

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: P534286

Luminaire Tested: **GALN-SA9D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58951 lumens
Efficiency: N/A
Efficacy: 106.8 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

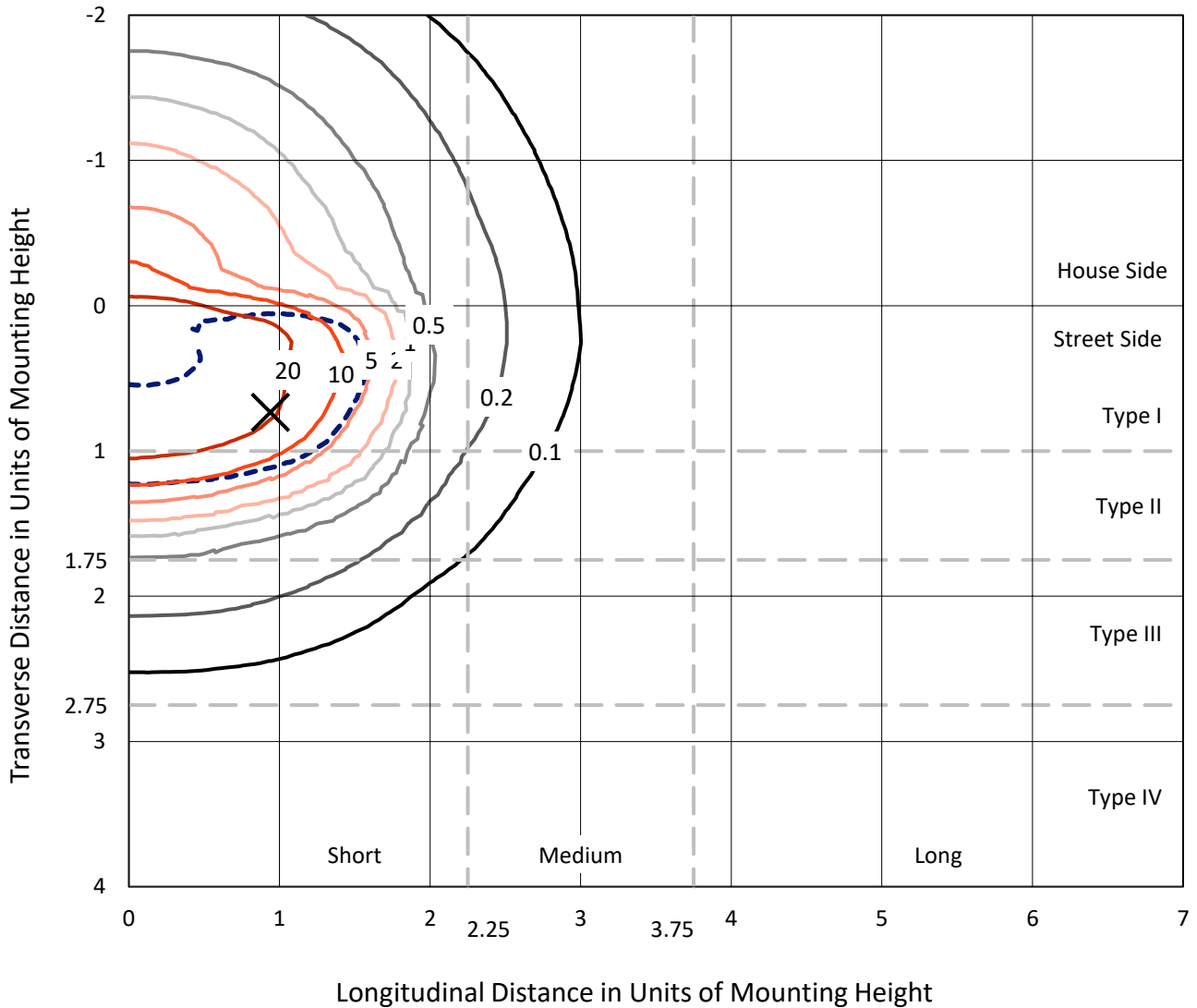
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

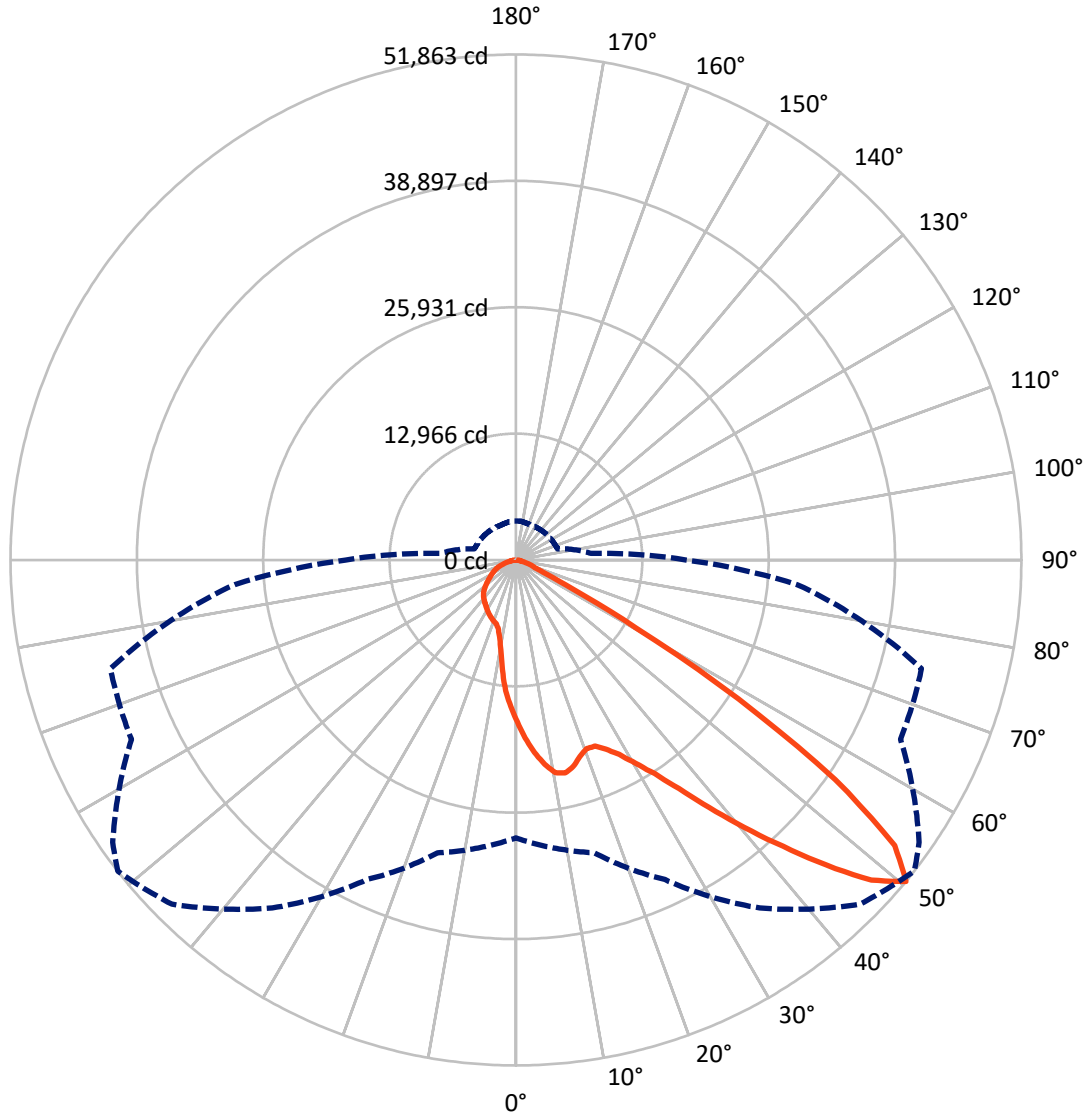
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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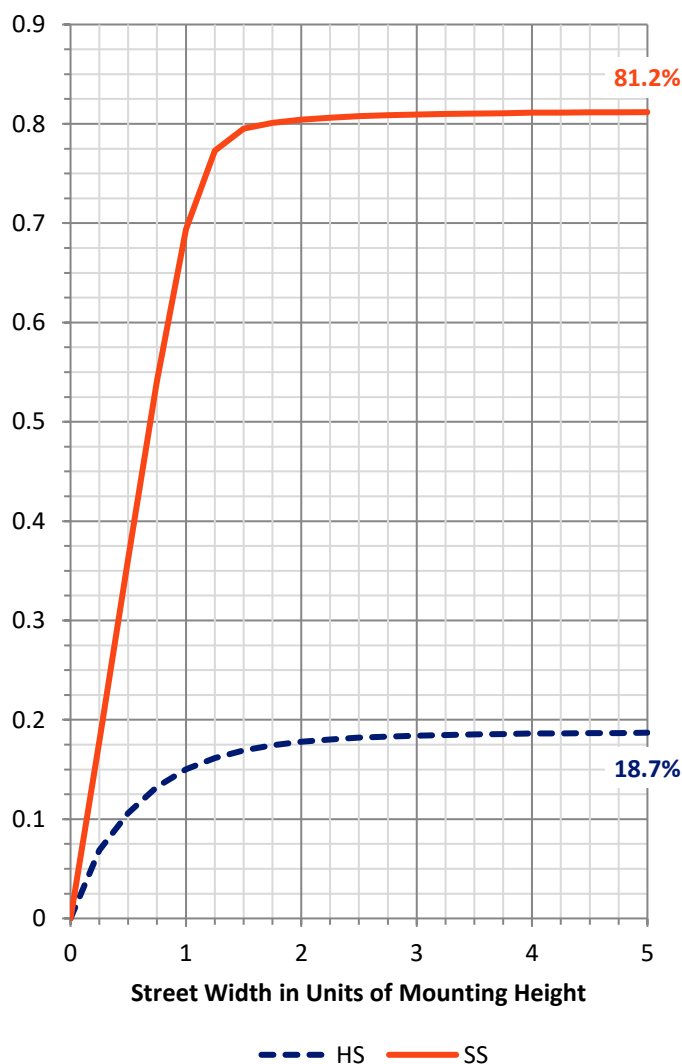
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11081.4	0.0	11081.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47869.6	0.0	47869.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	58951.0	0.0	58951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1531.6	2.6
10°-20°	4105.1	7.0
20°-30°	6914.9	11.7
30°-40°	11603.8	19.7
40°-50°	17750.9	30.1
50°-60°	12941.8	22.0
60°-70°	2880.2	4.9
70°-80°	1038.9	1.8
80°-90°	183.9	0.3
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°	58951.0	100.0
0°-180°	58951.0	100.0

Coefficient of Utilization



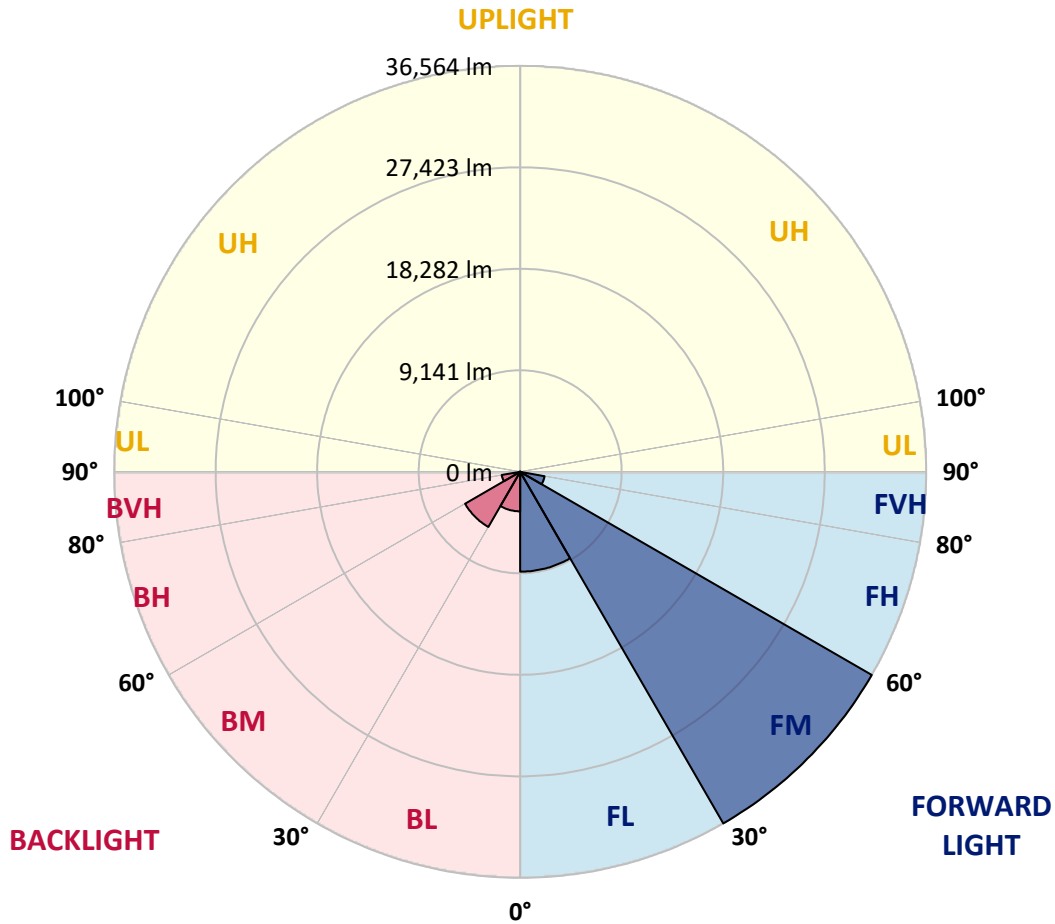
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8992.0	15.3			
FM (30°-60°)	36564.4	62.0			
FH (60°-80°)	2230.8	3.8			G2/5000
