

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: P652521

Luminaire Tested: **GALN-SA7B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19904.8 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

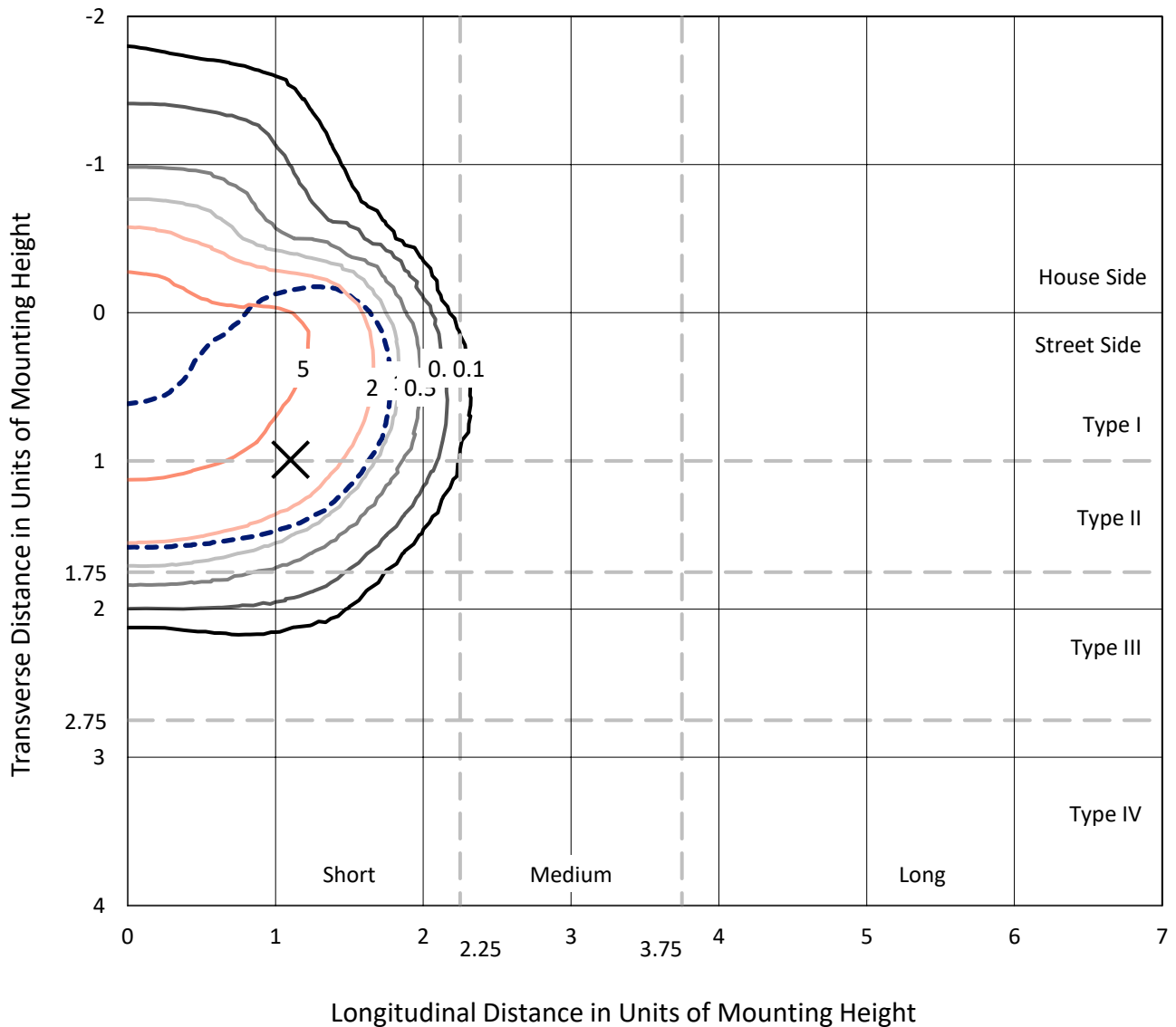
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

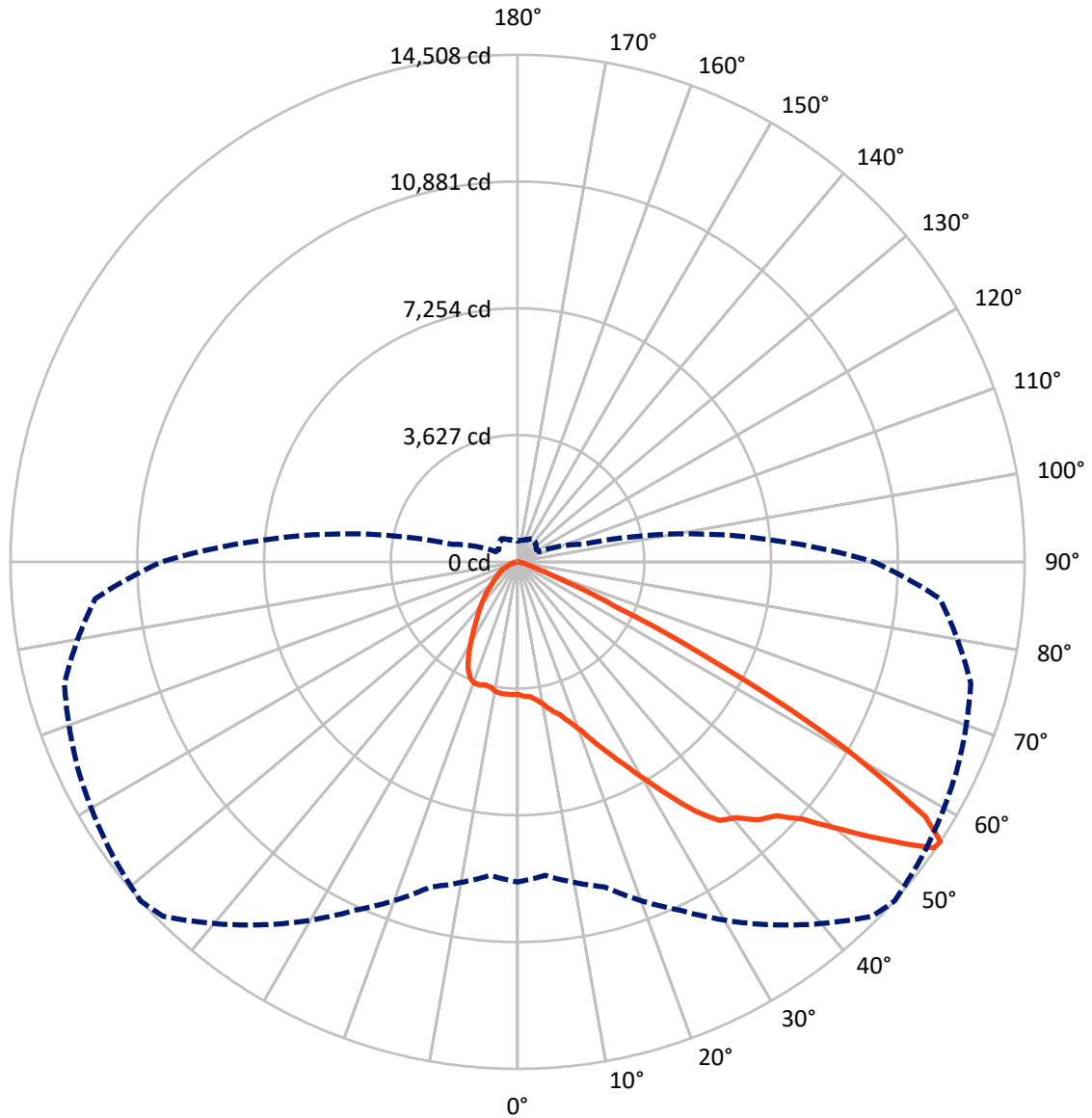
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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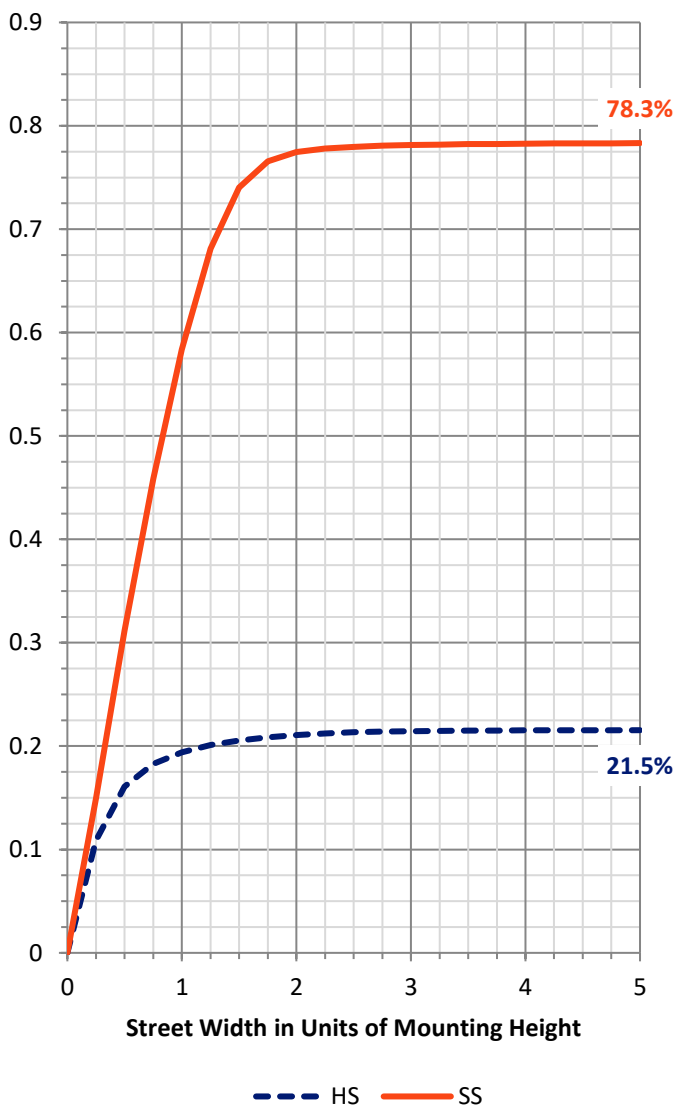
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.9	0.0	4328.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15575.9	0.0	15575.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	19904.8	0.0	19904.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.3	1.9
10°-20°	1183.5	5.9
20°-30°	2146.7	10.8
30°-40°	3372.0	16.9
40°-50°	4919.2	24.7
50°-60°	5926.7	29.8
60°-70°	1735.3	8.7
70°-80°	220.1	1.1
80°-90°	30.9	0.2
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°	19904.8	100.0
0°-180°	19904.8	100.0

Coefficient of Utilization



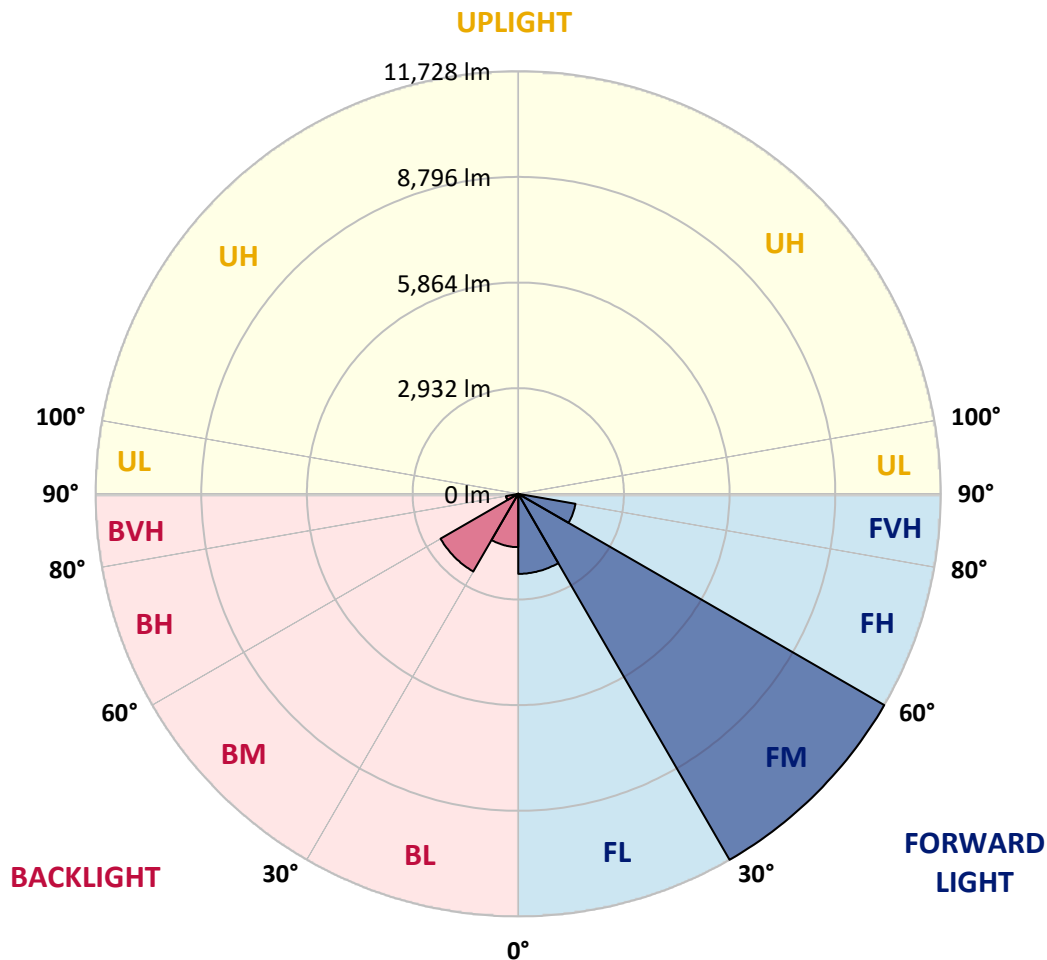
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2221.0	11.2			
FM (30°-60°)	11728.0	58.9			
FH (60°-80°)	1611.4	8.1			G1/1800
