

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: P648554

Luminaire Tested: **GALN-SA7B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26030 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

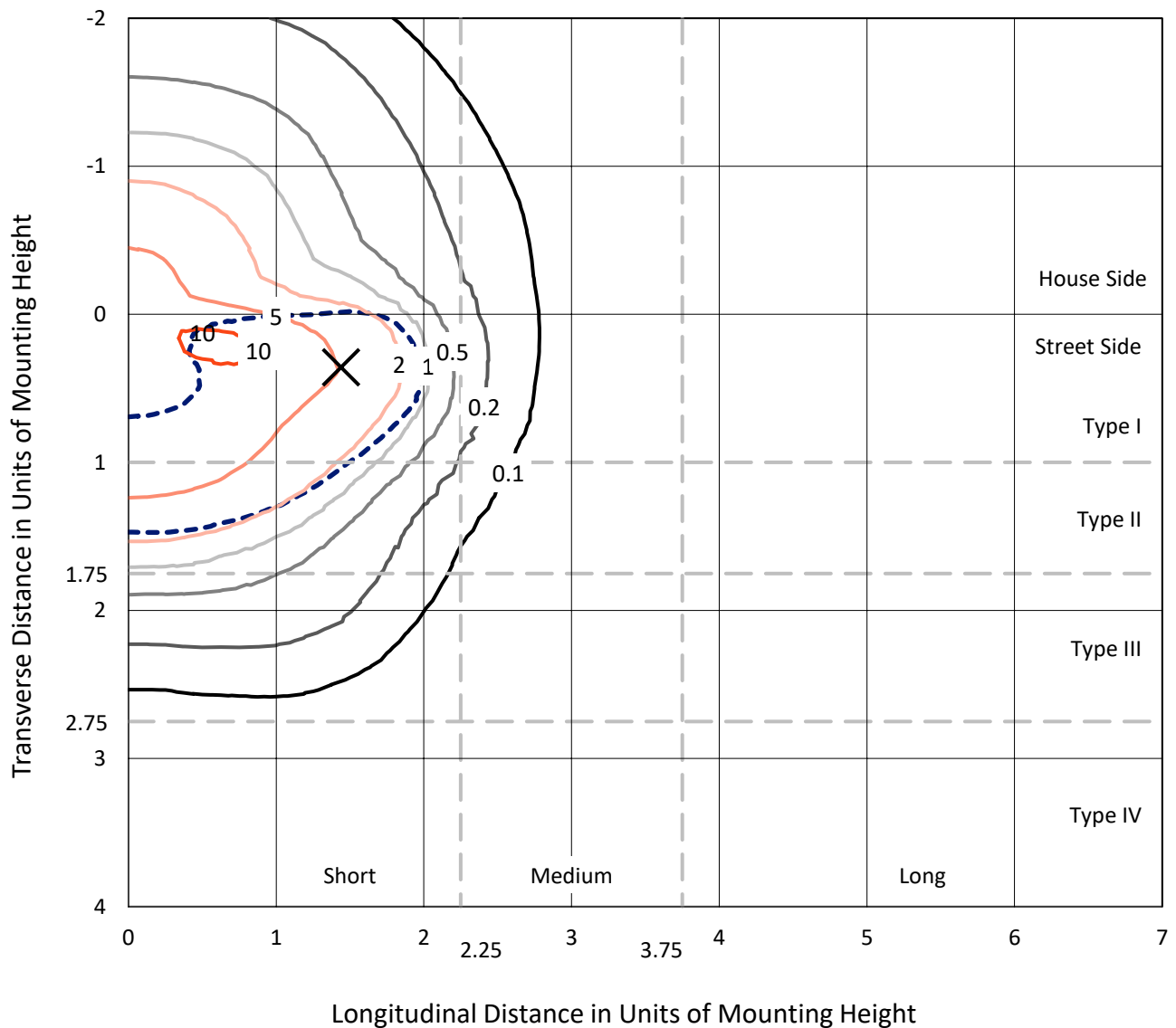
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

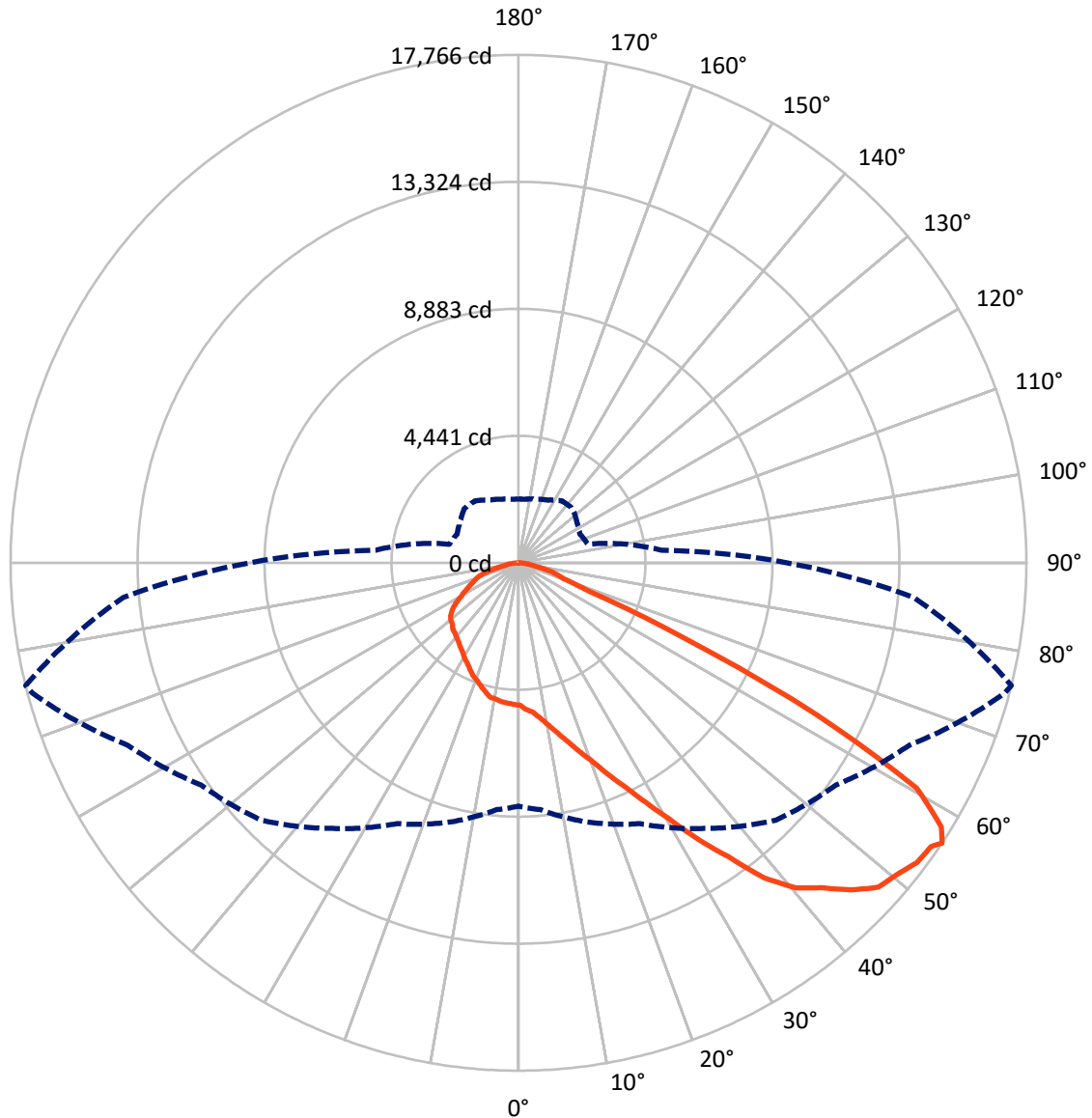
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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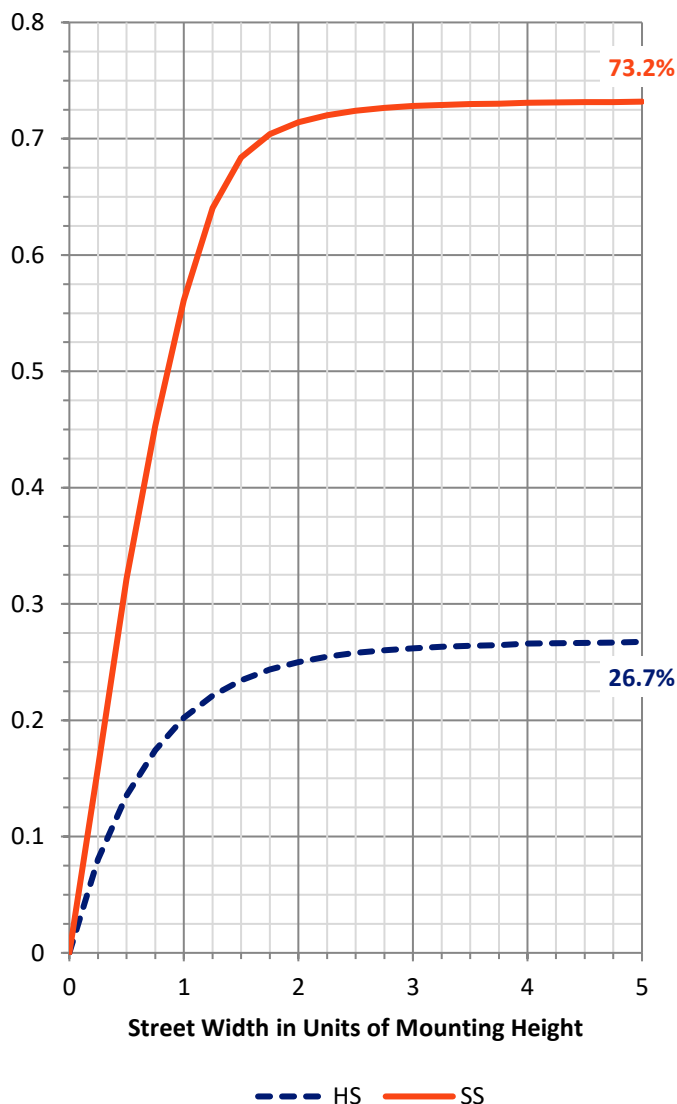
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6998.7	0.0	6998.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	19031.3	0.0	19031.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	26030.0	0.0	26030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.9	1.9
10°-20°	1551.5	6.0
20°-30°	2713.5	10.4
30°-40°	4248.5	16.3
40°-50°	6180.3	23.7
50°-60°	6792.6	26.1
60°-70°	3031.9	11.6
70°-80°	875.7	3.4
80°-90°	142.0	0.5
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°	26030.0	100.0
0°-180°	26030.0	100.0

Coefficient of Utilization



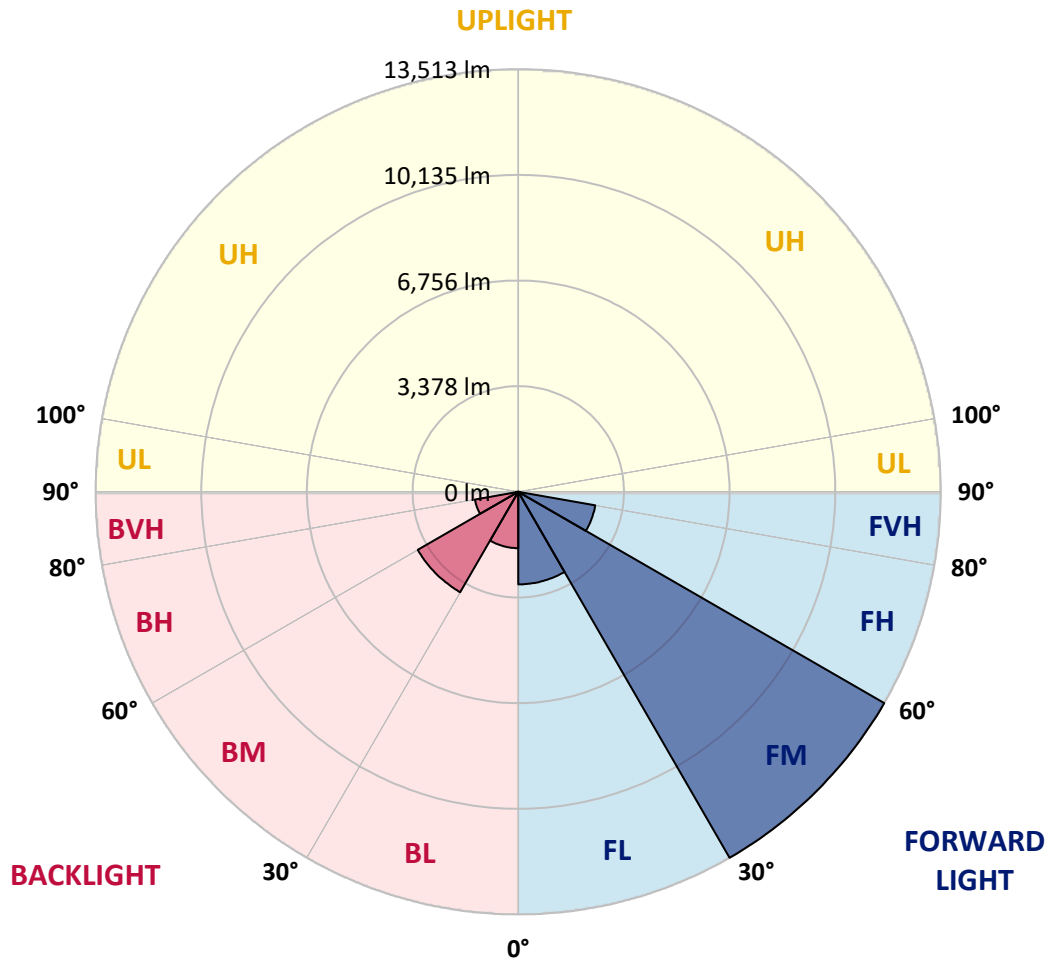
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.0	11.4			
FM (30°-60°)	13512.7	51.9			
FH (60°-80°)	2499.5	9.6			G2/5000
FVH (80°-90°)	61.1	0.2			G1/100
