

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: P530554

Luminaire Tested: **GALN-SA5D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30271 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

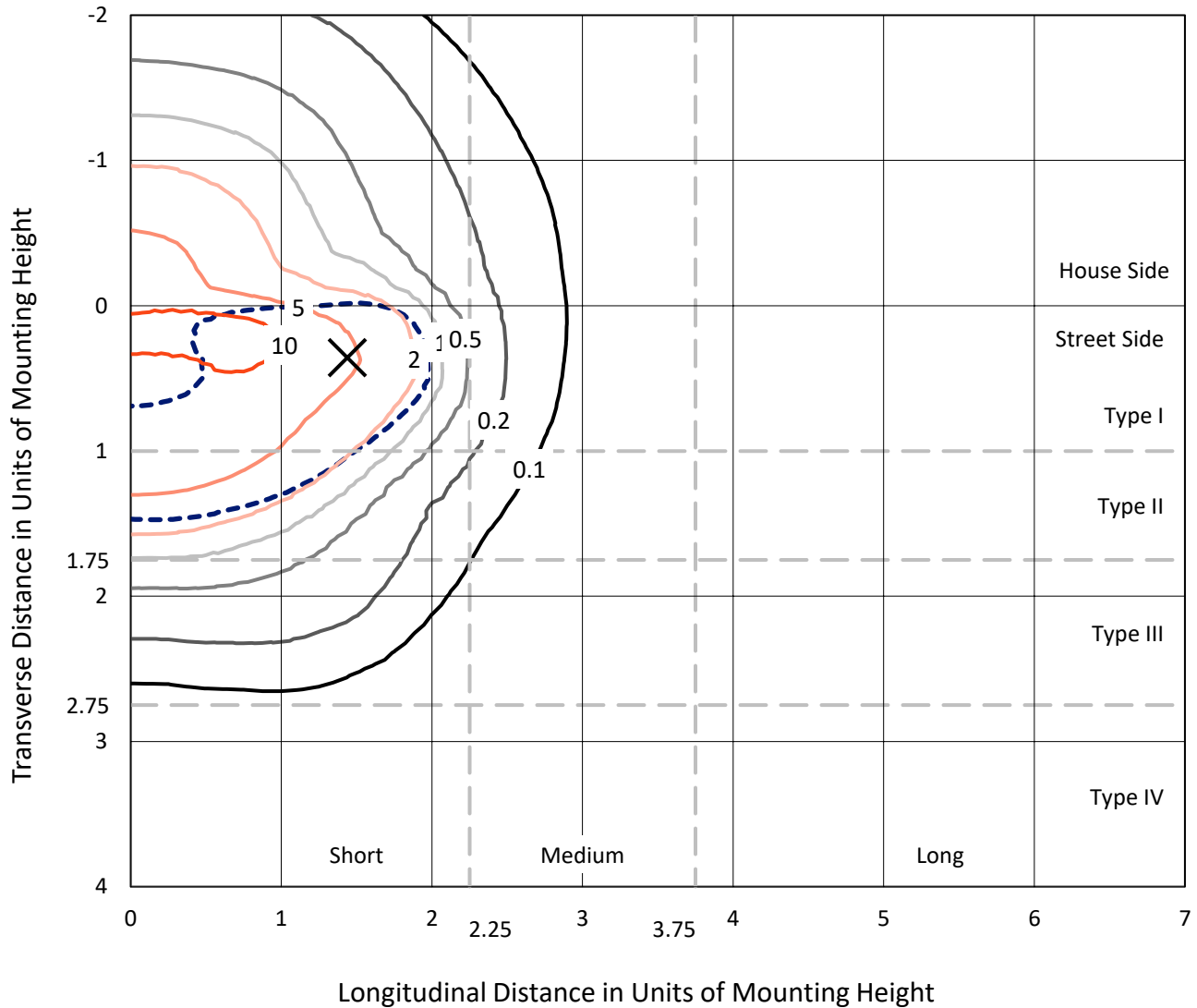
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

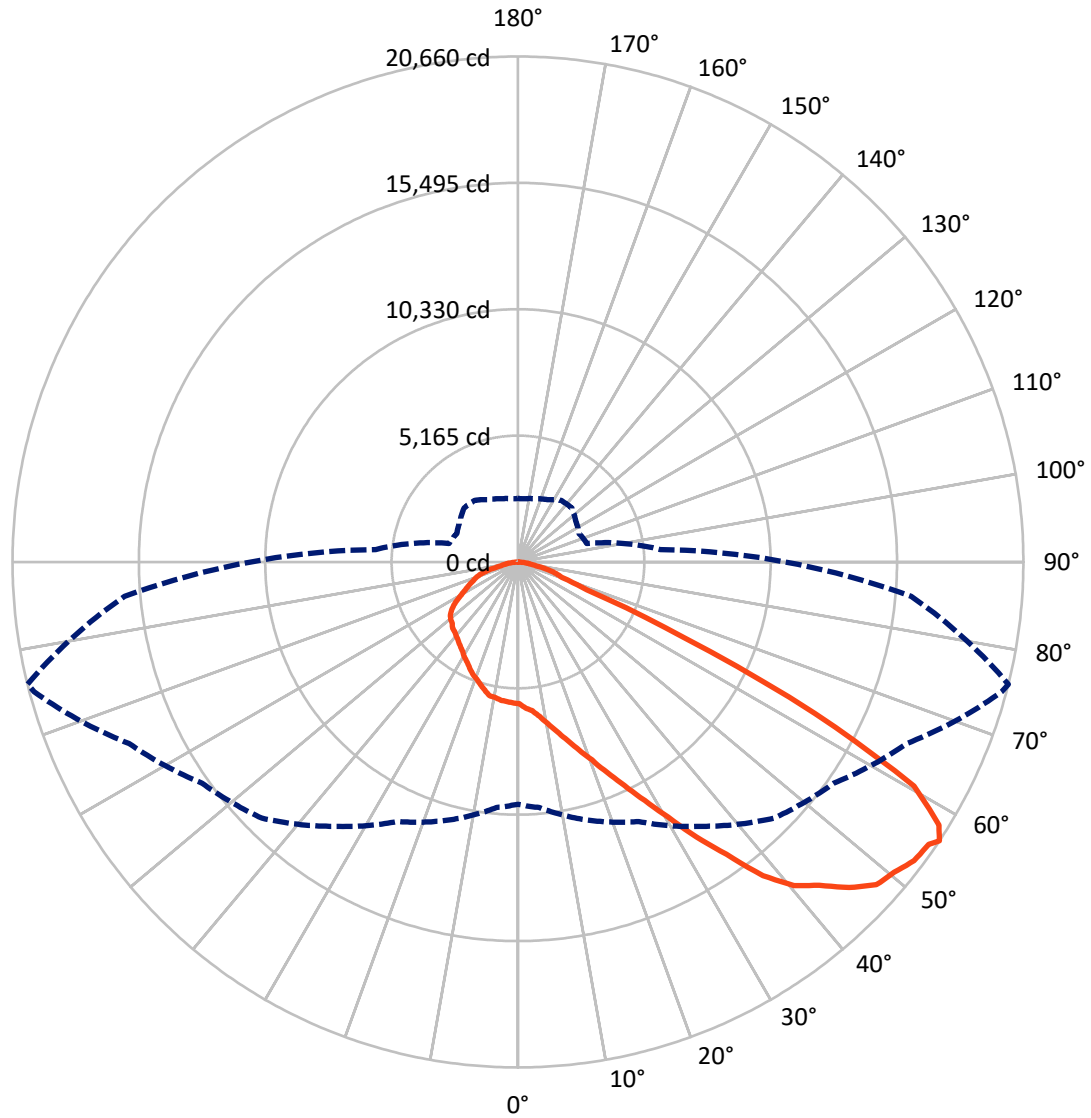
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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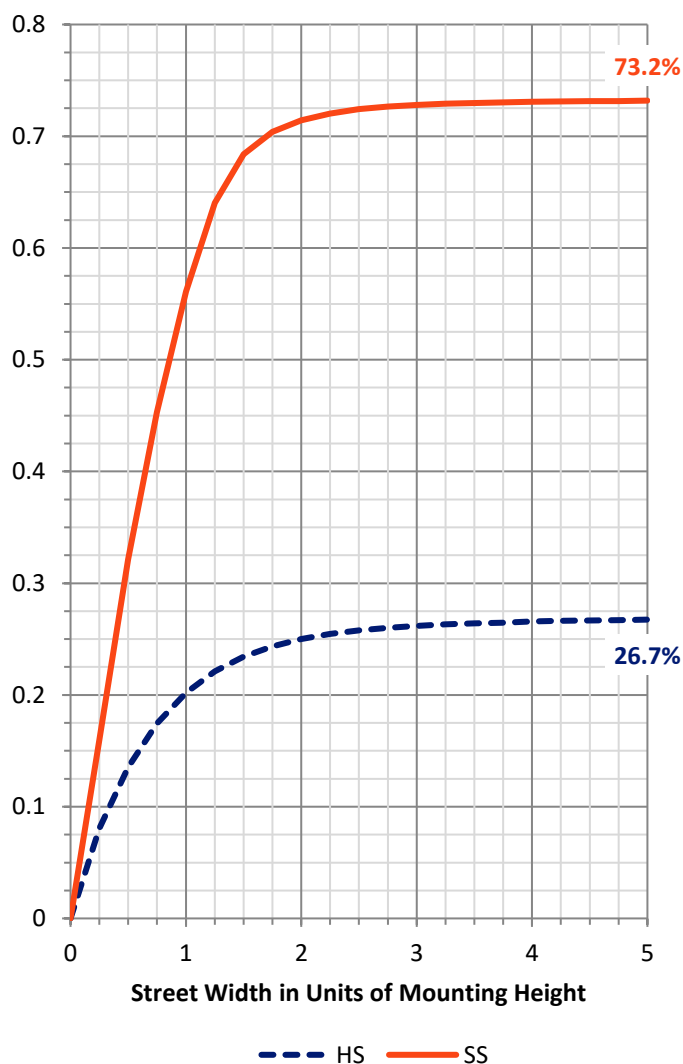
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8139.0	0.0	8139.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	22132.0	0.0	22132.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	30271.0	0.0	30271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	1.9
10°-20°	1804.3	6.0
20°-30°	3155.6	10.4
30°-40°	4940.7	16.3
40°-50°	7187.3	23.7
50°-60°	7899.3	26.1
60°-70°	3525.9	11.6
70°-80°	1018.4	3.4
80°-90°	165.2	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°	30271.0	100.0
0°-180°	30271.0	100.0

Coefficient of Utilization



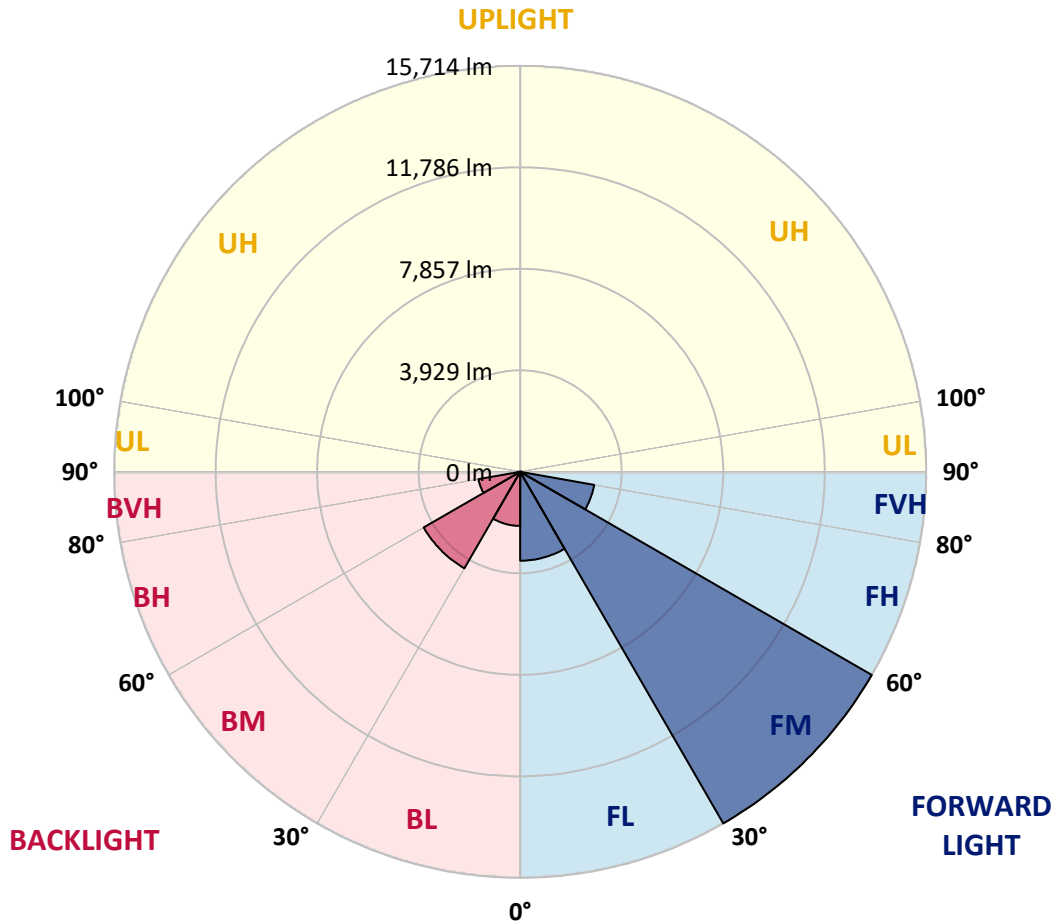
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3440.0	11.4			
FM (30°-60°)	15714.2	51.9			
FH (60°-80°)	2906.7	9.6			G2/5000
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	2094.3	6.9	B3/2500		