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1479.6	7.4	B3/2500		
BM (30°-60°)	2490.0	12.5	B2/2500		
BH (60°-80°)	344.0	1.7	B1/500		G1/500
BVH (80°-90°)	15.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8
2.5°	3870.7	3852.5	3852.5	3823.6	3856.2	3841.7	3852.5	3816.3	3852.5	3798.2	3841.7
5°	3888.8	3892.4	3877.9	3896.0	3896.0	3917.8	3881.6	3914.2	3932.3	3892.4	3874.3
7.5°	3983.1	3990.3	3986.7	3972.1	4001.1	3997.5	3993.9	3968.5	3975.8	3961.3	3939.6
10°	4167.9	4164.2	4182.4	4146.1	4124.3	4149.7	4157.0	4117.1	4088.1	4077.3	4008.4
12.5°	4436.0	4392.5	4367.2	4331.0	4341.8	4305.6	4370.8	4302.0	4287.5	4222.2	4153.4
15°	4653.5	4646.3	4649.9	4591.9	4526.7	4541.1	4541.1	4504.9	4483.2	4403.5	4305.6
17.5°	5099.3	4947.1	4979.7	4907.2	4852.8	4849.2	4816.6	4823.9	4765.9	4599.2	4450.6
20°	5447.2	5382.0	5331.3	5208.1	5124.6	5150.0	5135.6	5099.3	5081.2	4863.8	4653.5
22.5°	5758.9	5780.7	5697.3	5664.6	5548.7	5559.6	5588.6	5556.0	5418.2	5193.5	4881.8
25°	6197.4	6172.1	6059.7	6019.9	5911.1	5951.0	6063.4	6038.0	5951.0	5545.0	5059.5
27.5°	6715.7	6628.8	6650.5	6469.2	6364.2	6476.5	6610.6	6737.4	6491.0	5958.2	5269.6
30°	7081.7	6991.1	6983.9	6976.7	6951.3	7081.7	7237.6	7353.5	7154.2	6371.4	5617.5
