

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: P534234

Luminaire Tested: **GALN-SA9D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534234
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-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 52924 lumens
Efficiency: N/A
Efficacy: 95.9 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

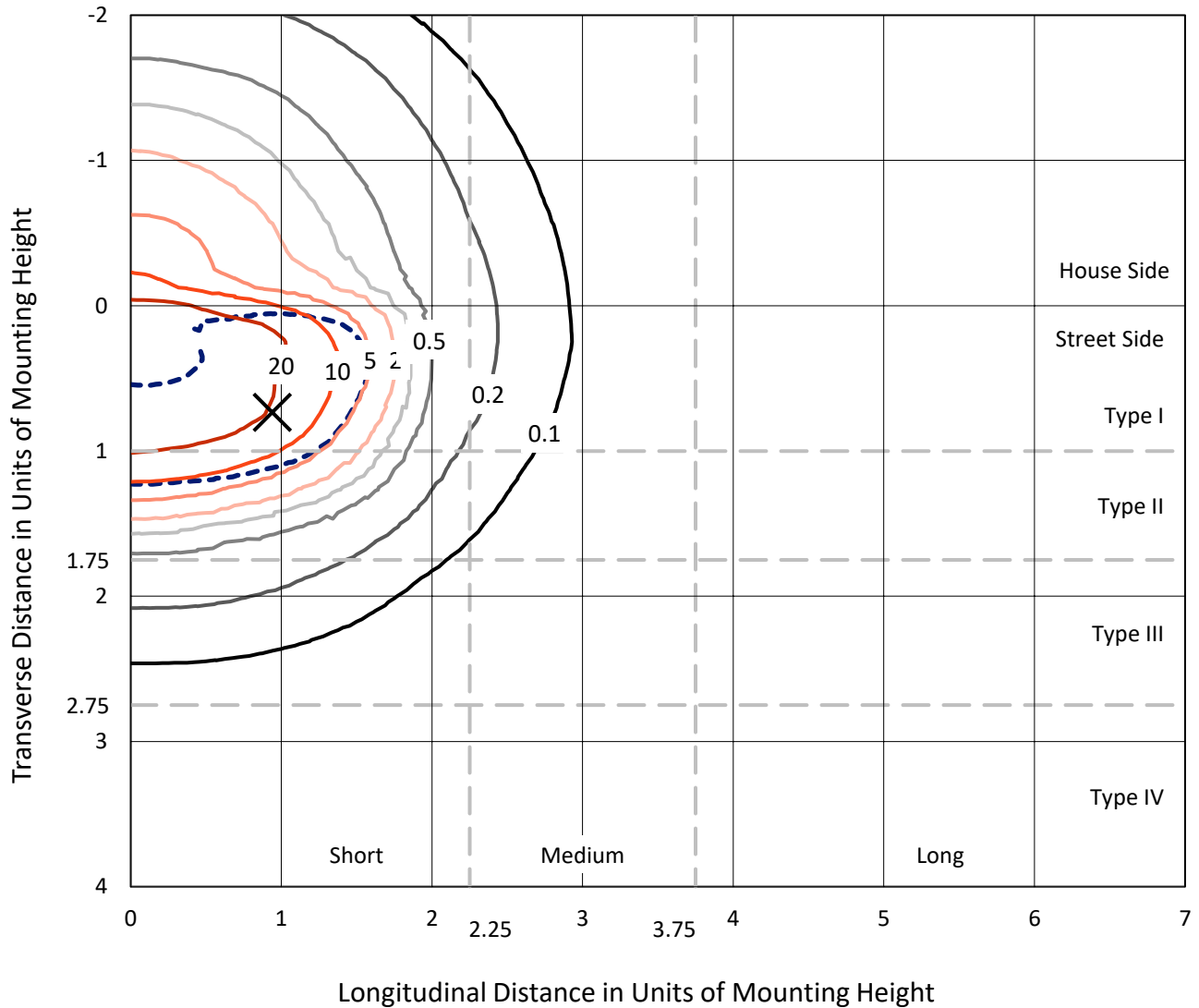
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

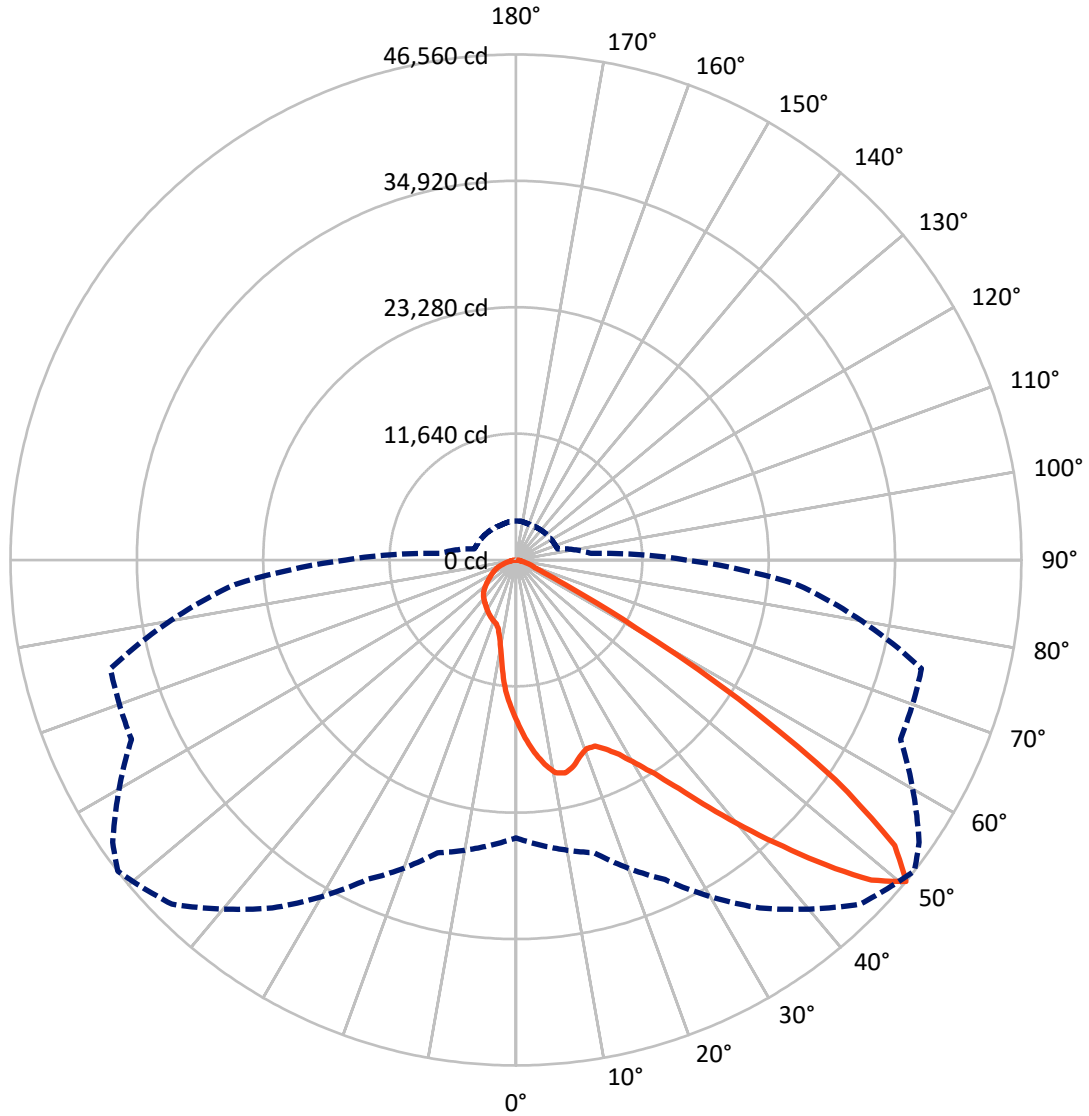
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.5 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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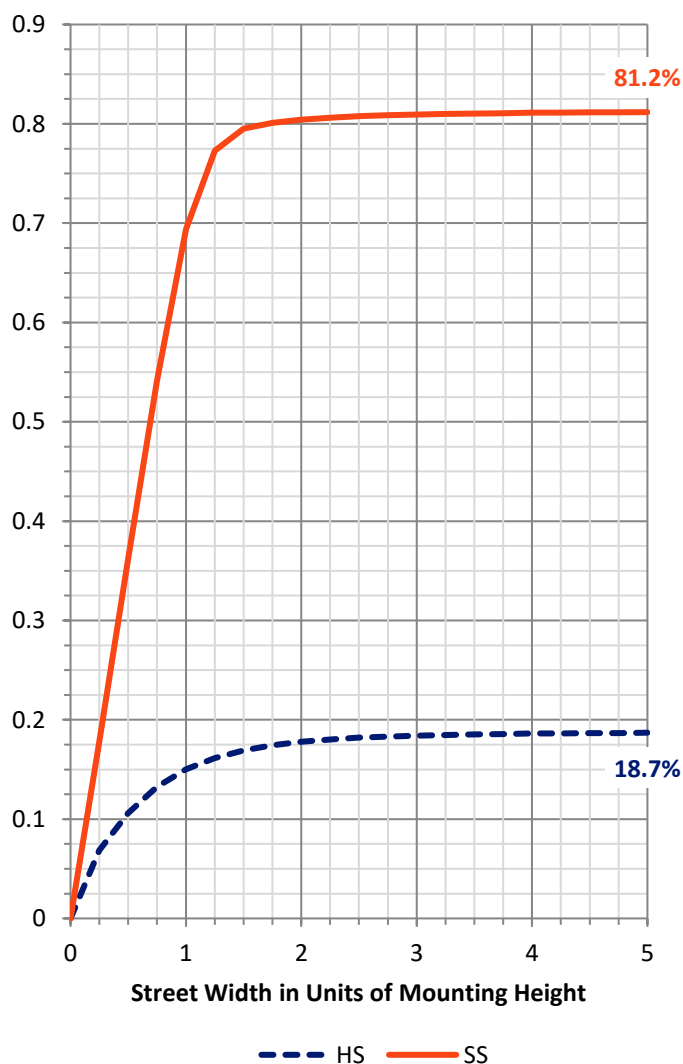
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9948.5	0.0	9948.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	42975.5	0.0	42975.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	52924.0	0.0	52924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1375.0	2.6
10°-20°	3685.4	7.0
20°-30°	6207.9	11.7
30°-40°	10417.4	19.7
40°-50°	15936.1	30.1
50°-60°	11618.7	22.0
60°-70°	2585.7	4.9
70°-80°	932.6	1.8
80°-90°	165.1	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°	52924.0	100.0
0°-180°	52924.0	100.0

Coefficient of Utilization



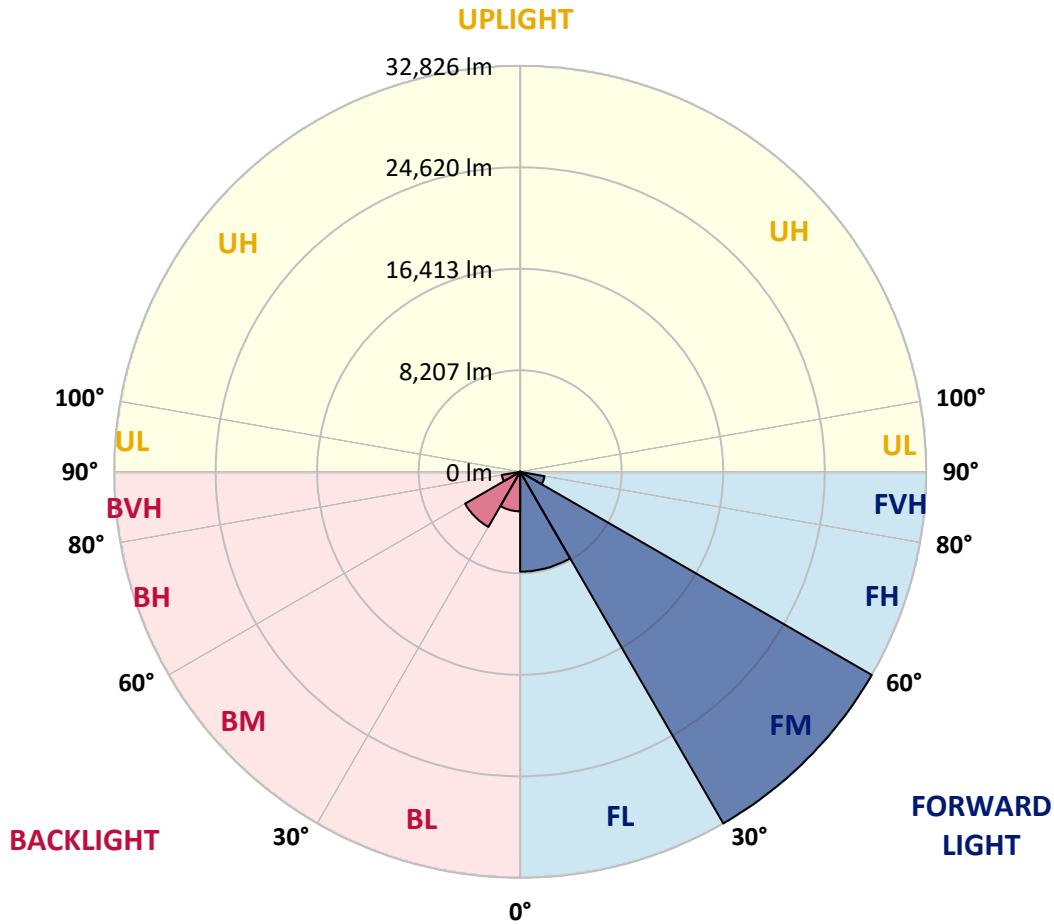