BM (30°-60°)	4313.0	14.2	B3/5000		
BH (60°-80°)	1637.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	94.1	0.3			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°	75°	76°	85°
0°	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0
2.5°	6380.6	6278.6	6270.7	6243.2	6258.9	6188.3	6113.7	6015.6	5913.6	5976.4	5827.3
5°	6827.9	6690.6	6745.5	6651.3	6663.1	6568.9	6415.9	6302.1	6176.5	6102.0	5996.0
7.5°	6984.9	6996.7	7035.9	7020.2	6941.7	6941.7	6839.7	6639.6	6419.8	6376.7	6200.1
10°	7196.8	7200.7	7157.6	7169.3	7279.2	7228.2	7137.9	7051.6	6769.1	6718.1	6404.1
12.5°	7271.4	7200.7	7271.4	7334.1	7463.6	7534.3	7514.6	7451.9	7149.7	7114.4	6655.3
15°	7283.1	7240.0	7298.8	7440.1	7553.9	7852.1	8001.2	7958.1	7557.8	7561.7	6937.8
17.5°	7228.2	7287.0	7310.6	7432.2	7695.2	7973.8	8405.4	8464.3	8134.7	8083.6	7294.9
20°	7302.7	7259.6	7291.0	7400.8	7750.1	8185.7	8750.7	9139.2	8676.2	8640.9	7663.8
22.5°	7589.2	7530.3	7522.5	7593.1	7844.3	8295.5	9115.7	9814.2	9335.4	9355.0	8122.9
25°	7812.9	7844.3	7816.8	7812.9	7969.8	8460.4	9598.3	10618.6	10230.1	10116.3	8664.4
27.5°	8197.4	8272.0	8217.1	8291.6	8256.3	8707.6	9943.7	11509.4	11195.4	11042.4	9154.9
30°	8731.1	8770.4	8719.3	8719.3	8613.4	9052.9	10257.6	12439.4	12309.9	12101.9	9731.8