FVH (80°-90°)	82.4	0.1			G1/100
BL (0°-30°)	3559.6	6.0	B4/5000		
BM (30°-60°)	5732.1	9.7	B4/8500		
BH (60°-80°)	1688.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	101.5	0.2			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°	52°	55°	65°	75°	85°
0°	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3
2.5°	19565.7	19189.1	19231.7	18961.8	18670.5	18585.2	18286.9	18002.7	17789.5	17334.9	16915.7
5°	21384.4	21270.7	21100.2	20887.1	20666.8	20126.9	19821.4	19466.2	18684.7	17981.4	17285.1
7.5°	21647.3	21625.9	21718.3	21718.3	21796.5	21590.4	21157.1	20908.4	20077.2	18933.4	17640.4
10°	19800.1	19864.0	20311.6	20894.2	21704.1	22265.3	22194.3	22130.4	21221.0	19658.0	18059.5
12.5°	18329.5	18187.4	18450.3	18947.6	20162.4	21519.4	22435.9	22443.0	22208.5	20816.0	18365.0
15°	17498.3	17597.7	17668.8	17903.2	18819.7	20389.8	22002.5	22478.5	23508.6	21633.1	18848.1
17.5°	18031.1	17697.2	17683.0	17739.8	18208.7	19388.0	21199.7	22016.7	24219.1	22684.5	19444.9
20°	18727.3	18720.2	18521.3	18450.3	18443.2	19494.6	20674.0	21782.2	24595.6	24048.6	20048.8
22.5°	19949.3	19949.3	19622.5	19466.2	19132.3	19991.9	20745.0	21498.1	25220.8	24986.4	20340.0
25°	21995.4	21661.5	21100.2	20716.6	20524.8	20830.2	21498.1	22173.0	25767.8	25981.0	20943.9