32.5°	7263.0	7284.7	7346.3	7324.6	7545.6	7813.8	7977.0	8143.7	7893.6	7045.5	6077.8
35°	7745.0	7607.3	7745.0	7759.5	7987.8	8556.8	8763.4	9162.1	9100.5	7998.7	6639.6
37.5°	8027.7	8016.8	8034.9	8172.7	8393.8	9096.8	9390.4	9698.5	9582.4	8571.3	7339.1
40°	8495.2	8524.2	8520.6	8625.7	8868.5	9502.7	9622.4	9872.4	9883.3	9365.0	8368.4
42.5°	9245.4	9129.5	9053.4	9162.1	9502.7	9854.3	10093.5	10042.7	10401.6	10329.1	9691.2
45°	9919.5	9988.4	9876.0	10057.3	10180.5	10368.9	10361.7	10470.4	10927.0	11271.3	10687.8
47.5°	10550.2	10593.7	10648.0	10771.2	11039.4	11068.4	11006.8	10959.7	11590.3	11945.5	11459.8
50°	10927.0	10967.0	11220.6	11441.7	11941.9	12007.1	12043.4	11923.7	12351.4	12391.3	12188.3
52.5°	10825.6	10869.1	11224.2	11952.7	12750.1	13348.1	13239.4	13036.3	13011.0	13166.9	12862.4
55°	9926.7	9886.9	10376.2	11510.6	13003.8	14439.0	14453.4	14239.6	13830.1	13725.0	12760.9
56°	9162.1	9006.2	9629.6	10999.5	12677.6	14344.7	14507.8	14279.5	13895.3	13424.2	12133.9
57.5°	7505.8	7654.4	8274.1	9408.5	11550.5	13667.0	13761.2	13706.9	13416.9	12626.9	10677.0
60°	4138.9	4399.9	4947.1	6335.2	8223.4	10488.5	10564.6	11006.8	11061.2	9669.5	7346.3
