

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: P534051

Luminaire Tested: **GALN-SA9C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44290 lumens
Efficiency: N/A
Efficacy: 92.1 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

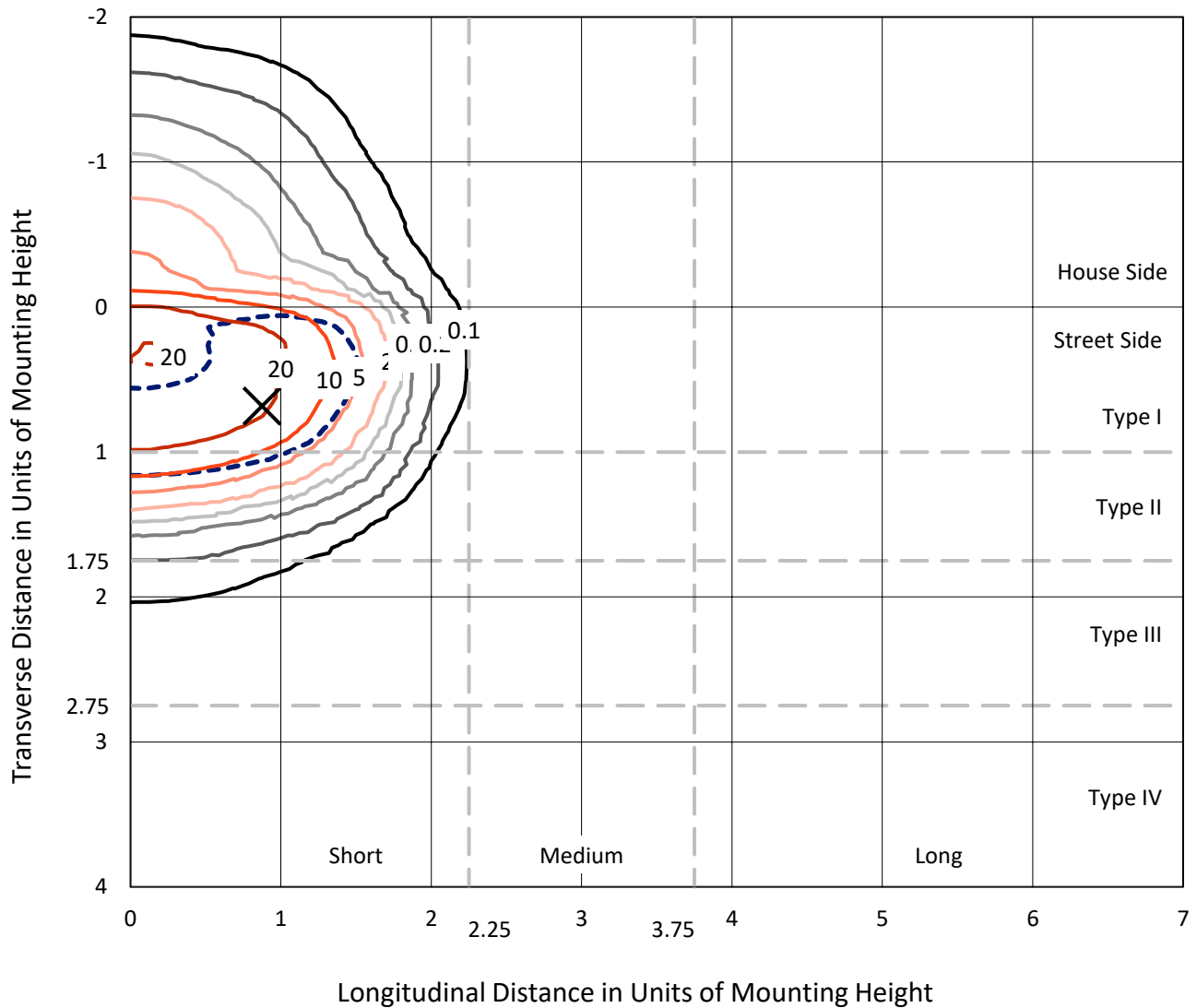
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

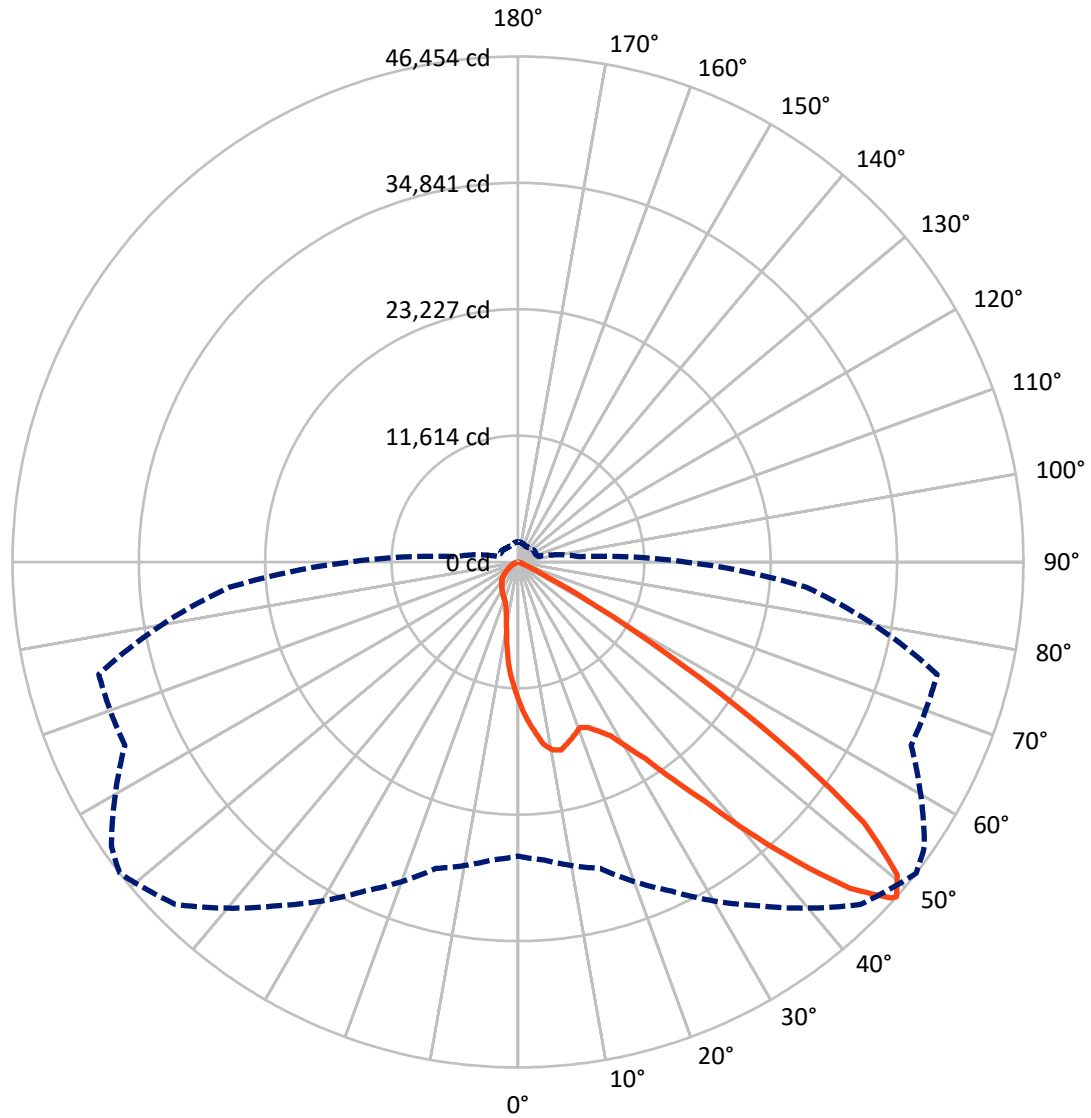
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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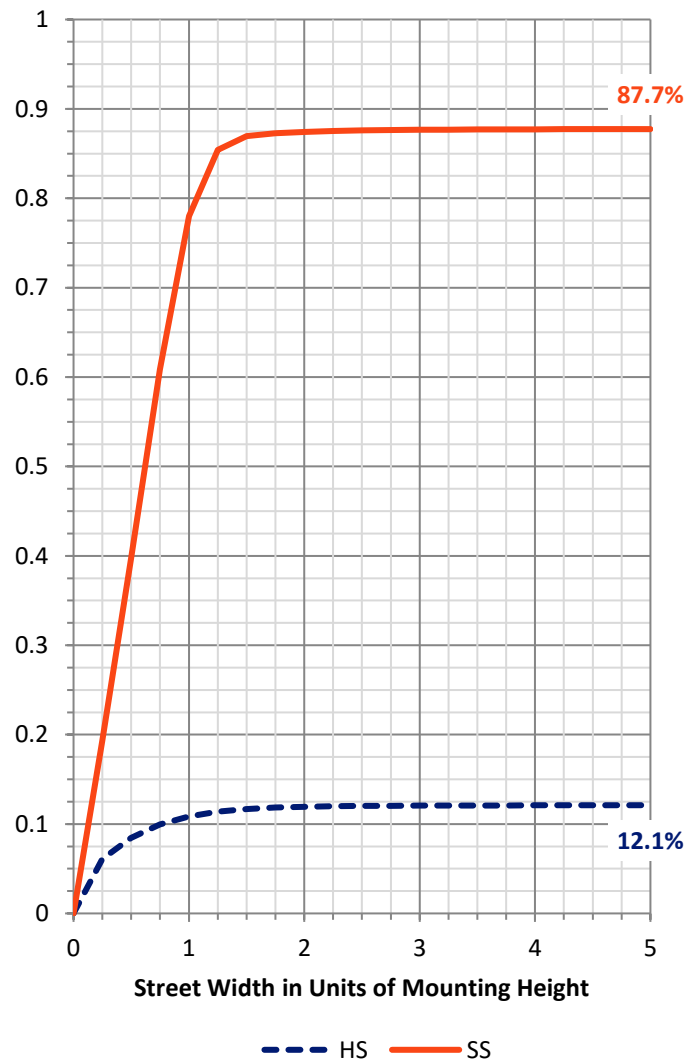
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5392.7	0.0	5392.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	38897.3	0.0	38897.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	44290.0	0.0	44290.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1170.7	2.6
10°-20°	3059.4	6.9
20°-30°	5223.6	11.8
30°-40°	9619.3	21.7
40°-50°	14938.7	33.7
50°-60°	8990.6	20.3
60°-70°	1039.9	2.3
70°-80°	201.3	0.5
80°-90°	46.6	0.1
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°	44290.0	100.0
0°-180°	44290.0	100.0



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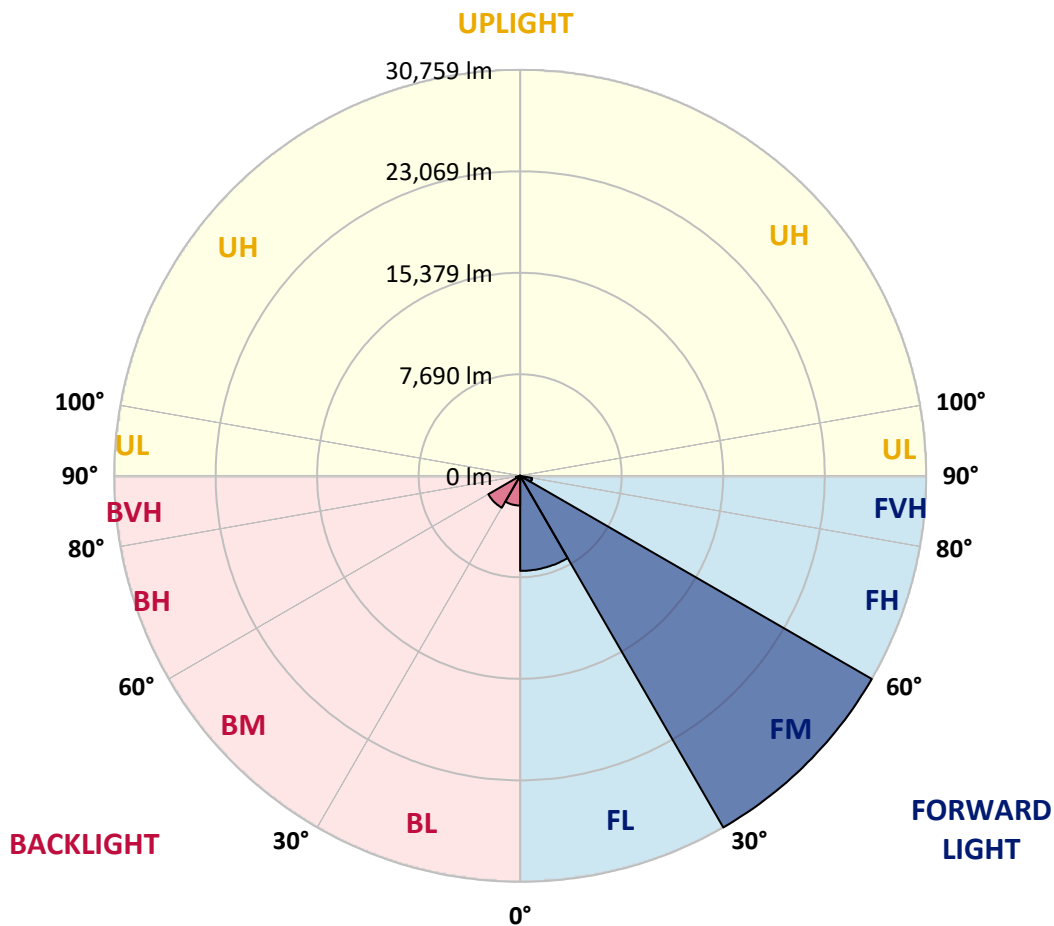
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7201.0	16.3			
FM (30°-60°)	30758.5	69.4			
FH (60°-80°)	915.7	2.1			G1/1800
