

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: P533668

Luminaire Tested: **GALN-SA9A-760-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-760-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35073 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

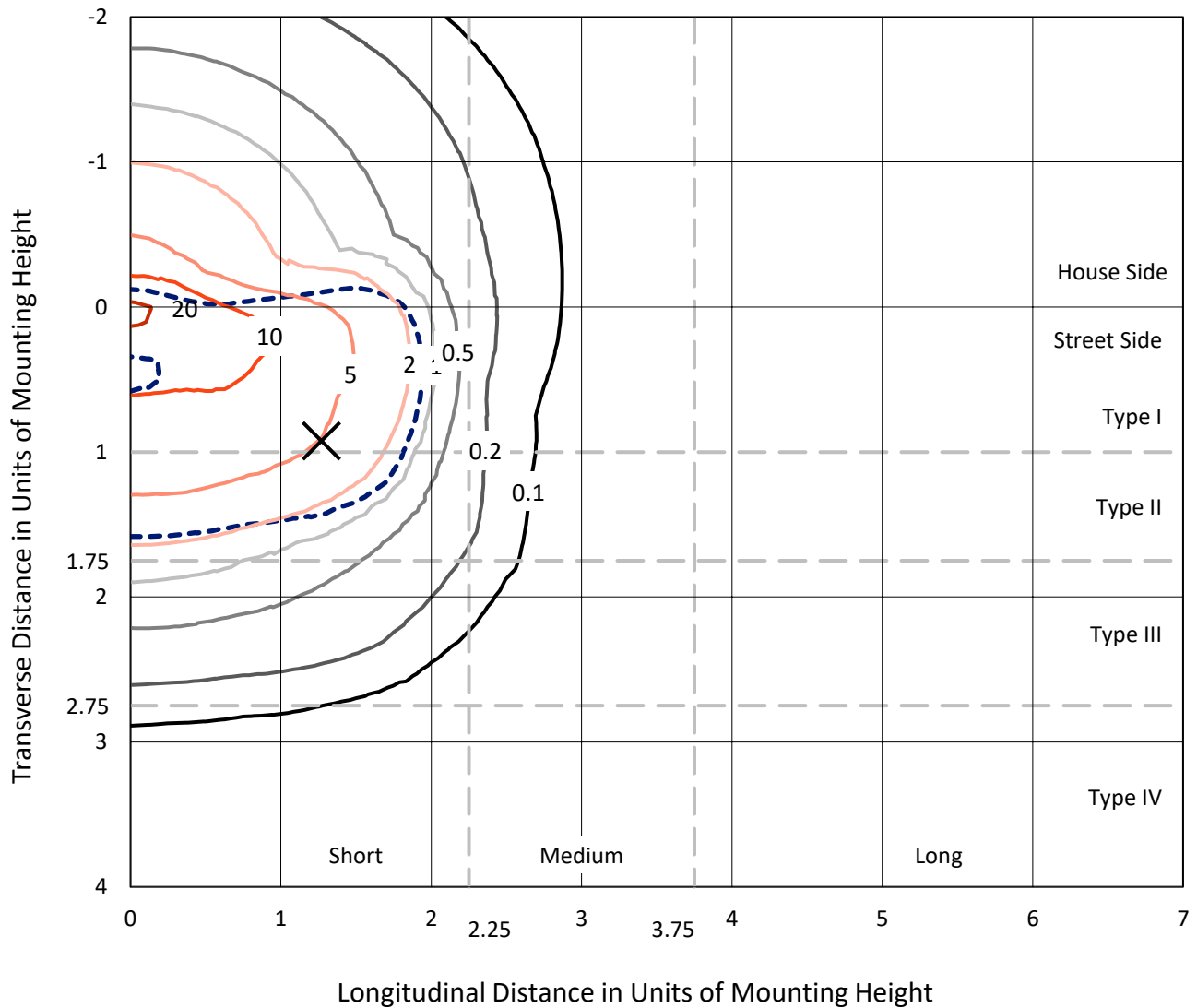
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

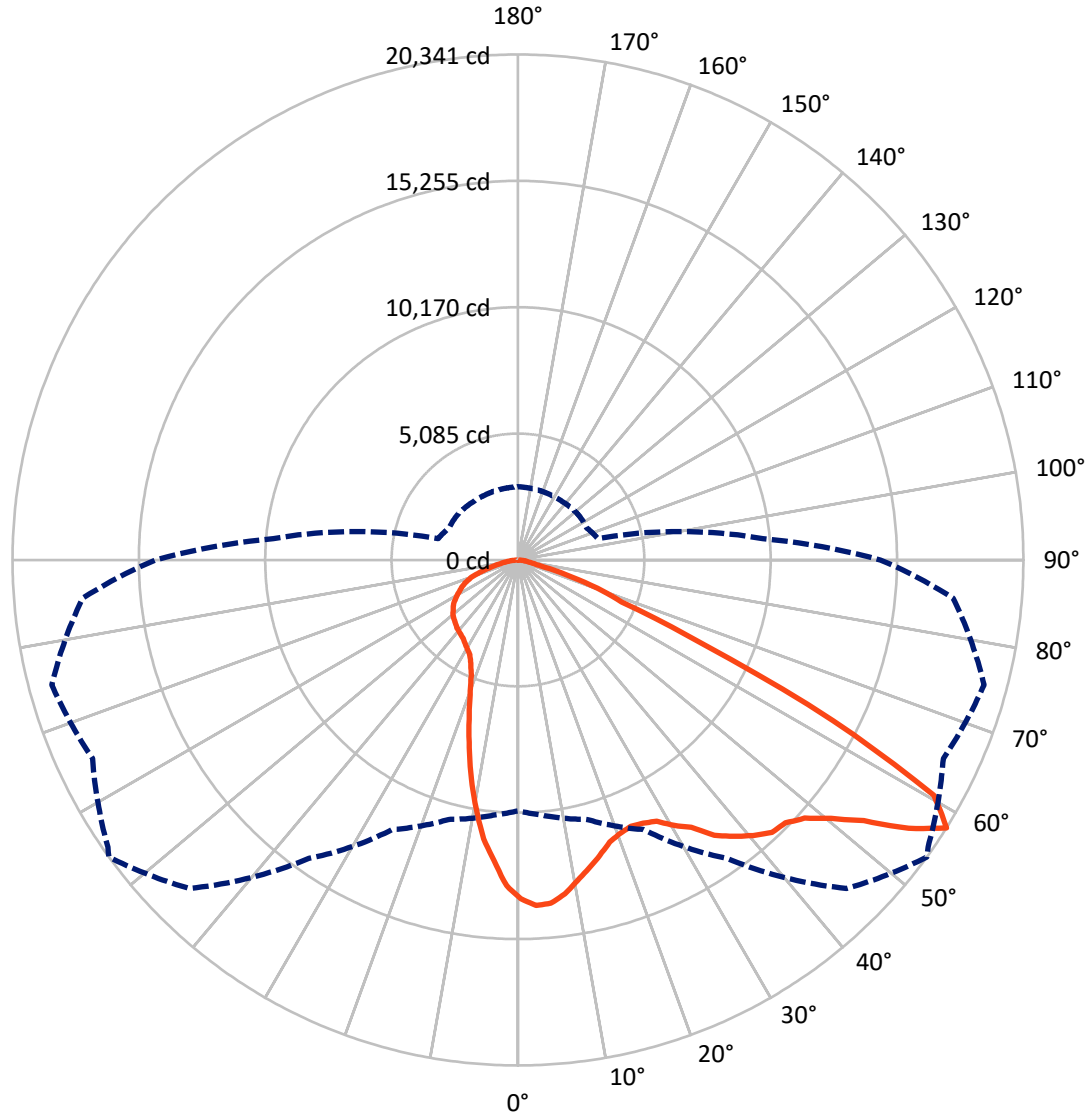
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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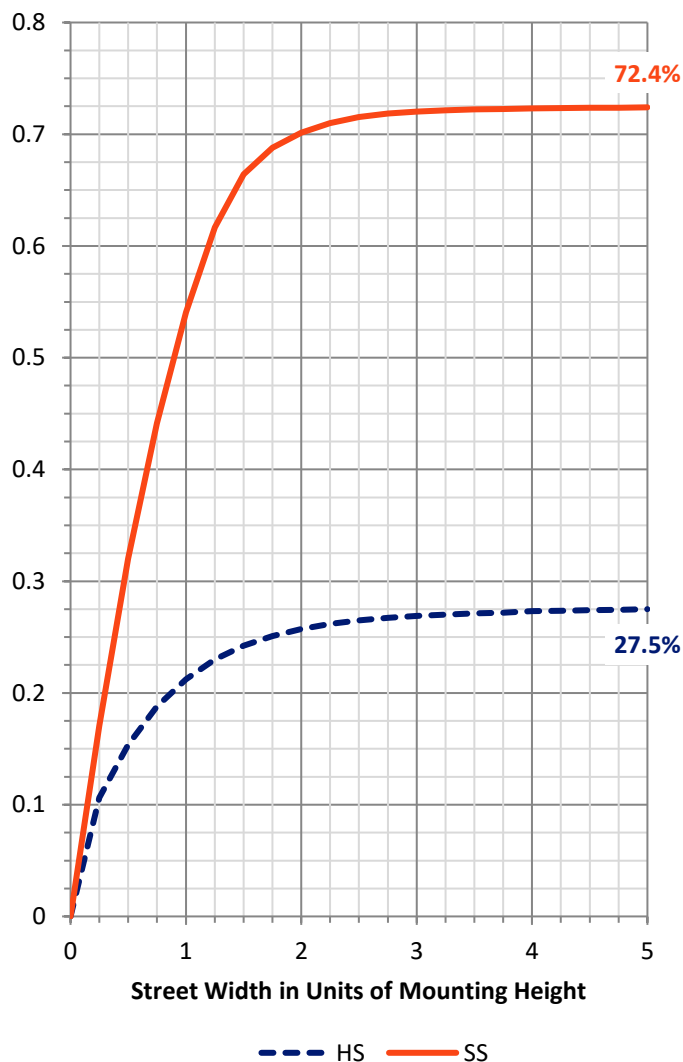
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9703.1	0.0	9703.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	25369.9	0.0	25369.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	35073.0	0.0	35073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1175.7	3.4
10°-20°	2722.1	7.8
20°-30°	3824.6	10.9
30°-40°	5346.8	15.2
40°-50°	7238.6	20.6
50°-60°	8816.9	25.1
60°-70°	4592.2	13.1
70°-80°	1176.7	3.4
80°-90°	179.5	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°	35073.0	100.0
0°-180°	35073.0	100.0

Coefficient of Utilization



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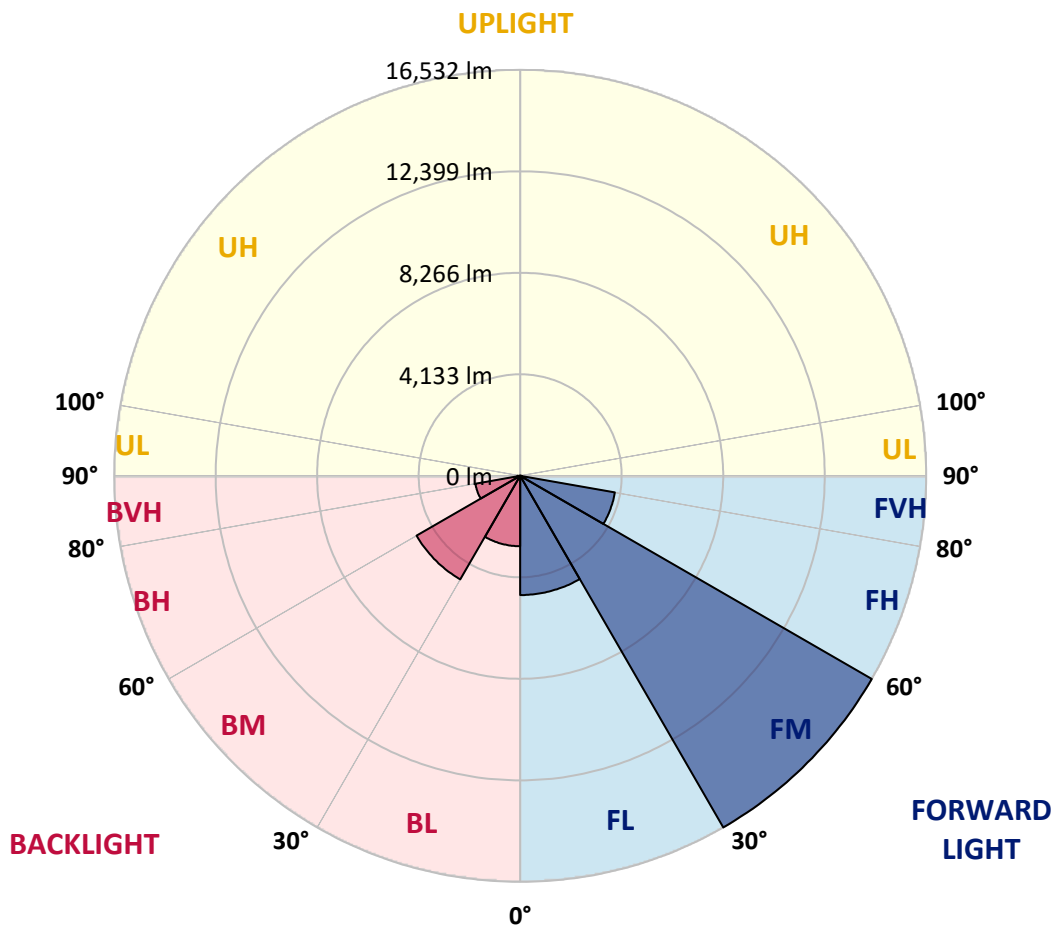
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4854.6	13.8			
