

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: P530556

Luminaire Tested: **GALN-SA5D-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31713 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

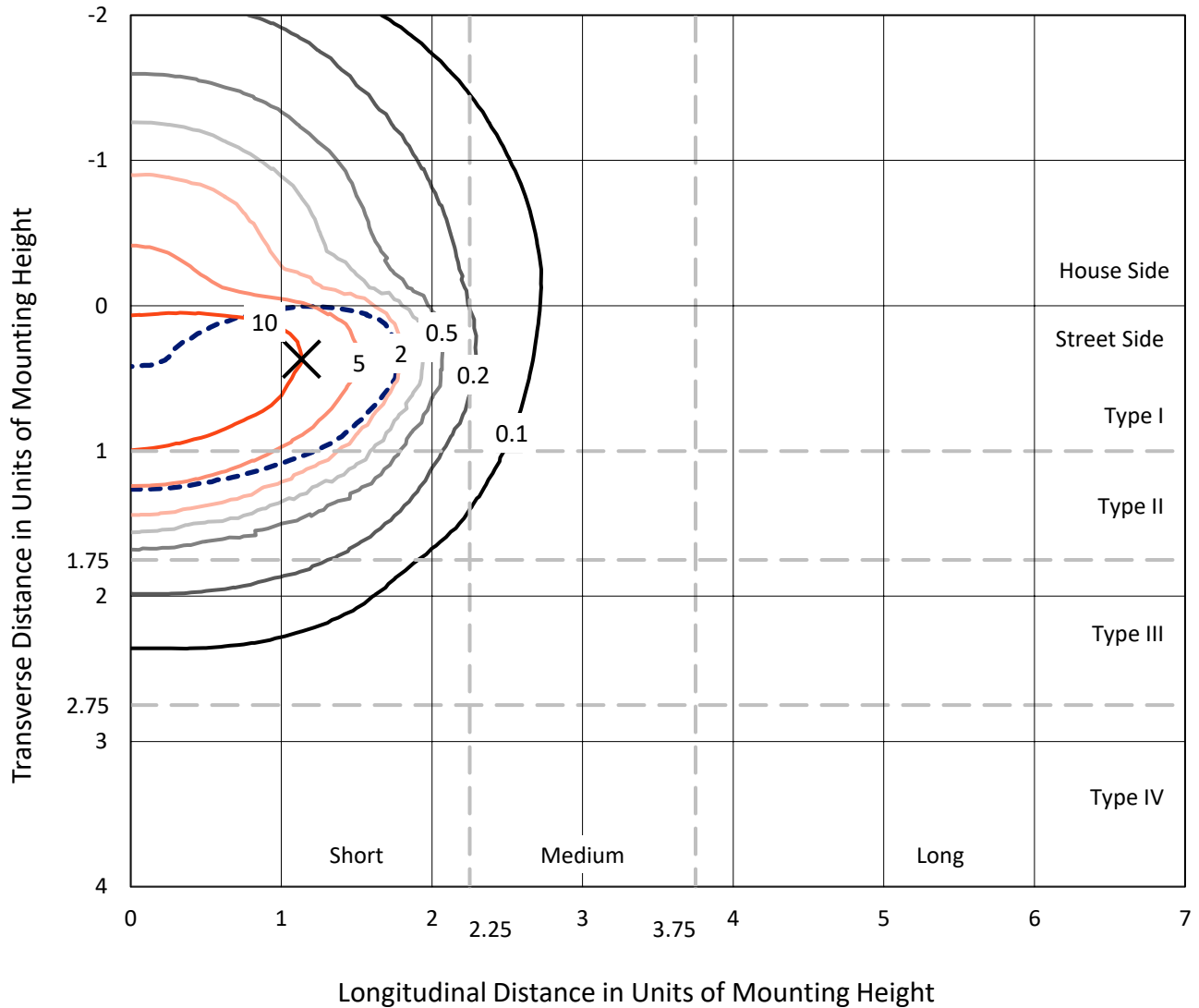
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

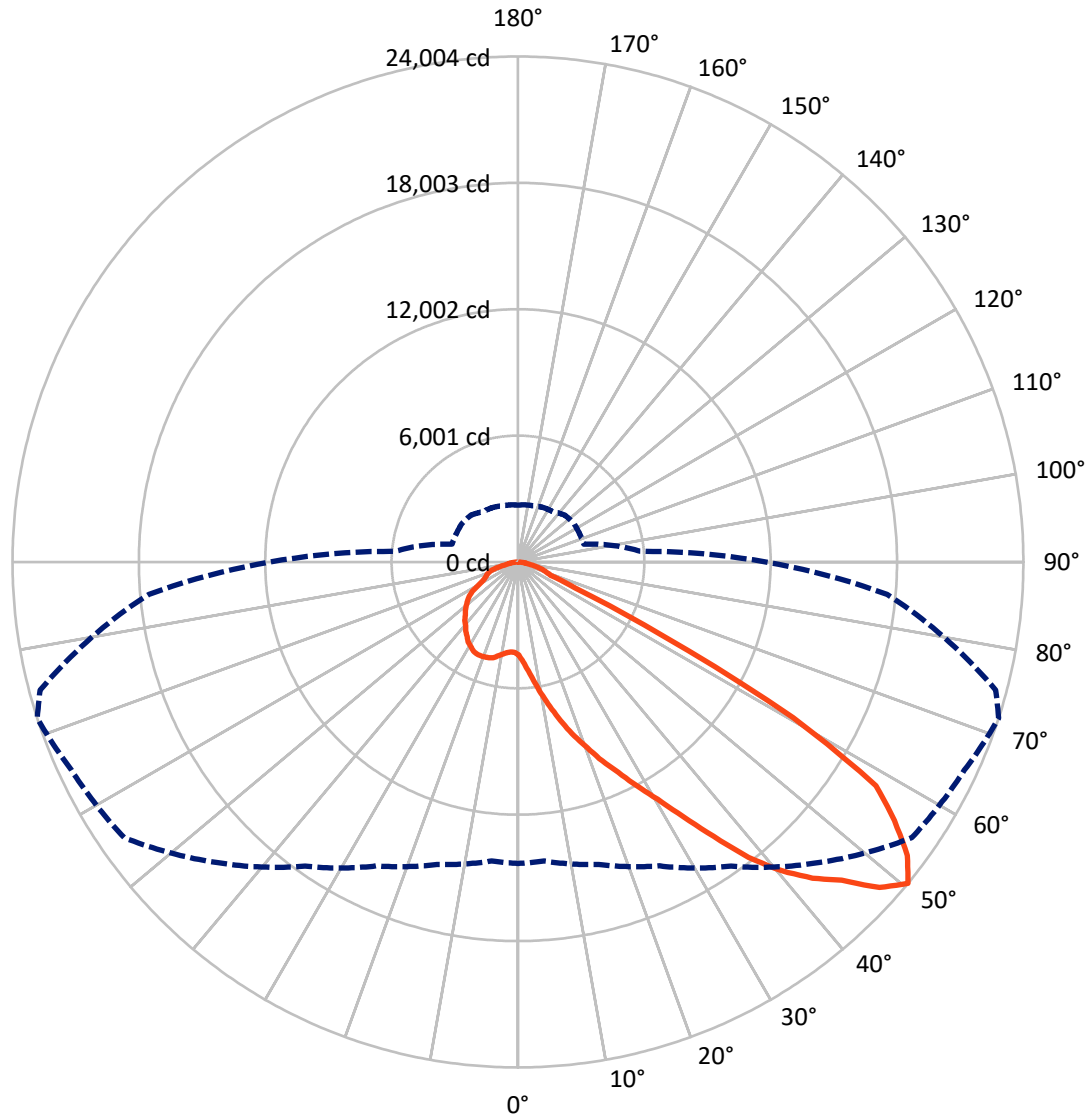
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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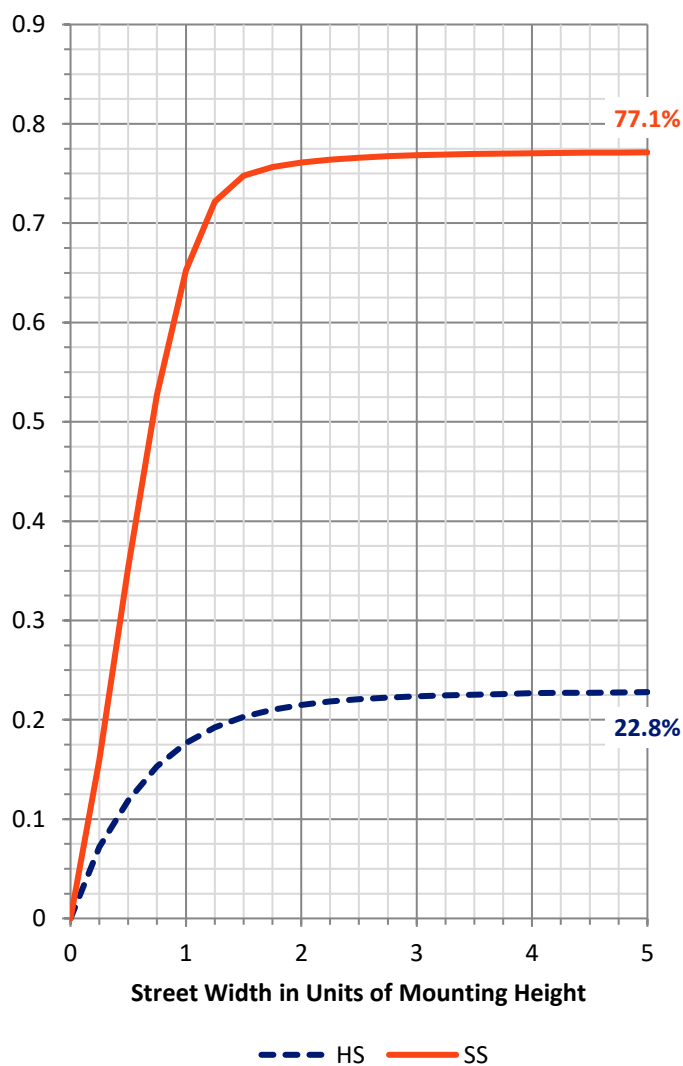
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7265.6	0.0	7265.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24447.4	0.0	24447.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	31713.0	0.0	31713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.3	1.6
10°-20°	1941.3	6.1
20°-30°	3764.0	11.9
30°-40°	6235.6	19.7
40°-50°	8724.9	27.5
50°-60°	7360.6	23.2