27.5°	23885.2	23359.4	23082.4	22421.6	22165.9	21988.3	22599.3	23281.3	26407.2	27529.7	21270.7
30°	26030.7	25938.3	25441.0	24588.5	23956.2	23629.4	24190.7	24865.6	27579.5	29114.0	22023.8
32.5°	29867.1	29028.8	28353.9	27309.5	26279.4	25583.1	26137.3	26584.9	29526.1	30769.4	22847.9
35°	34009.0	33739.0	32573.9	30691.2	29114.0	28488.8	28815.7	29149.6	31792.4	33298.6	24233.3
37.5°	38079.9	37710.4	36751.3	35167.0	33248.8	31977.1	32211.6	32602.3	34335.8	36708.7	25924.1
40°	41006.9	40552.2	40069.1	39834.7	37930.7	36190.1	36055.1	36154.5	37774.4	39905.7	27799.7
42.5°	41220.0	41781.3	41930.5	42875.4	42427.8	40999.8	40168.6	40189.9	41056.6	43067.2	29696.6
45°	40772.4	40253.8	41355.0	43933.9	45411.6	46079.5	44679.9	44502.3	43088.5	44900.1	30641.5
47.5°	36076.4	36218.5	38079.9	42157.8	46427.6	49411.5	49084.6	48495.0	44175.5	44836.2	30492.3
50°	28517.3	29376.9	31103.3	36183.0	43585.8	49937.2	51862.5	50498.4	43529.0	43074.3	28971.9
52.5°	18990.2	19345.4	20482.1	27039.5	35046.3	44637.3	48665.5	48978.1	42932.2	40765.3	27046.6
55°	8454.3	8425.9	10024.4	14123.6	21988.3	33966.4	39763.6	41667.6	40637.5	38413.8	25171.1
57.5°	3580.6	3701.4	4355.0	6102.7	10813.0	20496.3	26940.1	28609.6	31252.5	31543.8	19309.9
60°	2422.6	2436.8	2614.4	3054.9	4525.5	9626.5	14130.8	16134.2	18024.0	17896.1	10244.6