BL (0°-30°)	1800.9	6.9	B3/2500		
BM (30°-60°)	3708.7	14.2	B3/5000		
BH (60°-80°)	1408.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	80.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5
2.5°	5486.6	5398.9	5392.2	5368.6	5382.0	5321.3	5257.2	5172.9	5085.1	5139.1	5010.9
5°	5871.3	5753.2	5800.5	5719.5	5729.6	5648.6	5517.0	5419.1	5311.2	5247.1	5156.0
7.5°	6006.3	6016.4	6050.2	6036.7	5969.2	5969.2	5881.4	5709.4	5520.4	5483.3	5331.4
10°	6188.5	6191.9	6154.8	6164.9	6259.4	6215.5	6137.9	6063.7	5820.7	5776.9	5506.9
12.5°	6252.6	6191.9	6252.6	6306.6	6418.0	6478.7	6461.9	6407.8	6148.0	6117.7	5722.9
15°	6262.7	6225.6	6276.3	6397.7	6495.6	6752.0	6880.3	6843.2	6499.0	6502.3	5965.8
17.5°	6215.5	6266.1	6286.4	6391.0	6617.1	6856.7	7227.8	7278.5	6995.0	6951.2	6272.8
20°	6279.7	6242.5	6269.5	6364.0	6664.3	7038.9	7524.8	7858.8	7460.7	7430.3	6590.0
22.5°	6526.0	6475.3	6468.6	6529.4	6745.3	7133.4	7838.6	8439.2	8027.6	8044.4	6984.9
25°	6718.3	6745.3	6721.7	6718.3	6853.3	7275.1	8253.6	9131.0	8796.8	8699.1	7450.6
27.5°	7049.0	7113.1	7065.9	7130.0	7099.6	7487.7	8550.6	9896.9	9627.0	9495.4	7872.3
30°	7507.9	7541.6	7497.8	7497.8	7406.6	7784.6	8820.5	10696.6	10585.3	10406.5	8368.3
32.5°	8111.9	8162.5	8074.8	8024.2	8010.6	8226.6	9306.4	11486.2	11675.2	11523.3	9026.3
