

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: P531960

Luminaire Tested: **GALN-SA7B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32444 lumens
Efficiency: N/A
Efficacy: 113.4 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

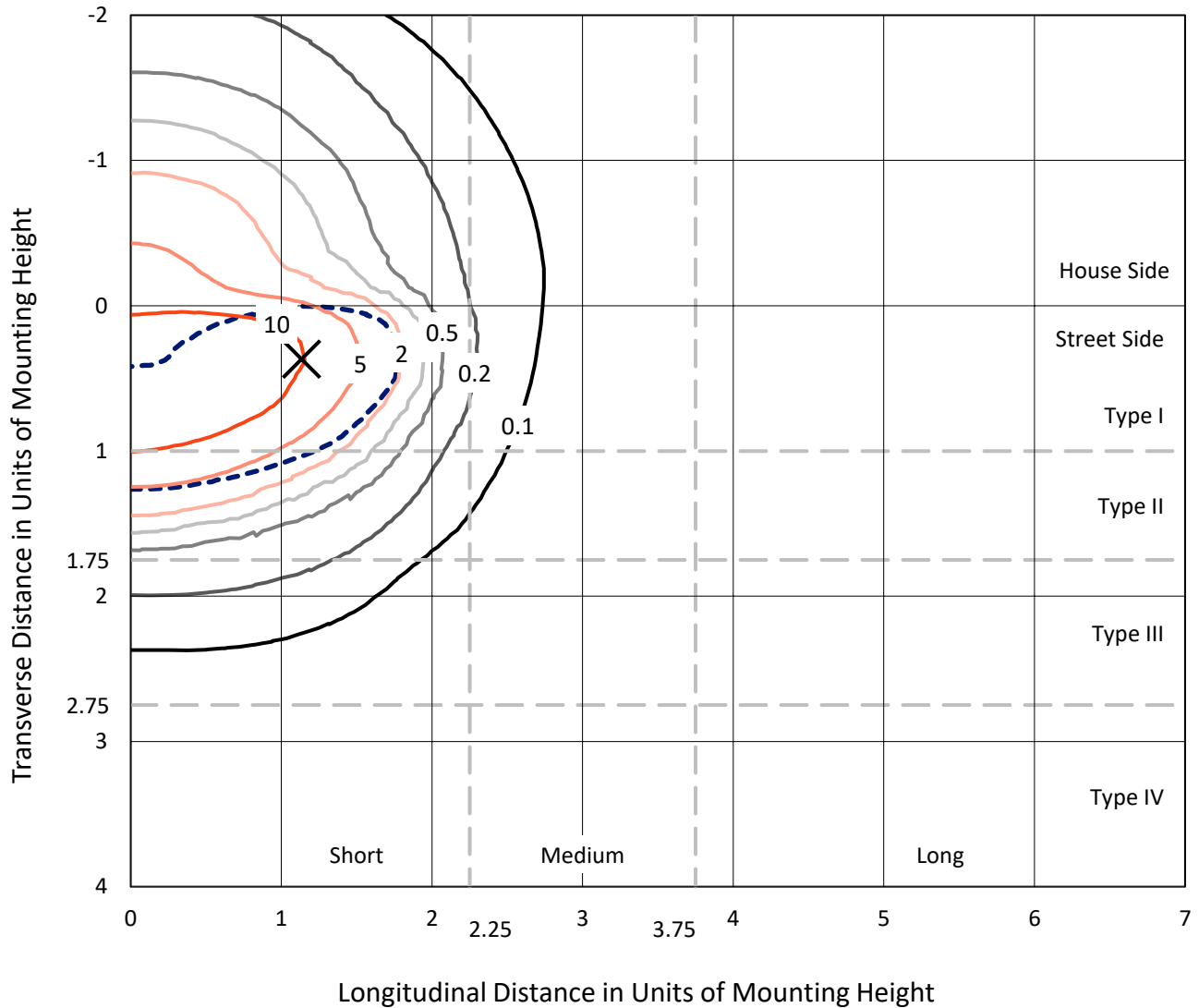
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

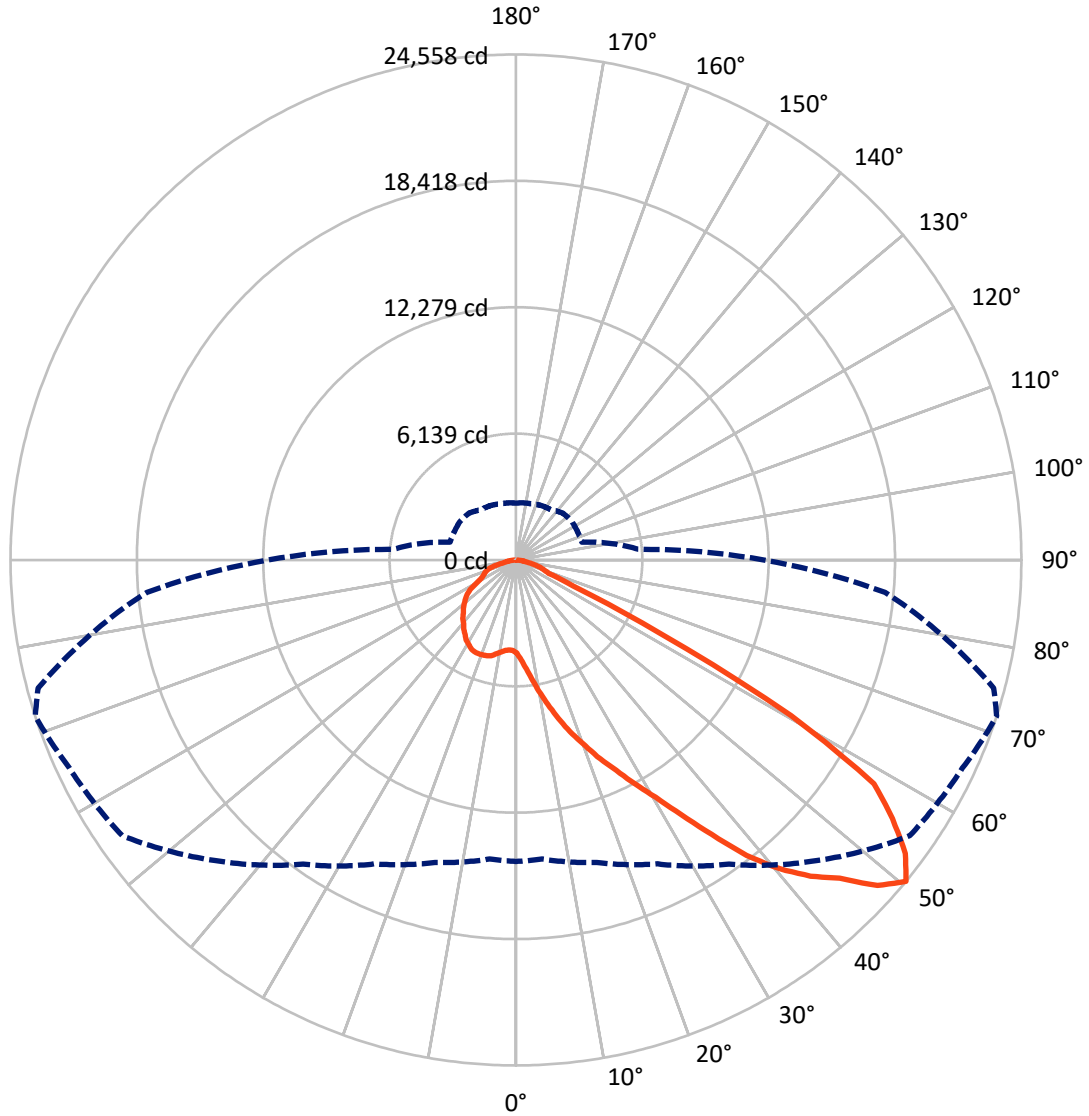
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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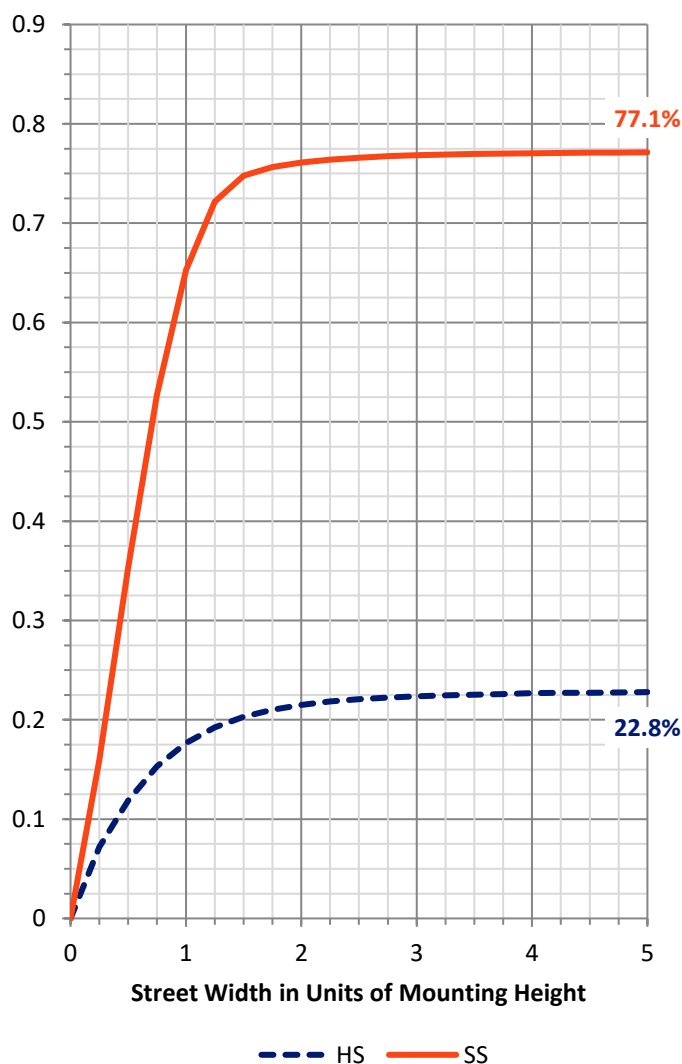
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7433.1	0.0	7433.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25010.9	0.0	25010.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	32444.0	0.0	32444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.2	1.6
10°-20°	1986.0	6.1
20°-30°	3850.7	11.9
30°-40°	6379.3	19.7
40°-50°	8926.0	27.5
50°-60°	7530.3	23.2
60°-70°	2295.2	7.1
70°-80°	805.2	2.5
80°-90°	140.0	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°	32444.0	100.0
0°-180°	32444.0	100.0

Coefficient of Utilization



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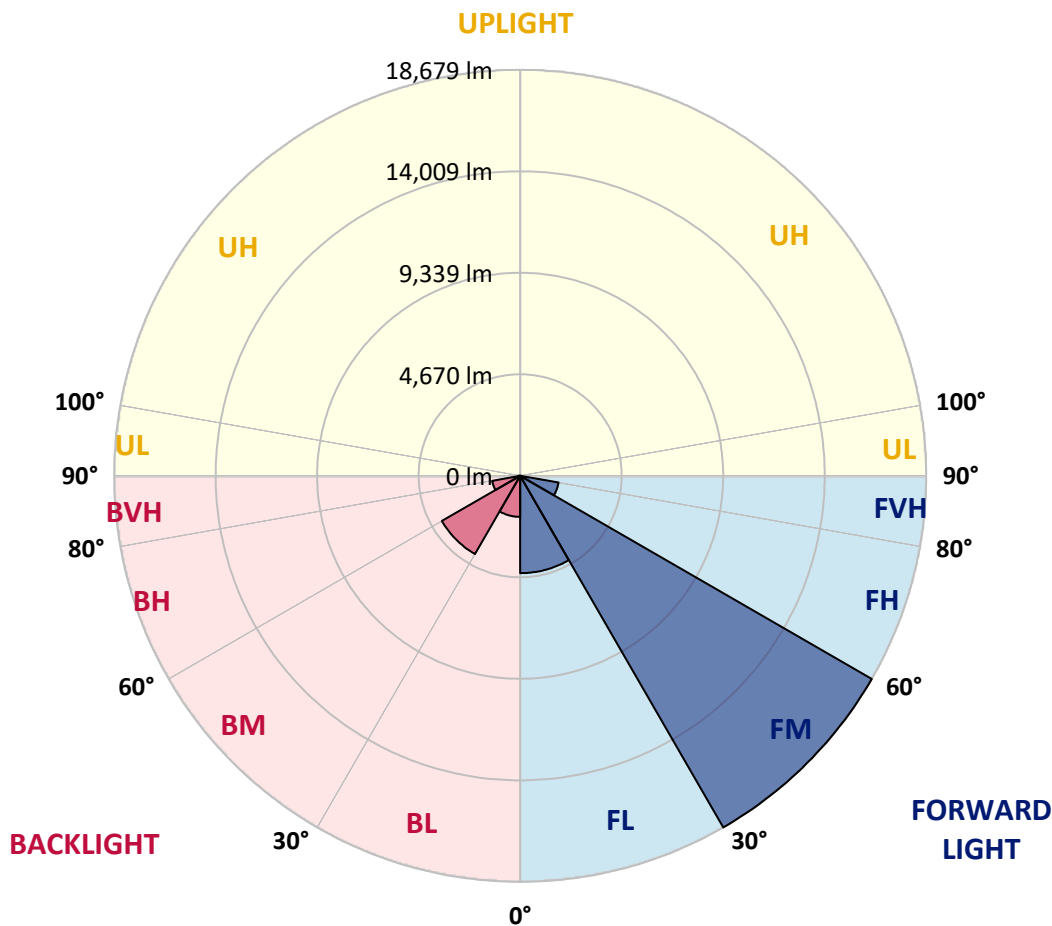
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4478.4	13.8			
FM (30°-60°)	18678.9	57.6			