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	2252.7	5.1	B3/2500		
BM (30°-60°)	2790.1	6.3	B3/5000		
BH (60°-80°)	325.5	0.7	B1/500		G1/500
BVH (80°-90°)	24.4	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°	52°	55°	65°	75°	85°
0°	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2
2.5°	15501.9	15146.8	15179.1	14946.7	14811.1	14591.6	14294.6	14236.5	13913.6	13474.6	13029.1
5°	16896.5	16812.6	16922.3	16586.6	16599.5	16238.0	15540.7	15553.6	14811.1	14094.4	13403.6
7.5°	16986.9	16793.2	16903.0	17200.0	17374.3	17309.7	16915.9	16573.7	15869.9	14817.5	13810.3
10°	15211.4	15579.4	15695.6	16186.3	16883.6	17619.6	17574.4	17593.8	17006.3	15631.1	14159.0
12.5°	14146.1	13900.7	14294.6	14591.6	15644.0	17070.8	17722.9	17865.0	17910.2	16418.7	14507.6
15°	13661.8	13661.8	13726.4	13810.3	14572.2	15889.3	17219.3	17632.5	18607.5	17451.8	15056.4
17.5°	13965.3	13952.4	14042.8	13868.4	14152.5	15166.2	16754.5	17225.8	19388.7	18465.4	15489.0
20°	14888.6	14933.8	14875.6	14372.0	14391.4	15153.3	16238.0	16980.4	19918.1	19343.5	16063.6
22.5°	16173.4	16199.2	15869.9	15321.1	15159.7	15534.2	16535.0	17103.1	20344.3	20395.9	16238.0
25°	17658.4	17555.1	17490.5	16715.7	16225.0	16547.9	17206.4	17535.7	20609.0	21299.8	16735.1