35°	8911.6	8881.3	8776.6	8729.4	8547.1	8904.9	10028.5	12394.0	12890.0	12620.0	9822.7
37.5°	9616.9	9569.6	9562.9	9299.7	9343.5	9637.1	10642.6	13082.3	14067.6	13990.0	10662.9
40°	10274.8	10318.7	10389.5	10241.1	10173.6	10497.5	11358.0	13608.7	14982.1	14951.7	11310.7
42.5°	10980.1	10939.6	11064.4	10939.6	10838.4	11297.3	12134.1	13973.1	15785.1	15535.4	11989.0
45°	12002.5	11874.3	11918.1	11928.3	11854.1	12022.7	12454.6	14236.3	16348.6	16321.6	12485.0
47.5°	12856.2	12859.6	12785.4	12728.0	12501.9	12670.6	12812.3	14401.6	16996.5	16952.7	12677.4
50°	13173.4	13129.5	13345.5	13470.3	13483.8	13139.7	13092.4	14492.8	17337.3	17145.0	12869.7
52.5°	12032.9	12073.4	12414.2	13156.5	13585.0	13622.2	13419.8	14681.7	17475.7	17435.2	13024.9
55°	9684.3	9880.1	10440.2	11297.3	12312.9	13429.9	13774.1	14877.5	17549.9	17516.2	13713.3
56°	8513.5	8665.3	9394.1	10065.6	11341.1	12731.3	13551.3	15086.6	17607.2	17765.9	13875.2
57.5°	6853.3	7028.8	7551.7	8314.4	9819.3	11401.9	12937.2	14830.2	17384.6	17445.3	13993.4
60°	4285.4	4302.3	4929.9	5432.7	6492.2	8037.7	9873.3	12903.4	16088.8	16001.1	12569.4
62.5°	2810.8	2814.2	3384.4	3796.1	4278.6	4632.9	5810.6	8557.3	11870.9	11715.7	8948.8
65°	1974.0	2017.9	2459.9	3009.9	3205.6	3020.0	2982.9	4511.5	6630.6	6407.8	4808.4