60°-70°	2243.5	7.1
70°-80°	787.1	2.5
80°-90°	136.8	0.4
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°	31713.0	100.0
0°-180°	31713.0	100.0

Coefficient of Utilization



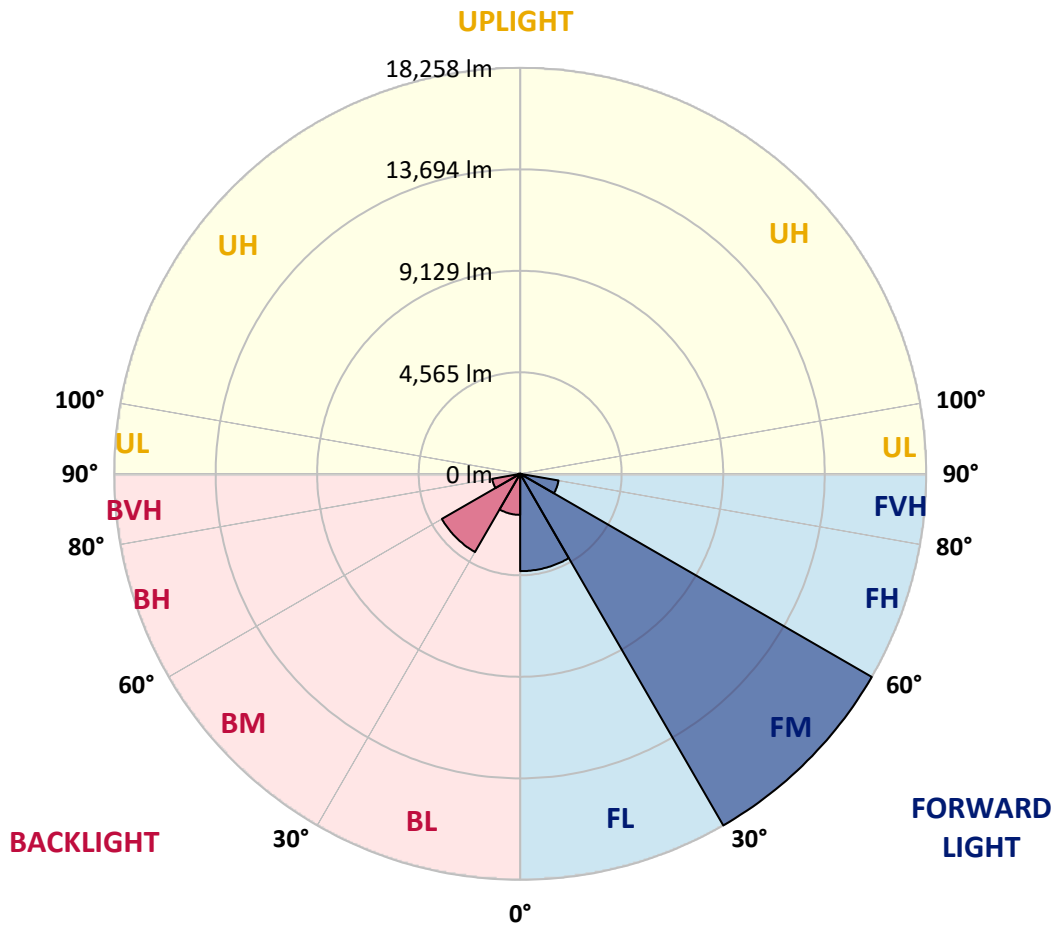
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4377.5	13.8			
FM (30°-60°)	18258.0	57.6			
FH (60°-80°)	1750.5	5.5			G1/1800
FVH (80°-90°)	61.3	0.2			G1/100
BL (0°-30°)	1847.0	5.8	B3/2500		
BM (30°-60°)	4063.1	12.8	B3/5000		
BH (60°-80°)	1280.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	75.5	0.2			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°	72°	75°	85°
0°	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7
2.5°	5678.3	5643.0	5537.0	5501.7	5376.1	5148.5	5070.1	4838.5	4740.4	4650.2	4544.2
5°	7181.3	7016.5	7004.7	6804.6	6514.2	6345.4	5843.1	5505.6	5195.6	5038.7	4748.3
7.5°	8138.8	8142.7	8142.7	7977.9	7746.4	7318.6	6867.3	6259.1	5792.1	5560.6	5066.1