62.5°	1757.8	1728.8	2297.8	3319.8	4682.5	6331.6	6472.9	6925.9	7009.2	5574.1	3685.9
65°	714.0	753.9	1040.1	1670.7	2475.3	2884.9	3084.2	3232.8	3508.2	2301.4	1359.1
67.5°	471.1	467.5	612.5	953.2	1333.7	1286.6	1286.6	1359.1	1257.6	938.6	587.1
70°	337.1	347.9	438.5	659.6	830.0	616.1	590.7	565.4	641.5	619.7	474.7
72.5°	221.1	235.6	293.6	395.0	431.3	337.1	337.1	406.0	529.2	500.1	387.8
75°	145.0	148.6	181.2	228.3	213.9	174.0	192.1	271.8	384.2	369.7	275.4
77.5°	97.9	101.5	123.2	148.6	119.6	97.9	105.1	137.8	188.5	188.5	145.0
80°	36.2	39.9	50.7	47.1	54.3	68.9	76.1	94.2	112.4	112.4	97.9
82.5°	0.0	3.6	10.8	25.4	39.9	54.3	61.6	72.5	83.3	94.2	90.6
85°	0.0	3.6	10.8	18.1	29.0	32.6	36.2	25.4	21.8	21.8	18.1
87.5°	0.0	0.0	3.6	3.6	3.6	3.6	3.6	3.6	7.2	3.6	3.6
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°	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8	3801.8
2.5°	3801.8	3798.2	3798.2	3787.4	3809.1	3798.2	3805.4	3801.8	3754.7	3791.0	3765.6
5°	3841.7	3867.1	3827.2	3819.9	3791.0	3801.8	3801.8	3765.6	3798.2	3794.6	3787.4
7.5°	3943.2	3899.7	3856.2	3812.7	3805.4	3794.6	3754.7	3740.2	3765.6	3736.6	3780.0
10°	3986.7	3993.9	3928.6	3870.7	3816.3	3740.2	3685.9	3653.2	3613.4	3656.8	3682.2
