

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: P533096

Luminaire Tested: **GALN-SA8C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533096
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-SA8C-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 43740 lumens
Efficiency: N/A
Efficacy: 102.0 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

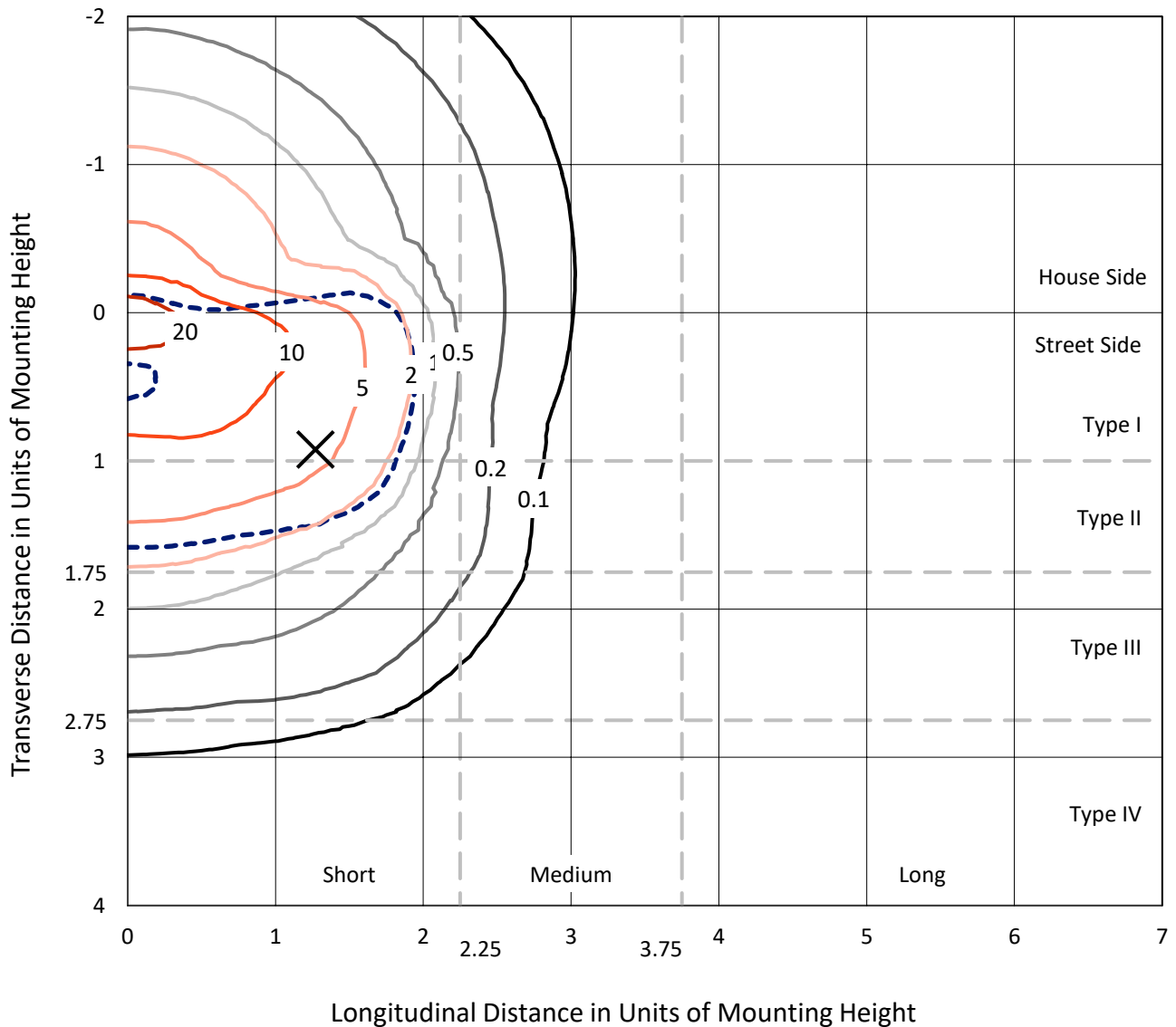
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

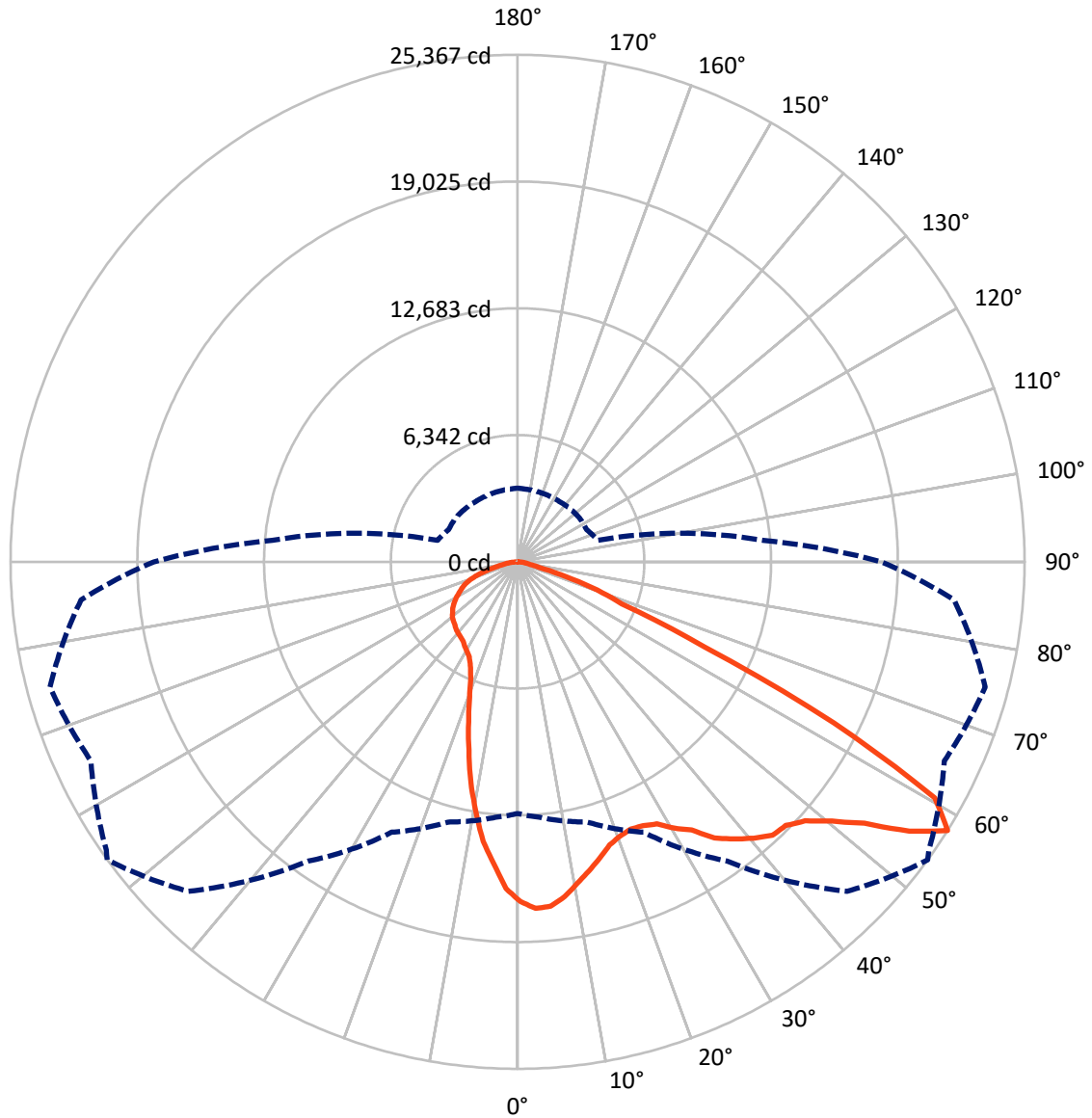
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.2 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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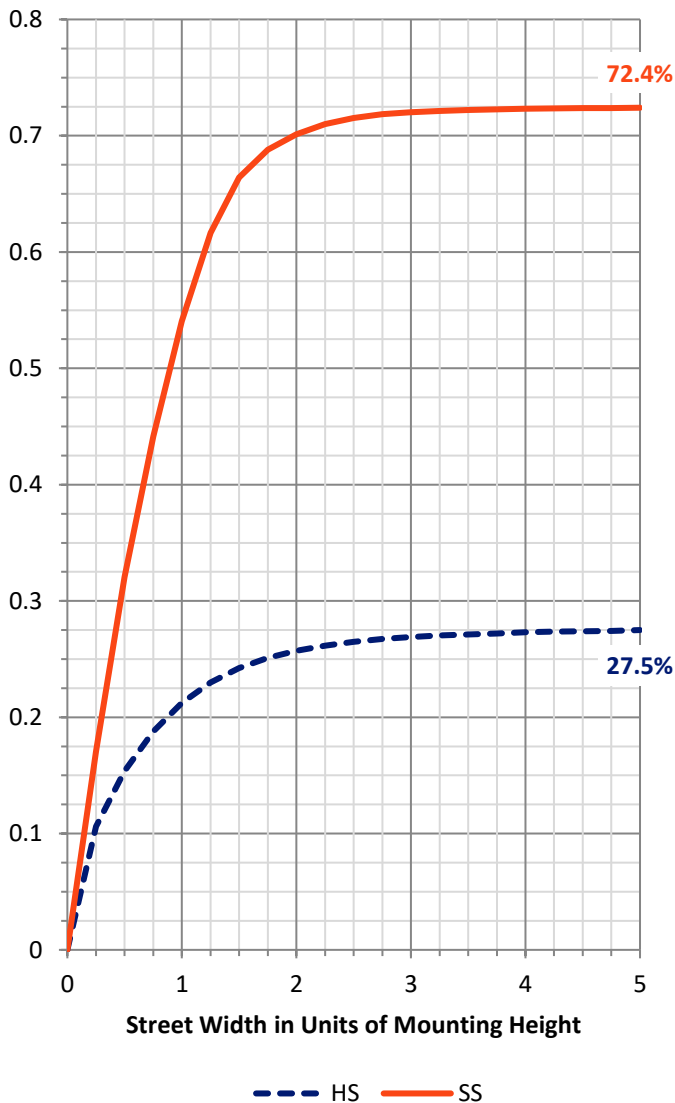
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12100.9	0.0	12100.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	31639.1	0.0	31639.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	43740.0	0.0	43740.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1466.2	3.4
10°-20°	3394.8	7.8
20°-30°	4769.7	10.9
30°-40°	6668.1	15.2
40°-50°	9027.3	20.6
50°-60°	10995.6	25.1
60°-70°	5727.0	13.1
70°-80°	1467.5	3.4
80°-90°	223.9	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°	43740.0	100.0
0°-180°	43740.0	100.0



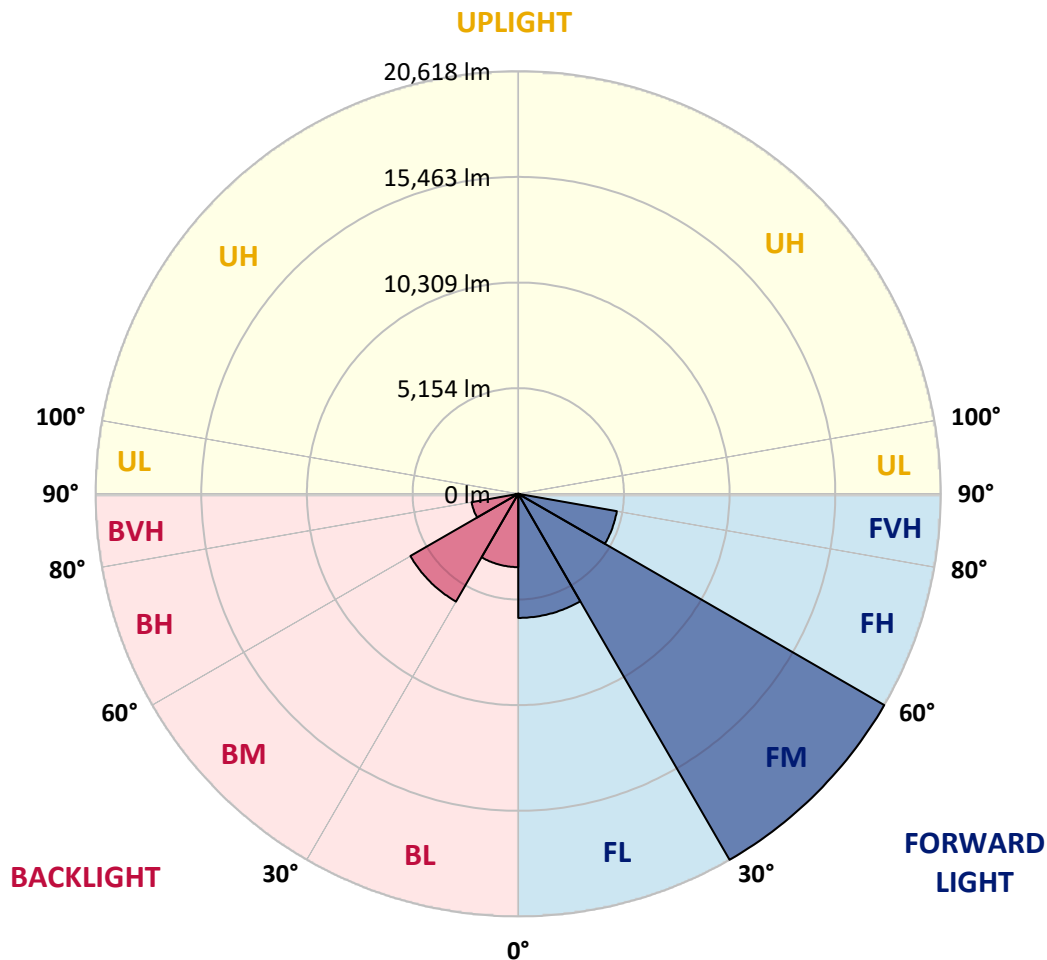