FM (30°-60°)	16532.3	47.1			
FH (60°-80°)	3915.1	11.2			G2/5000
FVH (80°-90°)	67.8	0.2			G1/100
BL (0°-30°)	2867.8	8.2	B4/5000		
BM (30°-60°)	4869.9	13.9	B3/5000		
BH (60°-80°)	1853.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	111.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5
2.5°	14020.2	13966.1	13975.1	14047.2	13957.1	13921.0	13921.0	13745.2	13758.7	13637.0	13605.4
5°	13695.6	13569.4	13655.0	13763.2	13781.2	13817.3	13875.9	13830.8	13704.6	13573.9	13362.0
7.5°	12848.1	12960.8	12992.3	13069.0	13231.3	13380.0	13564.9	13438.6	13434.1	13303.4	13177.2
10°	12104.2	12036.6	12207.9	12320.6	12591.1	12839.0	13123.1	13109.5	13177.2	13028.4	12812.0
12.5°	11364.9	11310.8	11392.0	11648.9	12027.6	12388.2	12726.3	12600.1	12960.8	12933.7	12469.4
15°	10580.5	10621.1	10738.3	10977.2	11473.1	11905.9	12334.1	12338.7	12658.7	12766.9	12144.8
17.5°	10030.5	9985.4	10134.2	10490.3	10932.1	11450.6	11937.4	12036.6	12528.0	12591.1	12045.6
20°	9620.3	9683.4	9877.2	10057.6	10567.0	11193.6	11743.6	11779.6	12500.9	12672.2	11887.8
22.5°	9521.1	9485.0	9548.1	9841.2	10260.4	10941.1	11639.9	11775.1	12496.4	12645.2	11590.3
25°	9417.4	9534.6	9530.1	9823.1	10129.7	10738.3	11725.6	11874.3	12735.4	12785.0	11630.9
27.5°	9651.8	9638.3	9764.5	9787.1	10165.7	10792.4	11905.9	12018.6	13132.1	13091.5	11662.4