FH (60°-80°)	1790.9	5.5			G1/1800
FVH (80°-90°)	62.7	0.2			G1/100
BL (0°-30°)	1889.5	5.8	B3/2500		
BM (30°-60°)	4156.7	12.8	B3/5000		
BH (60°-80°)	1309.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	77.3	0.2			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°	72°	75°	85°
0°	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5
2.5°	5809.2	5773.1	5664.7	5628.5	5500.1	5267.2	5186.9	4950.1	4849.7	4757.4	4649.0
5°	7346.8	7178.2	7166.2	6961.4	6664.3	6491.7	5977.8	5632.6	5315.4	5154.8	4857.7
7.5°	8326.4	8330.4	8330.4	8161.8	7924.9	7487.3	7025.6	6403.4	5925.6	5688.8	5182.9
10°	9257.8	9177.5	9133.3	9117.3	8956.7	8531.1	8037.3	7266.5	6612.1	6335.1	5427.8
12.5°	9916.2	9847.9	9948.3	9896.1	9779.7	9502.7	9037.0	8157.8	7338.8	6965.4	5821.2
15°	10229.3	10277.5	10357.8	10502.3	10450.1	10345.8	9831.9	9073.1	8121.6	7700.1	6170.5
17.5°	10711.1	10578.6	10675.0	10855.6	11000.1	10952.0	10658.9	9735.5	8896.5	8378.6	6640.2
20°	11048.3	10972.0	11020.2	11229.0	11337.4	11610.4	11457.8	10602.7	9639.2	9093.2	7194.3
22.5°	12011.8	11899.4	11742.9	11775.0	11815.1	12007.8	12044.0	11554.2	10502.3	9924.2	7720.2
25°	13200.2	13095.8	12911.1	12722.4	12606.0	12569.9	12694.3	12300.9	11329.3	10731.2	8286.2
