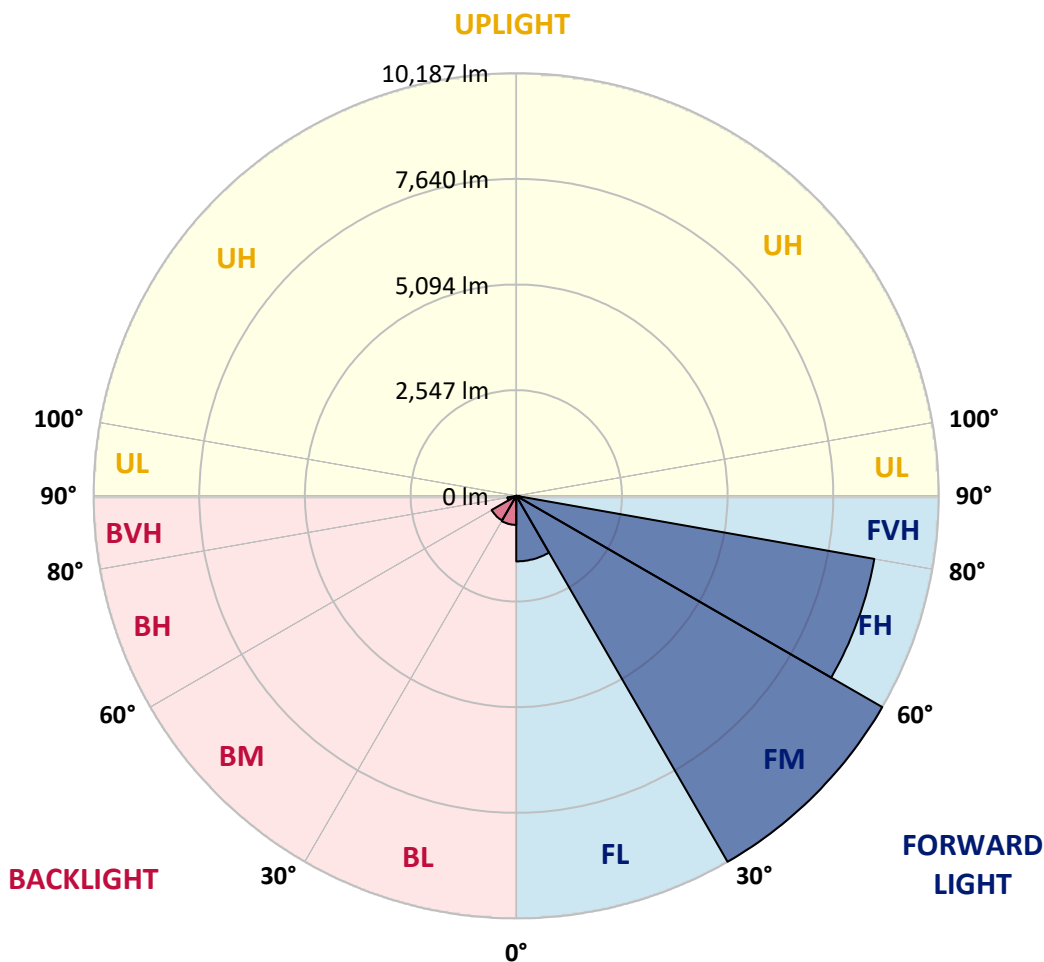


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.5	7.1			
FM (30°-60°)	10187.1	45.9			
FH (60°-80°)	8764.1	39.4			G4/12000
FVH (80°-90°)	81.3	0.4			G1/100
BL (0°-30°)	701.0	3.2	B2/1000		
BM (30°-60°)	684.7	3.1	B1/1000		
BH (60°-80°)	217.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	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°	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3
2.5°	3883.9	3885.5	3894.9	3918.4	3954.5	3984.3	4009.4	4050.2	4078.4	4081.5	4091.0
5°	3615.7	3596.9	3615.7	3676.9	3731.8	3814.9	3916.9	4018.8	4109.8	4116.0	4160.0
7.5°	3314.5	3330.2	3360.0	3422.7	3526.2	3653.3	3800.7	3982.7	4155.3	4170.9	4257.2
10°	3008.6	3043.2	3091.8	3187.5	3331.8	3496.5	3697.2	3957.7	4227.5	4249.4	4398.4
12.5°	2726.3	2741.9	2801.5	2930.2	3109.0	3341.1	3618.8	3943.5	4307.4	4334.1	4549.0
15°	2509.8	2530.1	2582.0	2698.0	2897.2	3195.3	3554.5	3938.8	4385.9	4423.5	4699.6
17.5°	2469.0	2481.5	2503.5	2582.0	2756.0	3079.2	3496.5	3937.2	4461.2	4506.7	4839.2
20°	2636.9	2625.9	2603.9	2596.1	2691.8	2989.8	3454.1	3949.8	4533.3	4585.0	4986.6
22.5°	3057.2	3071.3	2942.7	2790.6	2759.2	2975.7	3447.8	4009.4	4647.8	4709.0	5151.4
25°	3949.8	3841.5	3640.8	3276.9	3002.4	3061.9	3518.4	4150.6	4781.2	4848.6	5300.4
27.5°	4936.4	4903.5	4591.4	3992.1	3480.7	3243.9	3643.9	4258.8	4825.1	4894.1	5385.1
30°	5905.8	5945.1	5587.4	4925.5	4175.6	3581.1	3761.5	4299.6	4864.3	4936.4	5493.3
32.5°	6804.7	6851.7	6538.0	5882.3	4994.5	4164.7	3963.9	4458.1	5029.0	5102.7	5673.7
35°	7512.1	7518.4	7281.5	6759.2	5888.6	4873.7	4401.5	4735.7	5251.7	5338.0	5865.0
37.5°	8161.6	8152.1	7874.5	7424.3	6633.7	5578.0	4952.1	5055.7	5505.9	5595.3	6141.2
40°	8643.1	8649.3	8560.0	8136.4	7328.6	6229.0	5388.2	5355.2	5932.5	6072.1	6542.7
42.5°	8964.6	9022.7	9066.7	8851.7	8202.4	7030.6	6058.0	5996.8	6672.9	6789.0	7110.6
45°	9225.1	9328.6	9548.2	9537.2	9041.5	8014.1	6977.2	6851.7	7722.3	7846.3	7833.7
