

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: P532688

Luminaire Tested: **GALN-SA8A-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532688
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-SA8A-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 32450 lumens
Efficiency: N/A
Efficacy: 133.0 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

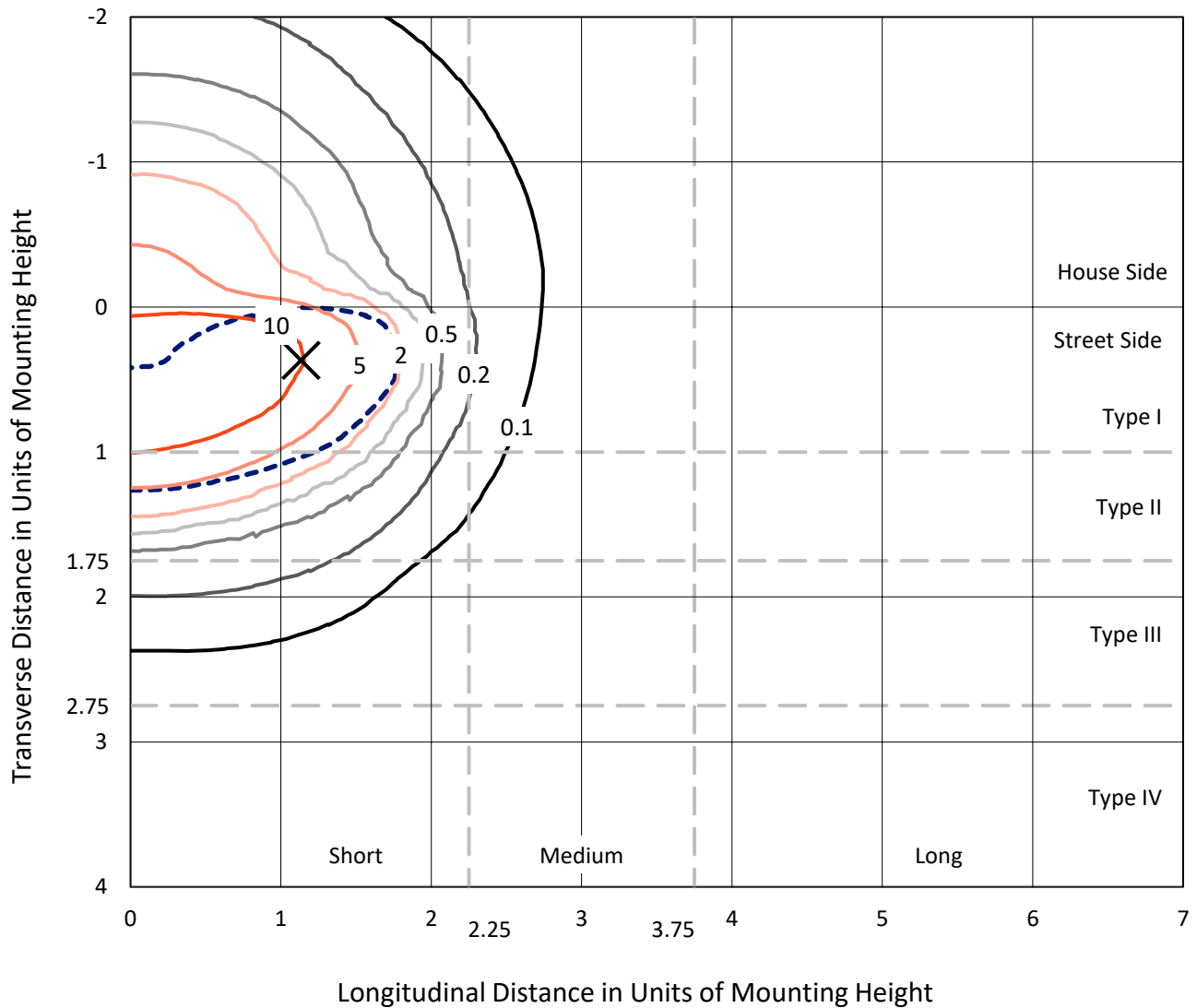
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

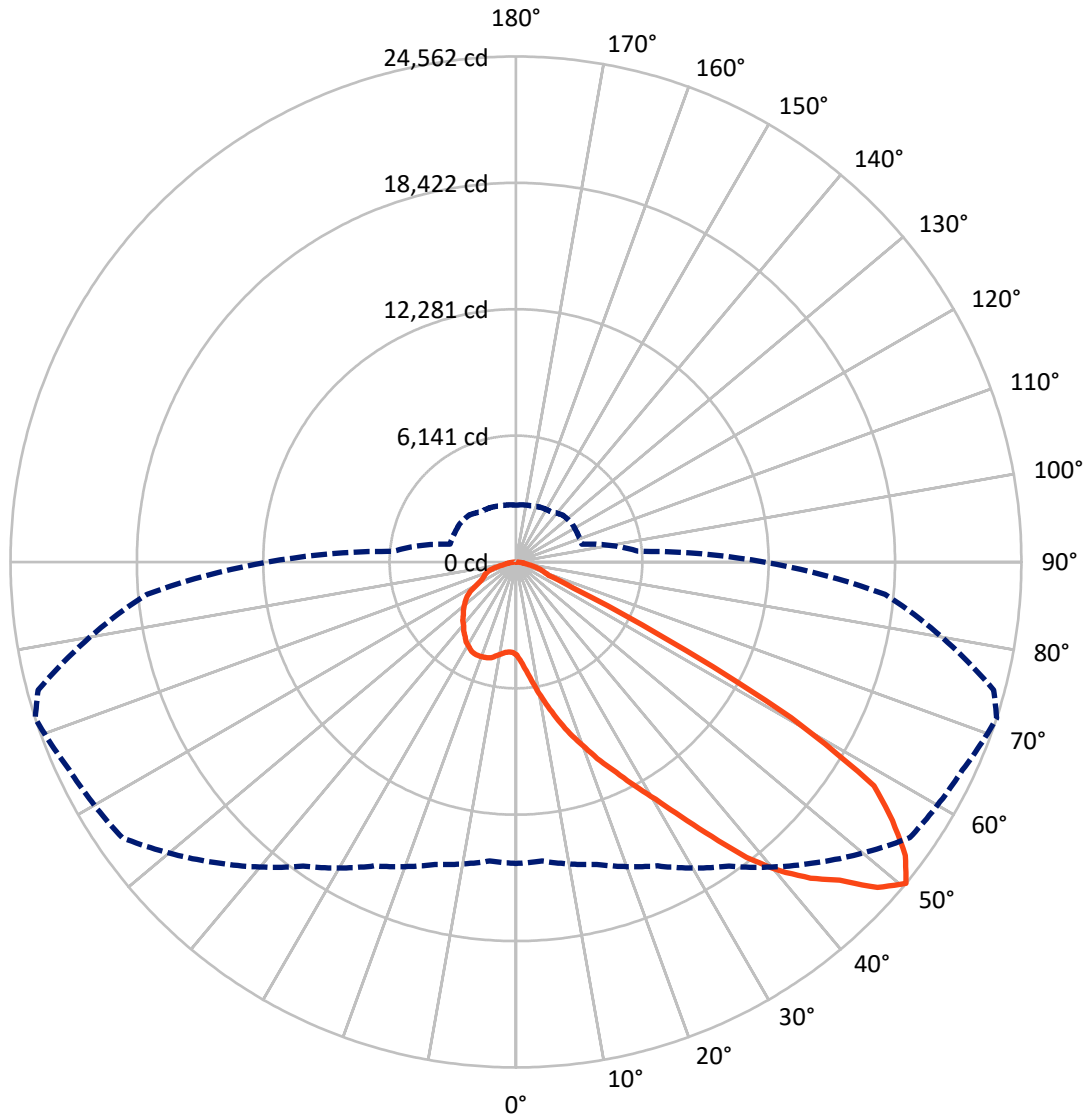
✕ Max cd
 - - - 1/2 Max cd



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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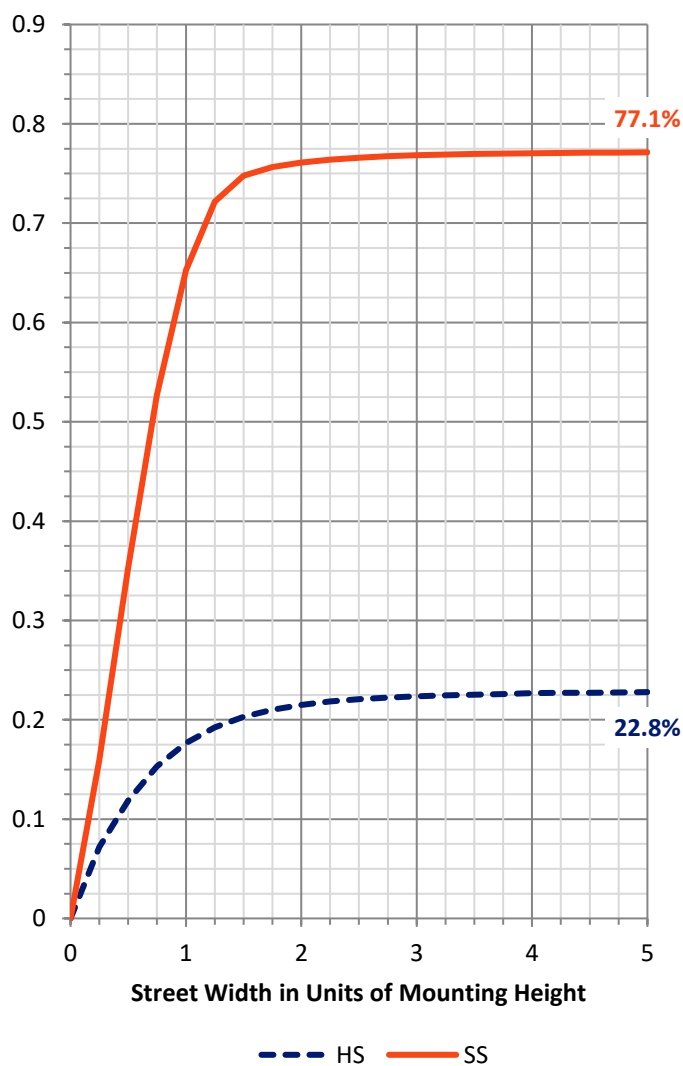
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7434.5	0.0	7434.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25015.5	0.0	25015.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	32450.0	0.0	32450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.3	1.6
10°-20°	1986.4	6.1
20°-30°	3851.4	11.9
30°-40°	6380.5	19.7
40°-50°	8927.7	27.5
50°-60°	7531.6	23.2
60°-70°	2295.6	7.1
70°-80°	805.4	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°	32450.0	100.0
0°-180°	32450.0	100.0

Coefficient of Utilization