27.5°	14508.9	14332.3	14215.9	13826.5	13513.3	13465.1	13404.9	13192.1	12308.9	11662.6	8924.6
30°	15781.6	15641.1	15484.5	14862.2	14537.0	14484.9	14187.8	14248.0	13372.8	12654.2	9647.2
32.5°	16745.1	16757.1	16399.8	15930.1	15625.0	15348.0	15239.6	15412.2	14737.8	14159.7	10454.1
35°	17523.9	17560.1	17218.8	16793.3	16464.1	16656.8	16608.6	16688.9	16367.7	15661.2	11393.6
37.5°	18282.7	18102.1	17736.7	17532.0	17359.3	17676.5	18086.0	18154.2	18214.5	17383.4	12485.6
40°	18407.2	18423.2	18210.5	18355.0	18138.2	18615.9	19567.4	19479.1	19724.0	18997.3	13669.9
42.5°	18230.5	18266.7	18351.0	18555.7	19077.6	19651.7	21064.9	20703.6	21000.6	20354.3	14822.1
45°	17941.5	17792.9	17897.3	18676.2	19579.4	20856.1	22433.9	22152.8	22056.5	21514.5	16195.1
47.5°	16560.4	16713.0	17038.2	17997.7	19354.6	21064.9	23405.4	23341.2	23630.2	23248.8	17443.7
50°	14645.4	14585.2	15211.5	16291.5	18041.8	20655.4	23353.2	23935.3	24557.6	24027.7	18001.7
52.5°	10968.0	11289.2	11827.2	13168.1	15665.2	18423.2	22213.1	23184.6	23690.5	23578.0	17552.1
55°	6933.3	7029.7	7354.8	8948.7	11196.9	14786.0	19041.5	21293.7	22197.0	22618.5	17138.5
57.5°	3368.3	3187.6	3585.1	4865.8	6467.6	9944.3	14685.6	18547.7	20510.8	21273.6	16239.3
60°	1758.4	1826.7	1983.2	2440.9	3344.2	5162.8	9153.4	12361.1	15360.1	16532.3	12308.9