32.5°	9433.5	9492.4	9390.4	9331.5	9315.8	9566.9	10822.7	13357.6	13577.4	13400.8	10497.0
35°	10363.5	10328.2	10206.6	10151.6	9939.7	10355.7	11662.4	14413.2	14990.1	14676.1	11423.0
37.5°	11183.7	11128.7	11120.9	10814.8	10865.8	11207.2	12376.6	15213.7	16359.6	16269.3	12400.1
40°	11948.9	11999.9	12082.3	11909.6	11831.2	12207.9	13208.5	15825.9	17423.0	17387.7	13153.6
42.5°	12769.0	12721.9	12867.1	12721.9	12604.2	13137.9	14111.1	16249.7	18356.9	18066.5	13942.3
45°	13958.0	13808.9	13859.9	13871.7	13785.4	13981.6	14483.8	16555.8	19012.2	18980.9	14519.2
47.5°	14950.8	14954.7	14868.4	14801.7	14538.8	14735.0	14899.8	16748.0	19765.7	19714.7	14742.8
50°	15319.7	15268.7	15519.8	15665.0	15680.7	15280.4	15225.5	16854.0	20162.0	19938.3	14966.5
52.5°	13993.3	14040.4	14436.8	15300.1	15798.4	15841.6	15606.1	17073.7	20322.9	20275.8	15147.0
55°	11262.2	11489.8	12141.2	13137.9	14319.0	15617.9	16018.2	17301.3	20409.2	20370.0	15947.5
56°	9900.5	10077.1	10924.7	11705.6	13188.9	14805.6	15759.2	17544.6	20475.9	20660.4	16135.9
57.5°	7969.8	8173.9	8782.1	9669.0	11419.1	13259.5	15045.0	17246.4	20216.9	20287.6	16273.2
60°	4983.6	5003.2	5733.1	6317.8	7550.0	9347.2	11481.9	15005.7	18710.1	18608.1	14617.3
62.5°	3268.8	3272.7	3935.9	4414.6	4975.8	5387.8	6757.3	9951.5	13805.0	13624.5	10406.7