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8072.7	15.3			
FM (30°-60°)	32826.2	62.0			
FH (60°-80°)	2002.7	3.8			G2/5000
FVH (80°-90°)	74.0	0.1			G1/100
BL (0°-30°)	3195.6	6.0	B4/5000		
BM (30°-60°)	5146.0	9.7	B4/8500		
BH (60°-80°)	1515.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	91.1	0.2			G1/100
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°	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4
2.5°	17565.3	17227.3	17265.5	17023.2	16761.7	16685.1	16417.3	16162.1	15970.8	15562.6	15186.3
5°	19198.1	19096.1	18943.0	18751.6	18553.9	18069.2	17794.9	17476.0	16774.4	16143.0	15517.9
7.5°	19434.1	19415.0	19497.9	19497.9	19568.0	19383.1	18994.0	18770.8	18024.5	16997.7	15836.8
10°	17775.8	17833.2	18235.0	18758.0	19485.1	19989.0	19925.2	19867.8	19051.4	17648.2	16213.2
12.5°	16455.5	16328.0	16564.0	17010.4	18101.1	19319.3	20142.1	20148.4	19938.0	18687.9	16487.4
15°	15709.3	15798.6	15862.4	16072.8	16895.6	18305.2	19753.0	20180.3	21105.2	19421.3	16921.1
17.5°	16187.6	15887.9	15875.1	15926.1	16347.1	17405.9	19032.3	19765.8	21743.0	20365.3	17456.9
20°	16812.7	16806.3	16627.7	16564.0	16557.6	17501.5	18560.3	19555.3	22081.0	21589.9	17999.0
22.5°	17909.7	17909.7	17616.3	17476.0	17176.2	17948.0	18624.1	19300.2	22642.3	22431.8	18260.5