30°	9886.2	9818.6	9895.3	10161.2	10337.1	11103.4	12401.8	12392.7	13646.0	13618.9	11761.6
32.5°	10174.8	10143.2	10192.8	10427.2	10724.8	11518.2	12821.0	13087.0	14168.9	14340.2	12104.2
35°	10228.9	10359.6	10476.8	10792.4	11216.1	12189.9	13609.9	13830.8	14773.0	15309.5	12757.9
37.5°	10571.5	10621.1	10896.1	11455.1	11842.8	13087.0	14110.3	14250.1	15323.0	15931.6	13447.6
40°	10936.6	10995.2	11410.0	11996.0	12528.0	13673.0	14579.2	14624.3	15498.8	16409.5	13898.5
42.5°	11432.5	11486.6	11896.9	12631.7	13344.0	14173.4	14993.9	15043.5	15485.3	16959.4	14615.2
45°	11946.4	12077.2	12559.5	13393.5	14033.7	14759.5	15088.6	15291.5	15611.5	17450.8	15196.8
47.5°	12667.7	12789.5	13186.2	14002.1	14750.5	15273.4	15525.9	15724.2	15913.6	17879.1	15571.0
50°	13434.1	13456.7	13939.0	14678.4	15228.3	15855.0	16341.8	16409.5	16310.3	18375.0	16206.6
52.5°	13997.6	14069.8	14443.9	15165.2	15985.7	16756.6	17423.8	17495.9	17302.1	18559.8	16423.0
55°	13064.5	13023.9	13632.5	14592.7	16495.1	18100.0	19069.2	19123.3	18023.4	19132.3	17130.8
57.5°	10098.1	10292.0	10810.4	11969.0	14655.8	18695.1	20340.5	20146.7	18888.9	19420.9	17581.6
60°	7339.2	7294.1	7641.2	8416.6	11044.8	16111.9	19231.5	19429.9	18181.1	17504.9	14498.0