65°	2295.6	2346.6	2860.7	3500.3	3727.9	3512.1	3468.9	5246.5	7710.9	7451.9	5591.8
67.5°	1679.5	1683.4	2138.6	2825.3	3155.0	2672.3	2170.0	2562.4	3052.9	3045.1	2589.9
70°	1110.5	1157.6	1506.9	2111.2	2487.9	2146.5	1773.7	1832.6	1942.4	1942.4	1926.7
72.5°	647.5	690.6	922.2	1338.1	1397.0	1342.0	1404.8	1569.6	1640.3	1636.3	1616.7
75°	368.9	388.5	439.5	557.2	694.6	820.1	1032.0	1189.0	1259.6	1302.8	1251.8
77.5°	215.8	227.6	259.0	317.9	361.0	443.4	561.1	671.0	765.2	753.4	761.3
80°	113.8	113.8	145.2	188.4	251.1	313.9	372.8	435.6	486.6	498.4	510.1
82.5°	66.7	70.6	94.2	137.3	180.5	223.7	286.5	329.6	376.7	380.6	388.5
85°	35.3	39.2	58.9	90.3	121.6	137.3	141.3	133.4	145.2	137.3	157.0
87.5°	11.8	11.8	19.6	15.7	15.7	19.6	23.5	23.5	31.4	31.4	31.4
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°	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0	5792.0
2.5°	5823.4	5823.4	5756.7	5631.1	5611.5	5560.4	5513.4	5509.4	5474.1	5442.7	5427.0
5°	5933.2	5811.6	5713.5	5599.7	5466.3	5403.5	5332.8	5254.4	5223.0	5254.4	5250.4
7.5°	6058.8	5956.8	5662.5	5450.6	5297.5	5234.7	5156.3	5073.9	5081.7	5081.7	5026.8
10°	6180.5	6043.1	5572.2	5301.5	5077.8	5030.7	4987.5	5018.9	5058.2	5066.0	5030.7
12.5°	6384.5	6074.5	5529.1	5152.3	5011.1	4909.0	4936.5	5022.8	5105.3	5081.7	5109.2