25°	19746.6	19446.9	18943.0	18598.6	18426.4	18700.6	19300.2	19906.1	23133.4	23324.7	18802.7
27.5°	21443.2	20971.2	20722.5	20129.3	19899.7	19740.2	20288.8	20901.1	23707.4	24715.2	19096.1
30°	23369.4	23286.5	22840.0	22074.6	21507.0	21213.6	21717.5	22323.4	24759.8	26137.5	19772.1
32.5°	26813.6	26061.0	25455.0	24517.5	23592.6	22967.6	23465.1	23866.9	26507.4	27623.6	20512.0
35°	30532.0	30289.6	29243.6	27553.4	26137.5	25576.2	25869.6	26169.4	28542.0	29894.2	21755.7
37.5°	34186.7	33855.0	32994.0	31571.6	29849.6	28707.9	28918.3	29269.1	30825.4	32955.7	23273.7
40°	36814.4	36406.2	35972.5	35762.1	34052.7	32490.1	32368.9	32458.2	33912.4	35825.8	24957.5
42.5°	37005.8	37509.7	37643.6	38491.9	38090.1	36808.1	36061.8	36081.0	36859.1	38664.1	26660.5
45°	36604.0	36138.4	37127.0	39442.2	40768.9	41368.4	40111.9	39952.5	38683.2	40309.7	27508.8
47.5°	32388.0	32515.6	34186.7	37847.7	41680.9	44359.8	44066.4	43537.0	39659.1	40252.2	27374.8
50°	25601.7	26373.5	27923.4	32483.7	39129.7	44831.7	46560.2	45335.6	39078.7	38670.5	26009.9
52.5°	17048.7	17367.6	18388.1	24275.1	31463.2	40073.7	43690.1	43970.7	38542.9	36597.6	24281.5
55°	7590.0	7564.4	8999.5	12679.7	19740.2	30493.7	35698.3	37407.6	36482.8	34486.4	22597.6
57.5°	3214.6	3323.0	3909.8	5478.8	9707.5	18400.8	24185.8	25684.6	28057.3	28318.8	17335.7