62.5°	1904.0	1953.7	2088.7	2266.3	2685.5	4369.2	6323.0	7438.4	7559.1	6358.5	3886.1
65°	1626.9	1634.0	1769.0	1918.2	2102.9	2543.4	3047.8	3104.6	3140.2	3026.5	2856.0
67.5°	1342.7	1357.0	1463.5	1634.0	1804.5	1946.6	2088.7	2159.8	2323.2	2642.9	2600.2
70°	1065.7	1087.0	1179.3	1321.4	1477.7	1563.0	1740.6	1804.5	1953.7	2202.4	2301.8
72.5°	809.9	817.0	895.2	994.6	1136.7	1222.0	1371.2	1442.2	1541.7	1754.8	1847.2
75°	582.6	603.9	660.7	710.4	731.8	788.6	930.7	1008.8	1150.9	1243.3	1250.4
77.5°	305.5	319.7	333.9	333.9	405.0	511.5	603.9	646.5	746.0	817.0	781.5
80°	120.8	127.9	163.4	220.2	284.2	369.4	433.4	454.7	539.9	582.6	603.9
82.5°	71.0	78.1	106.6	156.3	206.0	262.9	312.6	333.9	390.7	440.5	454.7
85°	35.5	42.6	63.9	99.5	135.0	163.4	156.3	149.2	149.2	142.1	149.2
87.5°	14.2	14.2	21.3	21.3	21.3	28.4	35.5	35.5	35.5	42.6	42.6
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°	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3	16617.3
2.5°	16638.6	16354.4	16091.6	15608.5	15082.7	14933.6	14322.6	14102.3	13946.0	13761.3	13704.5
5°	16723.9	16347.3	15501.9	14528.6	13754.2	12759.6	12106.0	11402.6	10891.1	10763.2	10727.7
7.5°	16901.5	16255.0	14798.6	13327.9	11743.7	10393.8	9363.7	8809.5	8319.3	8290.9	8241.2
10°	17100.4	15977.9	14031.3	11722.3	9697.6	8447.2	7829.1	7587.6	7466.8	7438.4	7424.2