27.5°	19718.0	19511.4	19117.5	18426.7	18065.1	17606.7	18078.0	18620.4	21364.4	22565.3	17277.4
30°	22759.0	22578.2	21809.9	20918.9	19969.8	19517.8	19666.3	19963.3	22726.7	24030.9	17994.1
32.5°	27336.6	26955.7	25845.1	24147.1	22855.8	21609.7	21571.0	21887.3	23947.0	26058.2	18846.4
35°	32379.1	32262.9	30629.4	28879.7	26381.0	24457.0	24489.3	24657.2	26284.2	28718.3	19963.3
37.5°	35730.0	36369.2	35329.7	33450.8	31352.5	28602.0	27904.8	27962.9	29493.0	31869.0	21977.7
40°	38319.0	37776.7	37899.3	37460.3	36027.0	34154.6	32611.5	32308.0	33205.5	35355.5	23979.2
42.5°	37189.1	37214.9	37970.3	39009.8	39364.9	39229.4	37654.0	37079.4	36382.1	38209.2	25883.9
45°	33999.6	34664.7	35646.0	38396.5	40811.2	43077.4	42767.5	41811.9	38577.3	40469.0	26981.5
47.5°	28912.0	28886.1	30493.8	34070.7	39436.0	44743.2	46150.7	45479.2	40133.3	40217.2	26755.5
48°	27033.1	27498.0	29157.3	33366.9	38564.3	44497.8	46454.1	45608.3	39868.5	39881.5	26561.8
50°	19982.7	19898.8	21964.8	27130.0	34445.1	41811.9	45175.7	45834.3	39862.1	38183.4	25206.0
52.5°	10556.3	10917.8	12422.2	17057.9	24353.7	34219.2	39849.2	40875.7	38454.6	35407.1	23256.1
55°	4487.2	4054.6	5210.4	7702.5	13700.6	22862.3	29234.8	31520.4	32514.7	31333.1	20344.3
57.5°	1601.2	1749.7	2014.4	2898.9	5759.1	12512.6	17432.4	19207.9	22526.5	22991.4	13862.0