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6054.2	13.8			
FM (30°-60°)	20617.7	47.1			
FH (60°-80°)	4882.6	11.2			G2/5000
FVH (80°-90°)	84.6	0.2			G1/100
BL (0°-30°)	3576.4	8.2	B4/5000		
BM (30°-60°)	6073.3	13.9	B4/8500		
BH (60°-80°)	2311.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	139.3	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°	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2
2.5°	17484.7	17417.3	17428.5	17518.5	17406.0	17361.1	17361.1	17141.8	17158.7	17006.9	16967.5
5°	17079.9	16922.5	17029.3	17164.3	17186.8	17231.7	17304.8	17248.6	17091.2	16928.1	16663.9
7.5°	16023.0	16163.5	16202.9	16298.5	16500.9	16686.4	16916.9	16759.5	16753.9	16590.8	16433.4
10°	15095.3	15011.0	15224.7	15365.2	15702.5	16011.7	16365.9	16349.1	16433.4	16247.9	15978.0
12.5°	14173.3	14105.9	14207.1	14527.5	14999.8	15449.5	15871.2	15713.8	16163.5	16129.8	15550.7
15°	13195.1	13245.7	13391.8	13689.8	14308.3	14848.0	15382.1	15387.7	15786.9	15921.8	15145.9
17.5°	12509.2	12453.0	12638.5	13082.6	13633.6	14280.1	14887.3	15011.0	15623.8	15702.5	15022.3
20°	11997.6	12076.3	12318.0	12542.9	13178.2	13959.7	14645.6	14690.6	15590.1	15803.7	14825.5
22.5°	11873.9	11828.9	11907.6	12273.0	12795.9	13644.8	14516.3	14684.9	15584.5	15770.0	14454.4
25°	11744.6	11890.7	11885.1	12250.6	12632.9	13391.8	14623.1	14808.6	15882.4	15944.3	14505.0