62.5°	5977.7	5914.6	5941.7	5968.7	7127.3	10693.2	14236.6	14232.0	14002.1	12582.1	9778.1
65°	4778.6	4927.3	4940.9	5143.7	5292.5	6388.0	8249.8	8691.6	7569.1	6207.6	4503.6
67.5°	3602.0	3547.9	3728.2	4449.5	4729.0	4611.8	4503.6	4553.2	3236.8	2335.2	2199.9
70°	2123.3	2100.8	2317.2	3101.6	3895.0	3665.1	3394.6	3399.1	2222.5	1631.9	1816.8
72.5°	1163.1	1158.6	1203.7	1573.3	2213.5	2299.1	2037.7	2100.8	1325.4	1320.9	1420.0
75°	649.2	635.6	622.1	694.2	797.9	843.0	861.0	870.1	910.6	1018.8	1059.4
77.5°	238.9	229.9	229.9	266.0	338.1	423.8	536.5	545.5	644.7	739.3	779.9
80°	81.1	90.2	121.7	166.8	225.4	302.0	365.2	374.2	455.3	518.4	532.0
82.5°	49.6	54.1	81.1	117.2	162.3	211.9	270.5	275.0	338.1	378.7	396.7
85°	22.5	27.0	45.1	72.1	103.7	139.8	144.3	144.3	139.8	144.3	135.2
87.5°	0.0	0.0	9.0	9.0	9.0	13.5	18.0	13.5	22.5	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°	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5	13632.5
2.5°	13510.8	13461.2	13307.9	13172.6	13132.1	12951.8	12685.8	12717.3	12523.5	12613.6	12519.0
5°	13325.9	13159.1	12766.9	12600.1	12162.8	11964.5	11829.2	11491.1	11333.3	11301.8	11166.5
7.5°	12852.6	12748.9	12257.5	11806.7	11342.4	10945.6	10436.2	10089.1	9841.2	9773.5	9575.2
10°	12478.4	12248.5	11567.8	10882.5	10219.8	9530.1	8867.4	8349.0	8096.5	7803.5	7704.3