12.5°	4186.0	4113.5	4001.1	3910.6	3725.7	3649.6	3595.3	3580.7	3649.6	3664.1	3638.8
15°	4254.9	4243.9	4099.0	3896.0	3703.9	3613.4	3624.2	3595.3	3602.5	3566.3	3573.5
17.5°	4396.2	4273.0	4102.7	3848.9	3700.3	3678.6	3613.4	3497.4	3432.1	3403.2	3428.5
20°	4552.1	4432.4	4186.0	3867.1	3732.9	3675.0	3461.1	3319.8	3185.7	3113.2	3116.8
22.5°	4689.8	4541.1	4149.7	3874.3	3762.0	3522.8	3265.4	2986.4	2819.6	2707.3	2711.0
25°	4856.4	4646.3	4164.2	3888.8	3685.9	3279.9	2910.3	2638.5	2439.2	2363.0	2388.4
27.5°	4950.7	4711.5	4243.9	3921.4	3486.5	2935.6	2537.0	2283.2	2167.3	2131.0	2127.4
30°	5233.4	4856.4	4341.8	3856.2	3153.1	2566.0	2196.3	2040.4	1928.1	1895.4	1902.8
32.5°	5653.8	5121.0	4468.7	3685.9	2812.4	2236.1	1975.2	1859.2	1754.2	1692.5	1685.3
35°	6005.3	5574.1	4602.8	3421.3	2417.4	1982.5	1819.3	1674.4	1514.9	1446.1	1427.9
37.5°	6675.9	6085.1	4573.8	3022.6	2040.4	1794.0	1652.6	1475.0	1337.4	1243.1	1232.2
40°	7567.4	6683.1	4432.4	2537.0	1761.4	1627.3	1475.0	1304.7	1134.4	1054.6	1047.4
42.5°	8651.0	7415.2	4175.1	2044.1	1482.3	1460.6	1322.8	1127.1	974.9	916.9	920.6
45°	9531.7	8042.1	3914.2	1641.8	1275.7	1297.5	1177.9	993.1	887.9	840.8	840.8
47.5°	10314.6	8466.2	3631.5	1355.4	1083.6	1134.4	1029.3	920.6	830.0	793.7	786.4