67.5°	1444.2	1447.6	1839.0	2429.5	2712.9	2297.9	1866.0	2203.4	2625.2	2618.5	2227.1
70°	954.9	995.4	1295.7	1815.4	2139.3	1845.8	1525.2	1575.8	1670.3	1670.3	1656.8
72.5°	556.8	593.9	792.9	1150.6	1201.3	1154.0	1208.0	1349.7	1410.5	1407.1	1390.2
75°	317.2	334.0	378.0	479.1	597.3	705.2	887.5	1022.4	1083.1	1120.3	1076.4
77.5°	185.6	195.8	222.7	273.3	310.5	381.3	482.6	577.0	658.0	647.9	654.6
80°	97.9	97.9	124.9	162.0	216.0	270.0	320.6	374.6	418.4	428.5	438.6
82.5°	57.4	60.8	81.0	118.1	155.2	192.3	246.3	283.4	323.9	327.3	334.0
85°	30.4	33.7	50.6	77.6	104.6	118.1	121.4	114.7	124.9	118.1	135.0
87.5°	10.1	10.1	16.8	13.5	13.5	16.8	20.3	20.3	27.0	27.0	27.0
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°	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5	4980.5
2.5°	5007.5	5007.5	4950.1	4842.2	4825.3	4781.5	4740.9	4737.5	4707.2	4680.2	4666.7
5°	5102.0	4997.4	4913.0	4815.1	4700.4	4646.5	4585.7	4518.2	4491.2	4518.2	4514.9
7.5°	5210.0	5122.2	4869.2	4687.0	4555.3	4501.4	4433.9	4363.0	4369.8	4369.8	4322.6
10°	5314.6	5196.5	4791.6	4558.7	4366.4	4325.9	4288.8	4315.7	4349.5	4356.3	4325.9
12.5°	5490.0	5223.5	4754.5	4430.5	4309.0	4221.3	4244.9	4319.2	4390.0	4369.8	4393.4