47.5°	9414.8	9520.0	9883.9	10103.5	9830.5	8967.8	8133.3	8025.1	8975.7	9110.6	8632.1
50°	9512.1	9637.6	10101.9	10527.0	10447.0	9887.0	9450.9	9457.2	10489.4	10619.6	9557.6
52.5°	9284.6	9447.8	10218.0	10983.5	11138.8	10767.0	10685.4	10892.5	11836.8	11948.2	10393.7
55°	8558.4	8763.9	10059.5	11372.5	11940.3	11805.5	12087.8	12403.1	13309.8	13381.9	11251.7
57.5°	8098.8	8316.8	9592.1	11703.4	12903.5	13110.5	13557.6	13788.2	14829.8	15013.3	12236.8
60°	7711.4	7882.4	9207.8	11774.1	13882.3	14707.4	15141.9	15380.3	16705.8	16825.0	13320.8
62.5°	7066.7	7262.7	8558.4	11281.5	14374.9	15985.8	16886.2	16779.5	18156.8	18239.9	13985.8
65°	6029.8	6047.0	7240.8	10043.9	13866.6	16815.6	18111.3	17664.3	18850.1	18906.6	13934.0
67.5°	4500.4	4666.6	5570.2	7894.9	11712.9	16106.6	18508.1	17687.7	18412.4	18255.6	12828.2
70°	2898.8	3025.8	3775.7	5474.5	8445.5	13441.5	17192.1	16475.2	16159.9	15811.7	10500.4
72.5°	1338.0	1501.2	2243.1	3127.8	5008.6	9574.9	13956.1	13385.0	11631.3	10771.7	6674.5
75°	583.5	624.3	1107.4	1650.2	2348.2	5063.5	9201.5	8309.0	5253.3	4798.4	2671.4
77.5°	356.1	382.7	580.4	884.7	922.3	1929.4	4956.9	3625.0	1623.6	1432.1	724.7
80°	241.5	271.4	421.9	462.7	315.3	538.1	1860.4	967.8	327.8	313.7	155.3
82.5°	117.7	149.0	312.2	258.9	136.5	172.6	541.2	207.1	95.7	89.4	54.9
85°	17.2	29.8	175.7	169.4	61.1	40.8	95.7	51.8	33.0	31.4	25.1
87.5°	0.0	0.0	59.6	26.7	6.3	6.3	11.0	11.0	12.5	11.0	12.5
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°	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3	4064.3
2.5°	4095.7	4103.5	4073.7	4031.3	3985.8	3940.3	3876.1	3818.1	3783.5	3803.9	3753.7
5°	4169.4	4163.1	4084.7	3956.1	3785.1	3579.6	3375.7	3201.5	3145.1	3060.4	3051.0
7.5°	4271.4	4254.1	4087.8	3792.9	3407.1	3021.1	2644.7	2395.3	2252.5	2131.8	2134.9
10°	4414.1	4363.9	4051.8	3505.9	2870.6	2288.6	1808.7	1479.2	1336.4	1290.9	1254.9
12.5°	4561.6	4464.3	3951.4	3118.4	2235.3	1563.9	1099.6	898.9	811.0	782.7	779.6
15°	4693.3	4539.5	3775.7	2652.5	1625.1	999.2	749.8	683.9	673.0	674.5	673.0