27.5°	12036.9	12020.1	12177.5	12205.6	12677.8	13459.3	14848.0	14988.5	16377.2	16326.6	14544.4
30°	12329.3	12244.9	12340.5	12672.2	12891.5	13847.2	15466.4	15455.2	17018.1	16984.4	14668.1
32.5°	12689.1	12649.7	12711.6	13003.9	13375.0	14364.5	15989.3	16321.0	17670.3	17883.9	15095.3
35°	12756.5	12919.6	13065.8	13459.3	13987.8	15202.2	16973.1	17248.6	18423.6	19092.7	15910.5
37.5°	13183.8	13245.7	13588.6	14285.8	14769.3	16321.0	17597.2	17771.5	19109.5	19868.5	16770.7
40°	13639.2	13712.3	14229.5	14960.4	15623.8	17051.8	18181.9	18238.1	19328.8	20464.5	17332.9
42.5°	14257.7	14325.1	14836.7	15753.1	16641.4	17675.9	18699.1	18761.0	19311.9	21150.3	18226.9
45°	14898.6	15061.6	15663.2	16703.3	17501.6	18406.8	18817.2	19070.2	19469.3	21763.2	18952.1
47.5°	15798.1	15949.9	16444.6	17462.2	18395.5	19047.7	19362.5	19609.9	19846.0	22297.3	19418.7
50°	16753.9	16782.0	17383.5	18305.6	18991.5	19772.9	20380.1	20464.5	20340.8	22915.7	20211.5
52.5°	17456.6	17546.6	18013.2	18912.8	19936.0	20897.4	21729.4	21819.4	21577.6	23146.2	20481.3
55°	16292.9	16242.3	17001.2	18198.7	20571.3	22572.7	23781.5	23849.0	22477.2	23860.2	21364.0
57.5°	12593.5	12835.3	13481.8	14926.7	18277.5	23314.9	25366.9	25125.2	23556.6	24220.0	21926.2
60°	9152.8	9096.6	9529.5	10496.5	13774.2	20093.4	23983.9	24231.3	22673.9	21830.6	18080.7