60°	2174.9	2187.7	2347.1	2742.6	4062.9	8642.3	12686.1	14484.7	16181.3	16066.5	9197.2
62.5°	1709.3	1754.0	1875.2	2034.6	2410.9	3922.5	5676.5	6677.9	6786.3	5708.4	3488.8
65°	1460.6	1467.0	1588.1	1722.1	1887.9	2283.4	2736.2	2787.2	2819.1	2717.1	2564.0
67.5°	1205.5	1218.2	1313.9	1467.0	1620.0	1747.6	1875.2	1938.9	2085.6	2372.7	2334.4
70°	956.7	975.9	1058.8	1186.3	1326.6	1403.2	1562.6	1620.0	1754.0	1977.2	2066.5
72.5°	727.1	733.5	803.6	892.9	1020.5	1097.0	1231.0	1294.8	1384.0	1575.4	1658.3
75°	523.0	542.1	593.2	637.8	656.9	708.0	835.5	905.7	1033.3	1116.2	1122.5
77.5°	274.3	287.0	299.8	299.8	363.6	459.2	542.1	580.4	669.7	733.5	701.6
80°	108.4	114.8	146.7	197.7	255.1	331.7	389.1	408.2	484.7	523.0	542.1
82.5°	63.8	70.2	95.7	140.3	185.0	236.0	280.6	299.8	350.8	395.4	408.2
85°	31.9	38.3	57.4	89.3	121.2	146.7	140.3	133.9	133.9	127.6	133.9
87.5°	12.8	12.8	19.1	19.1	19.1	25.5	31.9	31.9	31.9	38.3	38.3
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°	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4	14918.4
2.5°	14937.5	14682.4	14446.4	14012.7	13540.7	13406.8	12858.3	12660.5	12520.2	12354.4	12303.4
5°	15014.1	14676.0	13917.0	13043.2	12348.0	11455.1	10868.3	10236.9	9777.6	9662.8	9630.9
7.5°	15173.5	14593.1	13285.6	11965.3	10543.0	9331.2	8406.3	7908.9	7468.8	7443.3	7398.6