12.5°	12108.7	11761.6	10842.0	9962.9	9106.3	8236.3	7433.8	6802.7	6252.7	6122.0	6076.9
15°	11878.8	11274.7	10192.8	9133.4	7916.2	6780.2	5977.7	5563.0	5224.9	5085.1	5184.3
17.5°	11576.8	10873.5	9570.7	8159.6	6820.7	5774.9	5103.2	4846.2	4724.5	4738.0	4697.4
20°	11198.1	10494.8	8754.7	7276.1	5842.5	5008.5	4625.3	4530.6	4548.7	4580.2	4566.7
22.5°	10927.6	10035.0	8164.2	6374.4	5049.1	4584.7	4426.9	4359.3	4417.9	4445.0	4422.4
25°	10720.2	9642.8	7447.4	5576.5	4589.2	4345.8	4273.7	4269.2	4359.3	4395.4	4372.9
27.5°	10530.9	9277.7	6735.1	4967.9	4282.7	4161.0	4138.4	4192.5	4251.1	4287.2	4318.8
30°	10418.2	8998.2	6067.9	4458.5	4129.4	4070.8	4030.2	4079.8	4111.4	4147.4	4129.4
32.5°	10526.4	8799.8	5423.2	4170.0	4003.2	3944.6	3998.7	3967.1	4021.2	4052.8	4003.2
35°	10864.5	8624.0	4963.4	4016.7	3858.9	3881.5	3890.5	3877.0	3899.5	3872.5	3931.1
37.5°	11198.1	8560.9	4539.6	3886.0	3791.3	3791.3	3782.3	3755.2	3800.3	3791.3	3818.4
40°	11621.9	8601.4	4179.0	3746.2	3728.2	3719.2	3683.1	3678.6	3660.6	3665.1	3674.1
42.5°	11991.5	8691.6	3971.6	3656.1	3669.6	3687.6	3620.0	3565.9	3588.4	3543.4	3543.4
45°	12383.7	8772.7	3786.8	3593.0	3579.4	3574.9	3520.8	3489.3	3471.2	3475.7	3516.3
47.5°	13001.3	8890.0	3647.0	3507.3	3516.3	3448.7	3435.2	3394.6	3412.6	3439.7	3444.2