17.5°	4823.5	4599.2	3532.5	2158.4	1104.3	716.9	644.7	629.0	633.7	640.0	638.4
20°	4931.7	4611.7	3222.0	1647.0	781.2	629.0	605.5	602.3	607.0	611.7	611.7
22.5°	5049.4	4621.1	2853.3	1140.4	638.4	585.1	572.6	572.6	578.9	585.1	586.7
25°	5137.2	4569.4	2412.6	818.8	563.1	542.8	536.5	538.1	544.3	547.4	545.9
27.5°	5151.4	4423.5	1945.1	627.5	511.4	491.0	484.7	491.0	483.2	487.9	484.7
30°	5163.9	4238.4	1471.3	528.7	464.3	432.9	423.5	414.1	407.8	400.0	398.5
32.5°	5203.1	4020.4	1074.5	475.3	420.4	385.9	363.9	337.2	316.9	310.6	309.0
35°	5220.3	3758.4	789.0	432.9	381.1	343.5	304.3	266.7	236.8	225.9	233.7
37.5°	5286.3	3504.3	611.7	401.6	346.7	299.6	249.4	202.3	174.1	167.9	171.0
40°	5421.2	3228.3	512.9	374.9	316.9	258.9	197.6	152.1	133.3	127.1	125.5
42.5°	5637.6	2953.7	456.5	349.8	287.0	218.1	155.3	119.3	103.5	98.8	98.8
45°	5901.1	2690.2	417.2	323.1	255.7	175.7	122.4	95.7	86.3	83.2	83.2
47.5°	6247.8	2459.6	384.3	296.5	221.2	139.6	98.8	83.2	76.9	78.5	80.0
50°	6599.2	2288.6	348.3	266.7	182.0	114.5	84.7	73.8	72.2	73.8	73.8
52.5°	6864.3	2188.2	299.6	225.9	142.7	95.7	75.3	69.0	67.4	64.3	64.3
55°	7221.9	2166.2	238.4	183.5	112.9	80.0	67.4	62.7	58.0	54.9	53.3
57.5°	7681.5	2191.4	183.5	142.7	87.9	65.9	59.6	51.8	45.5	39.2	39.2
60°	7967.0	2134.9	142.7	109.8	64.3	53.3	45.5	37.7	29.8	25.1	23.5
62.5°	7876.0	1896.5	112.9	81.6	45.5	39.2	29.8	25.1	17.2	12.5	11.0
65°	7407.0	1531.0	91.0	56.4	33.0	23.5	15.7	15.7	7.8	1.6	0.0
67.5°	6483.1	1134.1	72.2	37.7	18.8	11.0	7.8	4.7	0.0	0.0	0.0
70°	5276.9	818.8	56.4	23.5	11.0	7.8	3.1	1.6	0.0	0.0	0.0
72.5°	3350.5	469.0	43.9	14.1	7.8	3.1	0.0	0.0	0.0	0.0	0.0
75°	1295.6	183.5	29.8	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	367.1	86.3	17.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.7	37.7	9.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.7	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	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)