10°	15352.1	14344.4	12596.8	10523.9	8706.1	7583.6	7028.7	6811.8	6703.4	6677.9	6665.1
12.5°	15498.8	14293.3	11825.0	9120.7	7405.0	6728.9	6563.1	6543.9	6588.6	6601.3	6626.9
15°	15562.6	14089.2	10893.8	7864.2	6595.0	6346.2	6416.4	6492.9	6524.8	6607.7	6543.9
17.5°	15683.8	13827.7	9745.8	6869.2	6142.1	6186.8	6308.0	6397.2	6448.3	6505.7	6422.8
20°	15747.6	13591.8	8667.9	6276.1	5982.7	6065.6	6231.4	6301.6	6365.4	6390.9	6295.2
22.5°	15690.1	13107.0	7717.5	5797.7	5829.6	5938.0	6084.7	6161.3	6123.0	6020.9	5963.5
25°	15537.1	12424.6	6728.9	5491.6	5612.7	5804.1	5918.9	5861.5	5791.3	5733.9	5714.8
27.5°	15530.7	11589.0	6014.6	5210.9	5427.8	5689.3	5651.0	5600.0	5631.9	5587.2	5536.2
30°	15562.6	10779.0	5427.8	5051.5	5293.8	5421.4	5466.0	5415.0	5453.3	5370.4	5395.9
32.5°	15396.8	9988.1	5045.1	4866.5	5134.4	5128.0	5274.7	5313.0	5223.7	5051.5	5077.0
35°	15466.9	9350.3	4719.8	4783.6	4955.8	4955.8	5070.6	5026.0	4790.0	4687.9	4713.4
37.5°	15951.7	8725.3	4560.3	4668.8	4783.6	4834.6	4796.3	4605.0	4547.6	4547.6	4560.3
40°	16410.9	8189.5	4464.7	4643.3	4624.1	4656.0	4375.4	4394.5	4394.5	4400.9	4369.0
42.5°	16819.1	7825.9	4388.1	4490.2	4522.1	4356.2	4184.0	4164.9	4209.6	4203.2	4177.7
45°	16965.8	7526.2	4279.7	4318.0	4343.5	4069.2	3986.3	3948.0	3999.1	4018.2	4043.7
47.5°	16404.5	7277.4	4158.5	4082.0	4031.0	3852.4	3744.0	3673.8	3737.6	3846.0	3871.5