12.5°	17263.8	15921.1	13171.7	10159.4	8248.3	7495.2	7310.5	7289.2	7338.9	7353.1	7381.5
15°	17334.9	15693.7	12134.4	8759.8	7346.0	7068.9	7147.1	7232.3	7267.9	7360.2	7289.2
17.5°	17469.8	15402.4	10855.6	7651.5	6841.6	6891.3	7026.3	7125.8	7182.6	7246.5	7154.2
20°	17540.9	15139.6	9654.9	6990.8	6664.0	6756.3	6941.0	7019.2	7090.2	7118.7	7012.1
22.5°	17476.9	14599.6	8596.4	6457.9	6493.5	6614.2	6777.6	6862.9	6820.3	6706.6	6642.7
25°	17306.4	13839.5	7495.2	6116.9	6251.9	6465.0	6592.9	6529.0	6450.8	6386.9	6365.6
27.5°	17299.3	12908.8	6699.5	5804.3	6045.9	6337.2	6294.5	6237.7	6273.2	6223.5	6166.7
30°	17334.9	12006.5	6045.9	5626.7	5896.7	6038.8	6088.5	6031.7	6074.3	5981.9	6010.4
32.5°	17150.1	11125.6	5619.6	5420.7	5719.1	5712.0	5875.4	5918.0	5818.5	5626.7	5655.1
35°	17228.3	10415.1	5257.3	5328.3	5520.2	5520.2	5648.0	5598.3	5335.4	5221.8	5250.2
37.5°	17768.2	9718.9	5079.7	5200.5	5328.3	5385.2	5342.5	5129.4	5065.5	5065.5	5079.7
40°	18279.8	9122.1	4973.1	5172.0	5150.7	5186.2	4873.7	4895.0	4895.0	4902.1	4866.5
42.5°	18734.4	8717.2	4887.9	5001.5	5037.1	4852.3	4660.5	4639.2	4688.9	4681.8	4653.4
45°	18897.8	8383.3	4767.1	4809.7	4838.1	4532.6	4440.3	4397.7	4454.5	4475.8	4504.2
47.5°	18272.6	8106.2	4632.1	4546.8	4490.0	4291.1	4170.3	4092.2	4163.2	4284.0	4312.4