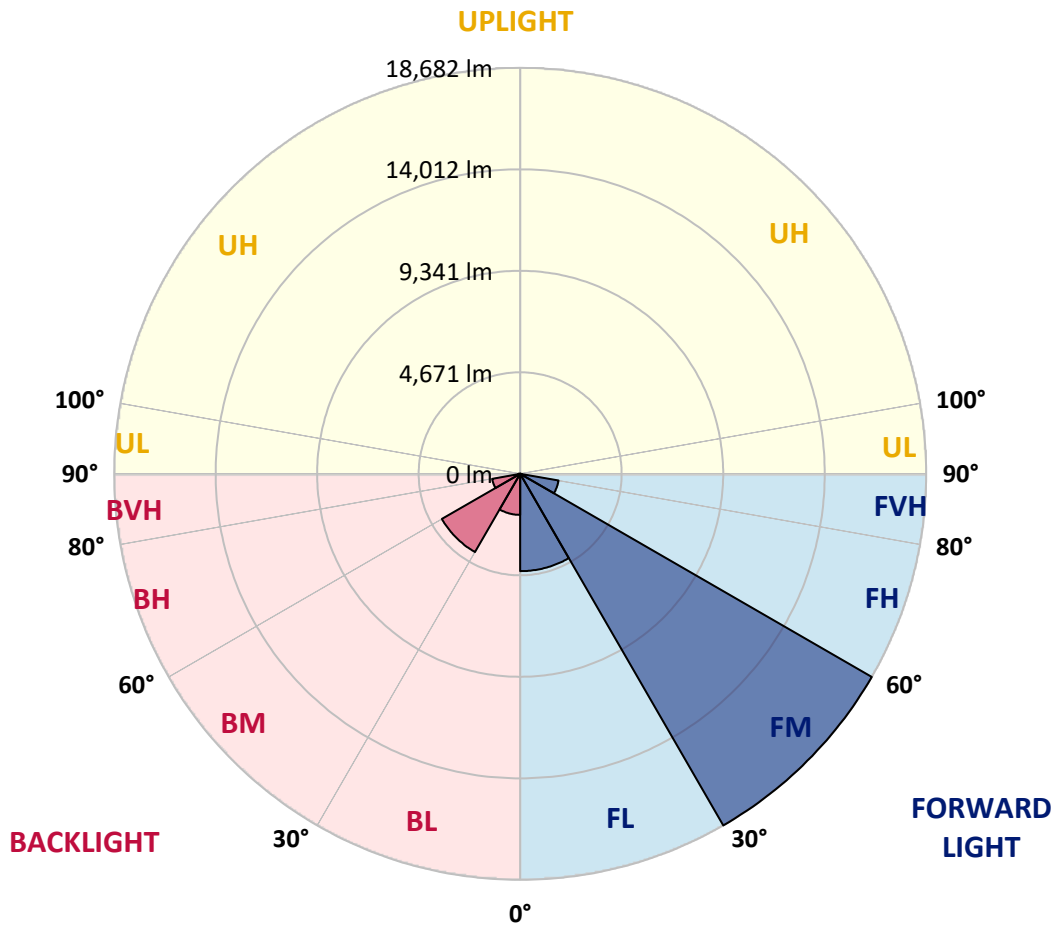
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4479.3	13.8			
FM (30°-60°)	18682.3	57.6			
FH (60°-80°)	1791.2	5.5			G1/1800
FVH (80°-90°)	62.7	0.2			G1/100
BL (0°-30°)	1889.9	5.8	B3/2500		
BM (30°-60°)	4157.5	12.8	B3/5000		
BH (60°-80°)	1309.8	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°	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3
2.5°	5810.3	5774.1	5665.7	5629.6	5501.1	5268.2	5187.9	4951.0	4850.6	4758.2	4649.8
5°	7348.2	7179.5	7167.5	6962.7	6665.6	6492.9	5978.9	5633.6	5316.4	5155.8	4858.6
7.5°	8327.9	8331.9	8331.9	8163.3	7926.4	7488.7	7026.9	6404.6	5926.7	5689.8	5183.9
10°	9259.5	9179.2	9135.0	9119.0	8958.3	8532.7	8038.8	7267.9	6613.4	6336.3	5428.8
12.5°	9918.0	9849.8	9950.1	9897.9	9781.5	9504.4	9038.6	8159.3	7340.1	6966.7	5822.3
15°	10231.2	10279.4	10359.7	10504.3	10452.1	10347.7	9833.7	9074.8	8123.1	7701.5	6171.7
17.5°	10713.1	10580.6	10676.9	10857.6	11002.2	10954.0	10660.9	9737.3	8898.1	8380.1	6641.5
20°	11050.4	10974.1	11022.3	11231.1	11339.5	11612.5	11459.9	10604.7	9641.0	9094.9	7195.6
22.5°	12014.1	11901.6	11745.0	11777.1	11817.3	12010.0	12046.2	11556.3	10504.3	9926.1	7721.6
25°	13202.6	13098.2	12913.5	12724.8	12608.3	12572.2	12696.7	12303.2	11331.4	10733.1	8287.8