62.5°	1457.3	1481.4	1585.8	1814.6	2224.1	2970.8	4673.1	6026.0	7832.6	8888.4	7001.5
65°	1236.5	1248.6	1361.0	1513.5	1774.5	2091.6	2404.8	2517.2	3047.1	3127.4	2489.1
67.5°	1031.8	1043.8	1164.2	1308.8	1477.4	1561.7	1642.0	1634.0	1694.2	1670.1	1666.1
70°	794.9	806.9	931.4	1084.0	1168.3	1120.1	1369.0	1425.2	1449.3	1469.4	1501.5
72.5°	574.1	598.2	694.5	802.9	758.8	871.2	1128.1	1212.4	1244.5	1256.6	1296.7
75°	417.5	425.6	449.6	417.5	481.8	606.2	794.9	899.3	939.4	951.5	1011.7
77.5°	184.7	188.7	192.7	240.9	309.1	377.4	473.7	558.0	614.2	630.3	646.4
80°	96.4	100.4	124.5	164.6	220.8	277.0	345.3	393.4	429.6	433.6	449.6
82.5°	60.2	64.2	88.3	116.4	156.6	204.7	252.9	293.1	321.2	325.2	329.2
85°	28.1	36.1	52.2	72.3	104.4	132.5	136.5	116.4	124.5	128.5	120.4
87.5°	8.0	12.0	16.1	12.0	16.1	16.1	20.1	24.1	24.1	24.1	28.1
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°	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5	4516.5
2.5°	4588.7	4552.6	4412.1	4359.9	4223.4	4247.5	4175.2	4171.2	4155.2	4151.1	4147.1
5°	4701.2	4588.7	4420.1	4291.7	4215.4	4207.4	4155.2	4155.2	4171.2	4183.3	4155.2
7.5°	4885.8	4757.4	4472.3	4351.9	4283.6	4271.6	4235.5	4207.4	4243.5	4231.4	4199.3
10°	5098.6	4873.8	4572.7	4468.3	4355.9	4327.8	4327.8	4339.8	4279.6	4299.7	4267.6