62.5°	7454.9	7376.2	7409.9	7443.7	8888.5	13335.6	17754.6	17749.0	17462.2	15691.3	12194.3
65°	5959.4	6145.0	6161.8	6414.8	6600.3	7966.5	10288.4	10839.4	9439.5	7741.6	5616.5
67.5°	4492.1	4424.6	4649.5	5549.0	5897.6	5751.4	5616.5	5678.3	4036.7	2912.2	2743.6
70°	2648.0	2619.9	2889.8	3868.0	4857.5	4570.8	4233.4	4239.1	2771.7	2035.2	2265.7
72.5°	1450.5	1444.9	1501.1	1962.1	2760.5	2867.3	2541.2	2619.9	1652.9	1647.3	1771.0
75°	809.6	792.7	775.9	865.8	995.1	1051.3	1073.8	1085.1	1135.7	1270.6	1321.2
77.5°	298.0	286.7	286.7	331.7	421.7	528.5	669.0	680.3	804.0	922.0	972.6
80°	101.2	112.4	151.8	208.0	281.1	376.7	455.4	466.6	567.8	646.5	663.4
82.5°	61.8	67.5	101.2	146.2	202.4	264.2	337.3	342.9	421.7	472.3	494.7
85°	28.1	33.7	56.2	90.0	129.3	174.3	179.9	179.9	174.3	179.9	168.7
87.5°	0.0	0.0	11.2	11.2	11.2	16.9	22.5	16.9	28.1	33.7	33.7
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°	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2	17001.2
2.5°	16849.4	16787.6	16596.4	16427.8	16377.2	16152.3	15820.6	15860.0	15618.2	15730.6	15612.6
5°	16618.9	16410.9	15921.8	15713.8	15168.4	14921.1	14752.4	14330.7	14134.0	14094.6	13925.9
7.5°	16028.6	15899.3	15286.5	14724.3	14145.2	13650.5	13015.2	12582.3	12273.0	12188.7	11941.3
10°	15562.0	15275.3	14426.3	13571.8	12745.3	11885.1	11058.7	10412.1	10097.3	9731.9	9608.2