60°	1026.6	1045.9	1129.9	1330.0	2162.9	4823.0	8270.7	9684.7	11189.0	11550.6	6469.4
62.5°	794.1	800.6	839.3	871.6	1026.6	1872.4	3105.5	3680.2	3822.2	3286.3	1698.0
65°	665.0	671.5	684.4	684.4	729.6	878.1	1084.7	1194.4	1162.2	1149.2	962.0
67.5°	510.1	523.0	548.8	548.8	574.6	535.9	600.4	639.2	723.1	878.1	820.0
70°	400.3	406.8	426.1	439.0	439.0	387.4	432.6	471.3	529.4	652.1	645.6
72.5°	309.9	322.8	335.7	335.7	316.4	264.7	309.9	342.2	380.9	452.0	439.0
75°	238.9	238.9	245.3	200.1	155.0	135.6	187.2	226.0	284.1	297.0	245.3
77.5°	64.6	71.0	64.6	58.1	64.6	96.8	122.7	142.0	180.8	180.8	161.4
80°	0.0	6.5	19.4	38.7	64.6	90.4	109.8	122.7	142.0	155.0	148.5
82.5°	0.0	6.5	19.4	38.7	58.1	71.0	96.8	103.3	116.2	135.6	135.6
85°	0.0	6.5	12.9	25.8	38.7	45.2	45.2	38.7	38.7	32.3	25.8
87.5°	0.0	0.0	6.5	12.9	12.9	19.4	19.4	19.4	19.4	19.4	19.4
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°	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2	12790.2
2.5°	12854.8	12654.6	12351.2	11873.4	11415.0	11118.0	10833.9	10517.5	10343.2	10330.3	10233.5
5°	13009.7	12557.8	11834.7	11014.7	10136.6	9381.2	8619.4	8122.2	7676.7	7431.4	7386.2
7.5°	13093.7	12506.1	11337.5	9962.3	8464.4	7231.2	6379.0	5752.7	5507.3	5326.6	5320.1
10°	13268.0	12415.7	10595.0	8567.7	6714.7	5468.6	4881.1	4597.0	4461.4	4409.8	4332.3