27.5°	14511.6	14335.0	14218.5	13829.0	13515.8	13467.6	13407.4	13194.6	12311.2	11664.7	8926.2
30°	15784.5	15644.0	15487.4	14865.0	14539.7	14487.5	14190.4	14250.6	13375.3	12656.5	9649.0
32.5°	16748.2	16760.2	16402.9	15933.1	15627.9	15350.8	15242.4	15415.1	14740.5	14162.3	10456.1
35°	17527.2	17563.3	17222.0	16796.4	16467.1	16659.9	16611.7	16692.0	16370.8	15664.0	11395.7
37.5°	18286.1	18105.4	17740.0	17535.2	17362.6	17679.8	18089.3	18157.6	18217.8	17386.7	12487.9
40°	18410.6	18426.6	18213.8	18358.4	18141.5	18619.4	19571.0	19482.7	19727.6	19000.8	13672.4
42.5°	18233.9	18270.0	18354.4	18559.1	19081.1	19655.3	21068.8	20707.4	21004.5	20358.0	14824.8
45°	17944.8	17796.2	17900.6	18679.6	19583.1	20860.0	22438.0	22156.9	22060.6	21518.5	16198.1
47.5°	16563.5	16716.1	17041.3	18001.0	19358.2	21068.8	23409.7	23345.5	23634.6	23253.1	17446.9
50°	14648.2	14587.9	15214.3	16294.5	18045.2	20659.2	23357.5	23939.8	24562.2	24032.1	18005.0
52.5°	10970.1	11291.3	11829.3	13170.5	15668.1	18426.6	22217.2	23188.9	23694.8	23582.4	17555.3
55°	6934.6	7031.0	7356.2	8950.3	11198.9	14788.7	19045.0	21297.6	22201.1	22622.7	17141.7
57.5°	3368.9	3188.2	3585.7	4866.7	6468.8	9946.1	14688.3	18551.1	20514.6	21277.6	16242.3