50°	13438.6	9137.9	3538.9	3408.1	3439.7	3394.6	3313.4	3295.4	3295.4	3340.5	3331.5
52.5°	13745.2	9485.0	3435.2	3299.9	3313.4	3277.4	3250.3	3209.8	3182.7	3245.8	3277.4
55°	14682.9	10062.1	3408.1	3209.8	3205.3	3169.2	3119.6	3079.0	3065.5	3074.5	3137.6
57.5°	14592.7	9881.7	3322.5	3052.0	3043.0	2993.4	2943.8	2930.3	2925.8	2934.8	2952.8
60°	11847.3	7298.6	2966.3	2871.7	2858.1	2849.1	2799.5	2745.4	2718.4	2745.4	2722.9
62.5°	7839.6	4886.8	2614.7	2655.3	2664.3	2641.7	2560.6	2506.5	2515.5	2547.1	2497.5
65°	3849.9	2871.7	2371.3	2479.5	2488.5	2425.4	2348.7	2285.6	2254.0	2281.1	2258.6
67.5°	2199.9	2195.4	2172.9	2285.6	2281.1	2218.0	2096.3	2042.2	1988.1	1997.1	1983.6
70°	1866.4	1902.4	1947.5	2015.1	2010.6	1938.5	1794.2	1753.6	1677.0	1668.0	1645.5
72.5°	1469.6	1532.8	1631.9	1681.5	1640.9	1550.8	1456.1	1388.5	1320.9	1280.3	1293.8
75°	1091.0	1181.1	1235.2	1266.8	1203.7	1154.1	1077.4	996.3	915.1	879.1	865.6
77.5°	793.4	820.5	870.1	892.6	852.0	802.4	757.4	676.2	599.6	550.0	536.5
80°	554.5	572.5	608.6	608.6	608.6	586.1	527.4	446.3	396.7	351.6	342.6
82.5°	387.7	405.7	441.8	423.8	419.3	392.2	356.1	293.0	238.9	207.4	198.4
85°	135.2	148.8	180.3	216.4	229.9	225.4	202.9	162.3	126.2	103.7	94.7
87.5°	31.6	31.6	36.1	31.6	31.6	36.1	31.6	31.6	31.6	22.5	18.0
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)