12.5°	13397.1	12247.9	9833.2	7134.4	5307.2	4532.4	4274.2	4209.6	4216.1	4241.9	4209.6
15°	13577.9	12099.4	8806.6	5856.0	4454.9	4080.5	4080.5	4093.4	4183.8	4196.7	4190.2
17.5°	13565.0	11808.8	7747.7	4823.0	3938.4	3886.8	3906.1	4028.8	4086.9	4106.3	4061.1
20°	13719.9	11537.7	6656.6	4119.2	3647.9	3725.4	3854.5	3886.8	3957.8	3970.7	3919.1
22.5°	13674.7	10859.7	5642.9	3564.0	3428.4	3576.9	3706.0	3744.7	3725.4	3686.6	3680.2
25°	13590.8	10278.7	4713.2	3195.9	3267.0	3428.4	3551.0	3480.0	3441.3	3447.7	3454.2
27.5°	13442.3	9542.6	3944.9	2937.7	3047.4	3286.3	3279.9	3254.0	3292.8	3260.5	3292.8
30°	13416.5	8806.6	3312.2	2705.3	2886.0	3060.4	3073.3	3118.5	3163.7	3105.5	3163.7
32.5°	13455.2	7999.5	2860.2	2563.2	2789.2	2795.6	2937.7	2982.9	2950.6	2821.5	2834.4
35°	13752.2	7379.7	2530.9	2485.7	2634.2	2640.7	2776.3	2718.2	2576.1	2498.6	2543.8
37.5°	14378.5	6863.2	2376.0	2414.7	2427.6	2511.6	2518.0	2401.8	2414.7	2408.3	2434.1
40°	15179.1	6469.4	2266.2	2350.1	2337.2	2395.3	2162.9	2227.5	2285.6	2305.0	2317.9
42.5°	15727.9	6185.3	2195.2	2246.8	2221.0	2117.7	1988.6	2053.1	2098.3	2169.4	2182.3
45°	15973.2	5959.3	2111.3	2066.1	2066.1	1878.8	1827.2	1840.1	1943.4	2020.9	2008.0
47.5°	15572.9	5739.8	1962.8	1827.2	1872.4	1717.4	1659.3	1659.3	1769.1	1865.9	1846.5