60°	1758.7	1827.0	1983.6	2441.4	3344.8	5163.8	9155.1	12363.4	15362.9	16535.4	12311.2
62.5°	1457.6	1481.7	1586.1	1815.0	2224.5	2971.4	4673.9	6027.1	7834.0	8890.1	7002.8
65°	1236.7	1248.8	1361.2	1513.8	1774.8	2092.0	2405.2	2517.7	3047.7	3128.0	2489.5
67.5°	1032.0	1044.0	1164.5	1309.0	1477.7	1562.0	1642.3	1634.3	1694.5	1670.4	1666.4
70°	795.0	807.1	931.6	1084.2	1168.5	1120.3	1369.2	1425.5	1449.6	1469.6	1501.8
72.5°	574.2	598.3	694.7	803.1	758.9	871.3	1128.3	1212.6	1244.8	1256.8	1297.0
75°	417.6	425.6	449.7	417.6	481.8	606.3	795.0	899.4	939.6	951.6	1011.9
77.5°	184.7	188.7	192.7	240.9	309.2	377.4	473.8	558.1	614.4	630.4	646.5
80°	96.4	100.4	124.5	164.6	220.8	277.1	345.3	393.5	429.6	433.7	449.7
82.5°	60.2	64.2	88.3	116.4	156.6	204.8	253.0	293.1	321.2	325.2	329.3
85°	28.1	36.1	52.2	72.3	104.4	132.5	136.5	116.4	124.5	128.5	120.5
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°	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3	4517.3
2.5°	4589.6	4553.5	4412.9	4360.7	4224.2	4248.3	4176.0	4172.0	4155.9	4151.9	4147.9
5°	4702.0	4589.6	4420.9	4292.5	4216.2	4208.1	4155.9	4155.9	4172.0	4184.0	4155.9
7.5°	4886.7	4758.2	4473.1	4352.7	4284.4	4272.4	4236.2	4208.1	4244.3	4232.2	4200.1
10°	5099.5	4874.7	4573.5	4469.1	4356.7	4328.6	4328.6	4340.6	4280.4	4300.5	4268.4