15°	6537.5	6102.0	5332.8	4999.3	4822.7	4869.8	4967.9	5026.8	5164.1	5148.4	5175.9
17.5°	6686.7	6117.7	5140.6	4795.2	4720.7	4850.2	4924.7	5093.5	5136.6	5230.8	5266.1
20°	6992.7	6149.1	4944.4	4669.7	4646.1	4795.2	4924.7	5003.2	5097.4	5179.8	5179.8
22.5°	7149.7	6133.4	4814.9	4504.9	4579.4	4673.6	4791.3	4924.7	4924.7	5003.2	5007.1
25°	7345.9	6070.6	4610.8	4426.4	4481.3	4571.6	4705.0	4657.9	4708.9	4708.9	4771.7
27.5°	7569.6	5937.2	4434.2	4285.1	4395.0	4493.1	4512.7	4481.3	4422.5	4414.6	4391.1
30°	7750.1	5772.3	4304.7	4238.0	4328.3	4383.2	4320.4	4253.7	4151.7	4143.8	4088.9
32.5°	7997.3	5568.3	4143.8	4120.3	4222.3	4226.3	4206.6	4104.6	3955.5	3892.7	3829.9
35°	8413.3	5450.6	4022.2	4057.5	4088.9	4077.1	4041.8	3931.9	3782.8	3755.4	3731.8
37.5°	8719.3	5364.2	3896.6	3939.8	3967.3	3983.0	3877.0	3755.4	3759.3	3704.3	3688.7
40°	9064.7	5309.3	3794.6	3814.2	3818.1	3869.2	3739.7	3680.8	3708.3	3673.0	3696.5
42.5°	9508.1	5325.0	3688.7	3673.0	3747.5	3727.9	3665.1	3586.6	3602.3	3496.4	3512.1
45°	9743.5	5431.0	3625.9	3555.2	3637.6	3633.7	3551.3	3476.7	3382.6	3178.5	3186.4
47.5°	9900.5	5458.4	3476.7	3429.7	3516.0	3567.0	3472.8	3300.2	3166.7	3021.6	2986.2
50°	10061.4	5509.4	3406.1	3308.0	3343.3	3465.0	3347.3	3182.4	3052.9	2923.5	2943.1