15°	5621.6	5247.1	4585.7	4298.9	4147.1	4187.6	4271.9	4322.6	4440.6	4427.2	4450.7
17.5°	5749.9	5260.6	4420.3	4123.4	4059.3	4170.6	4234.8	4379.9	4417.0	4498.0	4528.3
20°	6013.0	5287.6	4251.7	4015.5	3995.2	4123.4	4234.8	4302.3	4383.2	4454.1	4454.1
22.5°	6148.0	5274.1	4140.3	3873.7	3937.9	4018.8	4120.1	4234.8	4234.8	4302.3	4305.6
25°	6316.8	5220.1	3964.9	3806.2	3853.5	3931.1	4045.8	4005.4	4049.2	4049.2	4103.2
27.5°	6509.1	5105.4	3813.0	3684.8	3779.2	3863.6	3880.5	3853.5	3802.9	3796.1	3775.9
30°	6664.3	4963.7	3701.6	3644.3	3721.9	3769.1	3715.2	3657.8	3570.0	3563.3	3516.1
32.5°	6876.9	4788.2	3563.3	3543.1	3630.8	3634.1	3617.3	3529.5	3401.4	3347.3	3293.4
35°	7234.6	4687.0	3458.7	3489.0	3516.1	3506.0	3475.6	3381.1	3252.9	3229.2	3209.0
37.5°	7497.8	4612.7	3350.7	3387.8	3411.5	3424.9	3333.9	3229.2	3232.6	3185.4	3171.9
40°	7794.7	4565.4	3263.0	3279.8	3283.2	3327.1	3215.7	3165.1	3188.8	3158.4	3178.6
42.5°	8176.0	4579.0	3171.9	3158.4	3222.5	3205.6	3151.7	3084.2	3097.6	3006.6	3020.0
45°	8378.5	4670.0	3117.9	3057.1	3128.0	3124.6	3053.8	2989.7	2908.7	2733.2	2740.0
47.5°	8513.5	4693.7	2989.7	2949.2	3023.4	3067.2	2986.3	2837.8	2723.1	2598.2	2567.8
50°	8651.8	4737.5	2928.9	2844.6	2874.9	2979.5	2878.3	2736.6	2625.2	2513.9	2530.7
52.5°	8773.3	4821.9	2810.8	2686.0	2740.0	2854.7	2800.7	2628.6	2507.2	2416.0	2389.0