50°	15683.8	6952.1	3967.2	3820.5	3712.1	3635.5	3559.0	3488.8	3533.5	3610.0	3590.9
52.5°	14618.6	6441.9	3724.8	3571.7	3386.8	3405.9	3335.8	3297.5	3323.0	3323.0	3303.9
55°	13100.6	5293.8	3316.6	3208.2	3055.1	3106.1	3118.9	3067.9	3016.8	3061.5	3023.2
57.5°	8942.1	3737.6	2959.4	2959.4	2806.4	2876.5	2870.1	2749.0	2627.8	2640.5	2615.0
60°	5172.6	2978.6	2729.8	2704.3	2544.9	2602.3	2615.0	2532.1	2347.1	2359.9	2334.4
62.5°	2940.3	2544.9	2385.4	2347.1	2315.3	2366.3	2366.3	2257.9	2098.4	2111.2	2085.6
65°	2500.2	2359.9	2130.3	2123.9	2111.2	2123.9	2072.9	1958.1	1817.8	1760.4	1766.7
67.5°	2270.6	2181.3	1958.1	1900.7	1862.4	1856.0	1760.4	1651.9	1588.1	1537.1	1530.7
70°	1990.0	1919.8	1754.0	1677.4	1639.2	1549.9	1454.2	1384.0	1294.8	1269.2	1294.8
72.5°	1575.4	1569.0	1505.2	1422.3	1339.4	1269.2	1186.3	1090.7	1007.7	988.6	944.0
75°	1090.7	1103.4	1116.2	1103.4	1033.3	944.0	848.3	771.8	669.7	612.3	599.5
77.5°	714.3	733.5	752.6	727.1	682.5	599.5	535.8	440.1	363.6	318.9	312.5
80°	523.0	548.5	561.3	542.1	491.1	427.3	357.2	280.6	223.2	185.0	185.0
82.5°	401.8	427.3	440.1	408.2	357.2	306.1	255.1	197.7	153.1	121.2	114.8
85°	140.3	133.9	159.5	165.8	197.7	185.0	153.1	114.8	89.3	63.8	57.4
87.5°	38.3	38.3	44.6	44.6	38.3	31.9	31.9	31.9	25.5	19.1	19.1
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)