12.5°	5335.5	5034.4	4701.2	4580.7	4448.2	4432.2	4424.1	4335.8	4367.9	4351.9	4271.6
15°	5636.6	5219.0	4865.8	4661.0	4548.6	4476.3	4372.0	4355.9	4335.8	4295.7	4259.5
17.5°	5961.8	5419.8	4942.0	4685.1	4516.5	4464.3	4384.0	4299.7	4239.5	4247.5	4219.4
20°	6238.8	5604.5	4970.1	4709.2	4492.4	4392.0	4267.6	4215.4	4151.1	4147.1	4143.1
22.5°	6568.0	5853.4	5010.3	4645.0	4420.1	4315.7	4231.4	4139.1	4094.9	4038.7	4066.8
25°	6961.4	5949.7	5018.3	4608.8	4367.9	4183.3	4139.1	4038.7	4022.7	3942.4	3958.4
27.5°	7246.4	6001.9	4954.1	4496.4	4247.5	4107.0	4026.7	3954.4	3926.3	3866.1	3850.0
30°	7627.8	6082.2	4817.6	4355.9	4127.1	3970.5	3922.3	3906.3	3826.0	3761.7	3753.7
32.5°	8061.4	6134.4	4729.3	4211.4	4002.6	3882.2	3906.3	3830.0	3729.6	3673.4	3657.3
35°	8406.7	6154.5	4508.5	4046.8	3918.3	3842.0	3813.9	3797.9	3653.3	3601.1	3561.0
37.5°	8932.6	6110.3	4323.8	3930.3	3826.0	3797.9	3773.8	3665.4	3500.8	3424.5	3368.3
40°	9546.8	6098.3	4086.9	3765.7	3737.6	3769.8	3697.5	3528.9	3300.0	3215.7	3175.6
42.5°	10137.0	6182.6	3938.4	3677.4	3641.3	3653.3	3553.0	3300.0	3187.6	3139.5	3075.2
45°	11124.6	6359.2	3693.5	3540.9	3524.9	3516.8	3396.4	3131.4	3067.2	3007.0	2994.9
47.5°	12015.8	6242.8	3536.9	3400.4	3416.5	3372.3	3115.4	3031.1	2958.8	2898.6	2878.5