12.5°	15101.0	14668.1	13521.2	12424.8	11356.6	10271.6	9270.8	8483.8	7797.9	7634.8	7578.6
15°	14814.2	14060.9	12711.6	11390.4	9872.4	8455.6	7454.9	6937.7	6516.0	6341.7	6465.4
17.5°	14437.6	13560.5	11935.7	10176.0	8506.2	7201.9	6364.2	6043.8	5892.0	5908.8	5858.2
20°	13965.3	13088.3	10918.1	9074.1	7286.2	6246.2	5768.3	5650.2	5672.7	5712.1	5695.2
22.5°	13628.0	12514.8	10181.6	7949.7	6296.8	5717.7	5520.9	5436.6	5509.7	5543.4	5515.3
25°	13369.4	12025.7	9287.7	6954.5	5723.3	5419.7	5329.8	5324.1	5436.6	5481.5	5453.4
27.5°	13133.2	11570.3	8399.4	6195.6	5341.0	5189.2	5161.1	5228.6	5301.6	5346.6	5386.0
30°	12992.7	11221.7	7567.3	5560.3	5149.8	5076.8	5026.2	5088.0	5127.4	5172.3	5149.8
32.5°	13127.6	10974.3	6763.4	5200.4	4992.4	4919.3	4986.8	4947.4	5014.9	5054.3	4992.4
35°	13549.3	10755.1	6189.9	5009.3	4812.5	4840.6	4851.9	4835.0	4863.1	4829.4	4902.5
37.5°	13965.3	10676.4	5661.5	4846.3	4728.2	4728.2	4716.9	4683.2	4739.4	4728.2	4761.9
40°	14493.8	10727.0	5211.7	4672.0	4649.5	4638.2	4593.3	4587.6	4565.1	4570.8	4582.0
42.5°	14954.8	10839.4	4953.1	4559.5	4576.4	4598.9	4514.5	4447.1	4475.2	4419.0	4419.0
45°	15443.9	10940.6	4722.6	4480.8	4463.9	4458.3	4390.9	4351.5	4329.0	4334.6	4385.2
47.5°	16214.1	11086.8	4548.3	4374.0	4385.2	4300.9	4284.0	4233.4	4255.9	4289.7	4295.3