10°	9049.2	8970.7	8927.5	8911.8	8754.9	8338.9	7856.2	7102.8	6463.2	6192.4	5305.5
12.5°	9692.8	9626.1	9724.2	9673.1	9559.3	9288.6	8833.4	7974.0	7173.4	6808.5	5690.1
15°	9998.9	10045.9	10124.4	10265.7	10214.7	10112.7	9610.4	8868.7	7938.6	7526.6	6031.5
17.5°	10469.8	10340.3	10434.4	10611.0	10752.3	10705.2	10418.7	9516.2	8696.0	8189.8	6490.6
20°	10799.4	10724.8	10771.9	10976.0	11081.9	11348.8	11199.7	10363.8	9422.0	8888.3	7032.2
22.5°	11741.2	11631.3	11478.3	11509.7	11548.9	11737.3	11772.6	11293.8	10265.7	9700.6	7546.2
25°	12902.8	12800.7	12620.2	12435.8	12322.0	12286.7	12408.3	12023.7	11074.1	10489.4	8099.5
27.5°	14182.0	14009.4	13895.6	13514.9	13208.8	13161.8	13102.9	12894.9	12031.6	11399.8	8723.5
30°	15426.0	15288.7	15135.6	14527.4	14209.5	14158.5	13868.1	13927.0	13071.5	12369.1	9429.8