55°	9313.2	5010.9	2611.7	2449.8	2578.0	2723.1	2692.7	2483.5	2351.9	2304.7	2297.9
56°	9397.5	5017.6	2507.2	2368.8	2486.9	2679.2	2642.1	2419.4	2301.3	2227.1	2230.5
57.5°	9411.0	4936.7	2358.6	2294.6	2395.7	2615.1	2567.8	2368.8	2206.8	2139.3	2119.1
60°	8280.6	3853.5	2173.1	2132.6	2250.7	2419.4	2402.6	2230.5	2048.2	1970.6	2007.7
62.5°	5645.3	2824.3	2028.0	2021.2	2082.0	2247.3	2203.4	2048.2	1896.3	1845.8	1822.1
65°	3286.6	2142.7	1886.2	1859.2	1909.9	1997.6	2028.0	1866.0	1707.4	1673.7	1663.6
67.5°	1940.3	1771.5	1704.0	1660.2	1643.3	1697.3	1720.9	1626.4	1467.8	1420.6	1461.1
70°	1623.1	1575.8	1579.2	1504.9	1464.4	1427.3	1407.1	1322.7	1191.2	1130.4	1113.5
72.5°	1400.3	1380.1	1366.6	1299.2	1262.0	1177.6	1089.9	1005.5	907.7	857.1	860.4
75°	1069.7	1062.9	1069.7	1035.9	971.8	904.3	823.3	715.3	641.1	577.0	590.5
77.5°	637.8	658.0	668.1	654.6	627.7	566.9	516.3	445.4	374.6	323.9	317.2
80°	438.6	455.5	472.4	455.5	428.5	384.7	330.7	276.7	226.1	199.1	192.3
82.5°	334.0	350.9	361.0	344.2	310.5	263.2	226.1	188.9	148.5	121.4	114.7
85°	121.4	138.4	135.0	162.0	175.5	168.7	145.1	111.3	84.3	60.8	57.4
87.5°	33.7	30.4	33.7	33.7	33.7	30.4	27.0	27.0	27.0	16.8	13.5
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)