50°	12068.0	5965.8	3316.1	3292.0	3296.0	3219.7	2974.9	2918.7	2826.3	2786.2	2758.1
52.5°	11795.0	5512.1	3111.4	3119.4	3131.4	3007.0	2802.2	2762.1	2685.8	2629.6	2613.5
55°	11028.2	4805.5	2910.6	2942.7	2974.9	2738.0	2673.8	2573.4	2513.2	2432.9	2436.9
57.5°	9715.5	3870.1	2629.6	2681.8	2750.0	2489.1	2440.9	2316.5	2228.1	2163.9	2155.9
60°	6511.8	2754.1	2208.1	2228.1	2380.7	2276.3	2272.3	2147.8	2027.4	1971.2	1939.1
62.5°	3842.0	2103.7	1907.0	1886.9	1882.9	1943.1	2043.5	1999.3	1842.7	1734.3	1766.4
65°	2011.3	1818.6	1774.5	1706.2	1666.1	1650.0	1726.3	1746.4	1642.0	1525.6	1517.5
67.5°	1690.2	1690.2	1654.0	1629.9	1573.7	1505.5	1457.3	1393.1	1377.0	1344.9	1304.8
70°	1537.6	1577.8	1565.7	1509.5	1461.3	1385.1	1260.6	1156.2	1055.9	1019.7	1043.8
72.5°	1340.9	1381.0	1381.0	1352.9	1288.7	1172.3	1051.8	931.4	847.1	782.9	774.8
75°	1031.8	1051.8	1100.0	1067.9	983.6	911.3	786.9	662.4	582.1	521.9	509.9
77.5°	658.4	690.5	690.5	686.5	626.3	558.0	477.7	389.4	329.2	285.0	273.0
80°	437.6	457.7	473.7	457.7	417.5	365.3	305.1	244.9	200.7	164.6	156.6
82.5°	321.2	345.3	357.3	341.2	301.1	261.0	216.8	172.6	128.5	100.4	92.3
85°	124.5	128.5	144.5	172.6	168.6	164.6	132.5	96.4	72.3	52.2	48.2
87.5°	32.1	28.1	32.1	32.1	28.1	24.1	24.1	24.1	24.1	12.0	16.1
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)