12.5°	5336.5	5035.3	4702.0	4581.6	4449.1	4433.0	4425.0	4336.6	4368.7	4352.7	4272.4
15°	5637.6	5220.0	4866.7	4661.9	4549.4	4477.2	4372.8	4356.7	4336.6	4296.5	4260.3
17.5°	5962.9	5420.8	4942.9	4686.0	4517.3	4465.1	4384.8	4300.5	4240.3	4248.3	4220.2
20°	6239.9	5605.5	4971.1	4710.1	4493.2	4392.8	4268.4	4216.2	4151.9	4147.9	4143.9
22.5°	6569.2	5854.4	5011.2	4645.8	4420.9	4316.5	4232.2	4139.9	4095.7	4039.5	4067.6
25°	6962.7	5950.8	5019.2	4609.7	4368.7	4184.0	4139.9	4039.5	4023.4	3943.1	3959.2
27.5°	7247.8	6003.0	4955.0	4497.2	4248.3	4107.7	4027.4	3955.2	3927.1	3866.8	3850.8
30°	7629.2	6083.3	4818.5	4356.7	4127.8	3971.2	3923.0	3907.0	3826.7	3762.4	3754.4
32.5°	8062.9	6135.5	4730.1	4212.1	4003.3	3882.9	3907.0	3830.7	3730.3	3674.1	3658.0
35°	8408.2	6155.6	4509.3	4047.5	3919.0	3842.7	3814.6	3798.6	3654.0	3601.8	3561.7
37.5°	8934.2	6111.4	4324.6	3931.1	3826.7	3798.6	3774.5	3666.1	3501.4	3425.1	3368.9
40°	9548.6	6099.4	4087.7	3766.4	3738.3	3770.5	3698.2	3529.5	3300.7	3216.3	3176.2
42.5°	10138.9	6183.7	3939.1	3678.1	3642.0	3654.0	3553.6	3300.7	3188.2	3140.0	3075.8
45°	11126.7	6360.4	3694.2	3541.6	3525.5	3517.5	3397.0	3132.0	3067.8	3007.5	2995.5
47.5°	12018.1	6243.9	3537.6	3401.0	3417.1	3372.9	3115.9	3031.6	2959.3	2899.1	2879.0