52.5°	10202.7	5607.5	3268.8	3123.6	3186.4	3319.8	3257.0	3056.9	2915.6	2809.7	2778.3
55°	10830.5	5827.3	3037.3	2848.9	2998.0	3166.7	3131.4	2888.1	2735.1	2680.2	2672.3
56°	10928.6	5835.1	2915.6	2754.7	2892.1	3115.7	3072.6	2813.6	2676.2	2589.9	2593.8
57.5°	10944.3	5741.0	2742.9	2668.4	2786.1	3041.2	2986.2	2754.7	2566.4	2487.9	2464.3
60°	9629.7	4481.3	2527.1	2480.0	2617.4	2813.6	2794.0	2593.8	2381.9	2291.7	2334.8
62.5°	6565.0	3284.5	2358.4	2350.5	2421.2	2613.4	2562.4	2381.9	2205.3	2146.5	2119.0
65°	3822.1	2491.8	2193.6	2162.2	2221.0	2323.1	2358.4	2170.0	1985.6	1946.4	1934.6
67.5°	2256.4	2060.2	1981.7	1930.7	1911.0	1973.8	2001.3	1891.4	1707.0	1652.0	1699.1
70°	1887.5	1832.6	1836.5	1750.1	1703.1	1659.9	1636.3	1538.2	1385.2	1314.6	1295.0
72.5°	1628.5	1605.0	1589.3	1510.8	1467.6	1369.5	1267.5	1169.4	1055.6	996.7	1000.6
75°	1243.9	1236.1	1243.9	1204.7	1130.1	1051.7	957.5	831.9	745.6	671.0	686.7
77.5°	741.7	765.2	777.0	761.3	729.9	659.2	600.4	518.0	435.6	376.7	368.9
80°	510.1	529.8	549.4	529.8	498.4	447.3	384.6	321.8	262.9	231.5	223.7
82.5°	388.5	408.1	419.9	400.3	361.0	306.1	262.9	219.7	172.7	141.3	133.4
85°	141.3	160.9	157.0	188.4	204.1	196.2	168.7	129.5	98.1	70.6	66.7
87.5°	39.2	35.3	39.2	39.2	39.2	35.3	31.4	31.4	31.4	19.6	15.7
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)