50°	17469.8	7743.9	4419.0	4255.6	4134.8	4049.5	3964.3	3886.1	3935.9	4021.1	3999.8
52.5°	16283.4	7175.5	4149.0	3978.5	3772.5	3793.8	3715.6	3673.0	3701.4	3701.4	3680.1
55°	14592.5	5896.7	3694.3	3573.5	3403.0	3459.9	3474.1	3417.2	3360.4	3410.1	3367.5
57.5°	9960.4	4163.2	3296.5	3296.5	3126.0	3204.1	3197.0	3062.0	2927.0	2941.2	2912.8
60°	5761.7	3317.8	3040.7	3012.3	2834.7	2898.6	2912.8	2820.5	2614.4	2628.6	2600.2
62.5°	3275.2	2834.7	2657.1	2614.4	2578.9	2635.8	2635.8	2515.0	2337.4	2351.6	2323.2
65°	2784.9	2628.6	2372.9	2365.8	2351.6	2365.8	2308.9	2181.1	2024.8	1960.8	1967.9
67.5°	2529.2	2429.7	2181.1	2117.1	2074.5	2067.4	1960.8	1840.1	1769.0	1712.2	1705.1
70°	2216.6	2138.4	1953.7	1868.5	1825.8	1726.4	1619.8	1541.7	1442.2	1413.8	1442.2
72.5°	1754.8	1747.7	1676.7	1584.3	1491.9	1413.8	1321.4	1214.9	1122.5	1101.2	1051.5
75°	1214.9	1229.1	1243.3	1229.1	1150.9	1051.5	944.9	859.6	746.0	682.0	667.8
77.5°	795.7	817.0	838.3	809.9	760.2	667.8	596.8	490.2	405.0	355.2	348.1
80°	582.6	611.0	625.2	603.9	547.0	476.0	397.8	312.6	248.7	206.0	206.0
82.5°	447.6	476.0	490.2	454.7	397.8	341.0	284.2	220.2	170.5	135.0	127.9
85°	156.3	149.2	177.6	184.7	220.2	206.0	170.5	127.9	99.5	71.0	63.9
87.5°	42.6	42.6	49.7	49.7	42.6	35.5	35.5	35.5	28.4	21.3	21.3
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)