48°	15418.0	5649.4	1969.2	1775.5	1807.8	1691.6	1633.5	1620.6	1743.2	1833.6	1833.6
50°	14649.7	5313.7	1801.3	1633.5	1568.9	1556.0	1517.3	1530.2	1607.7	1691.6	1691.6
52.5°	13151.8	4590.5	1523.7	1401.0	1284.8	1362.3	1381.7	1355.9	1394.6	1472.1	1465.6
55°	10976.0	3525.2	1220.3	1162.2	1071.8	1155.7	1194.4	1162.2	1123.4	1181.5	1181.5
57.5°	7031.1	1898.2	974.9	987.8	897.4	981.4	1013.7	936.2	865.2	910.4	903.9
60°	3170.1	1136.3	800.6	781.2	723.1	820.0	871.6	781.2	684.4	716.7	748.9
62.5°	1188.0	807.1	606.9	594.0	581.1	671.5	697.3	626.3	529.4	548.8	555.3
65°	871.6	710.2	484.2	439.0	464.9	529.4	516.5	445.5	380.9	380.9	393.8
67.5°	742.5	619.8	393.8	342.2	342.2	348.6	322.8	284.1	264.7	277.6	290.5
70°	581.1	490.7	309.9	264.7	238.9	213.1	187.2	180.8	161.4	180.8	174.3
72.5°	374.5	329.3	238.9	200.1	180.8	148.5	122.7	116.2	96.8	90.4	90.4
75°	200.1	200.1	187.2	161.4	142.0	116.2	96.8	77.5	51.7	38.7	38.7
77.5°	142.0	155.0	167.9	155.0	129.1	96.8	77.5	51.7	25.8	12.9	12.9
80°	135.6	155.0	167.9	148.5	129.1	96.8	71.0	38.7	19.4	6.5	6.5
82.5°	122.7	142.0	155.0	135.6	116.2	83.9	64.6	38.7	19.4	6.5	6.5
85°	25.8	32.3	38.7	38.7	45.2	58.1	45.2	32.3	12.9	6.5	6.5
87.5°	19.4	19.4	19.4	19.4	19.4	19.4	12.9	12.9	6.5	6.5	6.5
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)