50°	12070.3	5966.9	3316.7	3292.6	3296.6	3220.3	2975.4	2919.2	2826.8	2786.7	2758.6
52.5°	11797.2	5513.1	3111.9	3120.0	3132.0	3007.5	2802.7	2762.6	2686.3	2630.1	2614.0
55°	11030.3	4806.4	2911.2	2943.3	2975.4	2738.5	2674.3	2573.9	2513.6	2433.3	2437.3
57.5°	9717.3	3870.8	2630.1	2682.3	2750.5	2489.5	2441.4	2316.9	2228.5	2164.3	2156.3
60°	6513.0	2754.6	2208.5	2228.5	2381.1	2276.7	2272.7	2148.2	2027.8	1971.6	1939.4
62.5°	3842.7	2104.1	1907.3	1887.2	1883.2	1943.5	2043.8	1999.7	1843.1	1734.6	1766.8
65°	2011.7	1819.0	1774.8	1706.5	1666.4	1650.3	1726.6	1746.7	1642.3	1525.8	1517.8
67.5°	1690.5	1690.5	1654.3	1630.2	1574.0	1505.8	1457.6	1393.3	1377.3	1345.2	1305.0
70°	1537.9	1578.0	1566.0	1509.8	1461.6	1385.3	1260.8	1156.4	1056.0	1019.9	1044.0
72.5°	1341.1	1381.3	1381.3	1353.2	1288.9	1172.5	1052.0	931.6	847.2	783.0	775.0
75°	1032.0	1052.0	1100.2	1068.1	983.8	911.5	787.0	662.5	582.2	522.0	510.0
77.5°	658.5	690.6	690.6	686.6	626.4	558.1	477.8	389.5	329.3	285.1	273.0
80°	437.7	457.8	473.8	457.8	417.6	365.4	305.2	244.9	200.8	164.6	156.6
82.5°	321.2	345.3	357.4	341.3	301.2	261.0	216.8	172.7	128.5	100.4	92.4
85°	124.5	128.5	144.6	172.7	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)