50°	16759.5	11396.0	4413.4	4250.3	4289.7	4233.4	4132.2	4109.8	4109.8	4166.0	4154.7
52.5°	17141.8	11828.9	4284.0	4115.4	4132.2	4087.3	4053.5	4002.9	3969.2	4047.9	4087.3
55°	18311.2	12548.5	4250.3	4002.9	3997.3	3952.3	3890.5	3839.9	3823.0	3834.3	3913.0
57.5°	18198.7	12323.6	4143.5	3806.2	3794.9	3733.1	3671.2	3654.4	3648.7	3660.0	3682.5
60°	14774.9	9102.2	3699.3	3581.3	3564.4	3553.2	3491.3	3423.9	3390.1	3423.9	3395.7
62.5°	9776.8	6094.4	3260.8	3311.4	3322.7	3294.6	3193.4	3125.9	3137.1	3176.5	3114.6
65°	4801.3	3581.3	2957.2	3092.2	3103.4	3024.7	2929.1	2850.4	2811.1	2844.8	2816.7
67.5°	2743.6	2738.0	2709.9	2850.4	2844.8	2766.1	2614.3	2546.8	2479.3	2490.6	2473.7
70°	2327.6	2372.5	2428.7	2513.1	2507.5	2417.5	2237.6	2187.0	2091.4	2080.2	2052.1
72.5°	1832.8	1911.5	2035.2	2097.0	2046.4	1934.0	1815.9	1731.6	1647.3	1596.7	1613.5
75°	1360.5	1473.0	1540.5	1579.8	1501.1	1439.3	1343.7	1242.5	1141.3	1096.3	1079.4
77.5°	989.5	1023.2	1085.1	1113.2	1062.6	1000.7	944.5	843.3	747.7	685.9	669.0
80°	691.5	714.0	759.0	759.0	759.0	730.9	657.8	556.6	494.7	438.5	427.3
82.5°	483.5	506.0	551.0	528.5	522.9	489.1	444.1	365.4	298.0	258.6	247.4
85°	168.7	185.5	224.9	269.9	286.7	281.1	253.0	202.4	157.4	129.3	118.1
87.5°	39.4	39.4	45.0	39.4	39.4	45.0	39.4	39.4	39.4	28.1	22.5
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)