50°	11068.4	8897.5	3348.8	1098.2	924.2	974.9	964.0	877.1	804.6	761.1	764.7
52.5°	11539.5	8966.3	2990.0	898.8	808.2	866.2	902.4	822.7	742.9	717.6	710.3
55°	10963.3	8078.4	2319.5	739.3	685.0	761.1	830.0	739.3	677.8	634.3	630.6
56°	10187.7	7223.1	1938.9	681.4	648.7	732.1	804.6	706.7	637.9	612.5	594.3
57.5°	8625.7	5911.1	1431.6	605.3	601.7	681.4	764.7	674.1	594.3	572.6	572.6
60°	5378.4	3327.1	866.2	507.4	521.9	605.3	688.6	601.7	529.2	529.2	540.0
62.5°	2450.0	1384.5	525.5	431.3	449.4	521.9	612.5	543.6	503.8	543.6	550.9
65°	833.6	598.0	380.6	344.3	355.2	431.3	525.5	550.9	547.2	572.6	587.1
67.5°	467.5	384.2	318.9	286.3	279.0	318.9	431.3	550.9	529.2	518.2	525.5
70°	395.0	326.1	282.7	253.7	242.8	257.3	333.5	416.8	373.3	362.4	355.2
72.5°	318.9	271.8	246.4	228.3	195.7	166.7	152.2	159.5	177.6	188.5	206.5
75°	224.7	206.5	206.5	184.9	141.4	105.1	83.3	68.9	47.1	32.6	36.2
77.5°	126.8	126.8	130.4	112.4	90.6	68.9	50.7	36.2	18.1	7.2	3.6
80°	87.0	94.2	101.5	90.6	76.1	61.6	43.5	25.4	10.8	0.0	0.0
82.5°	87.0	97.9	105.1	90.6	76.1	58.0	43.5	25.4	10.8	3.6	0.0
85°	18.1	21.8	25.4	29.0	43.5	43.5	32.6	21.8	10.8	3.6	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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)