32.5°	16367.8	16379.6	16030.3	15571.2	15273.0	15002.2	14896.2	15065.0	14405.7	13840.6	10218.6
35°	17129.1	17164.4	16830.9	16414.9	16093.1	16281.5	16234.4	16312.9	15998.9	15308.3	11136.9
37.5°	17870.8	17694.2	17337.1	17137.0	16968.2	17278.2	17678.5	17745.2	17804.1	16991.8	12204.2
40°	17992.4	18008.1	17800.2	17941.4	17729.5	18196.5	19126.5	19040.2	19279.6	18569.3	13361.9
42.5°	17819.8	17855.1	17937.5	18137.6	18647.8	19208.9	20590.3	20237.1	20527.5	19895.7	14488.1
45°	17537.2	17392.0	17494.1	18255.4	19138.3	20386.2	21928.4	21653.7	21559.5	21029.8	15830.2
47.5°	16187.3	16336.4	16654.3	17592.2	18918.5	20590.3	22878.1	22815.3	23097.8	22725.0	17050.6
50°	14315.5	14256.6	14868.8	15924.4	17635.3	20190.0	22827.0	23396.1	24004.3	23486.3	17596.1
52.5°	10720.9	11034.8	11560.7	12871.4	15312.2	18008.1	21712.6	22662.2	23156.7	23046.8	17156.6
55°	6777.1	6871.3	7189.1	8747.0	10944.6	14452.8	18612.5	20813.9	21696.9	22108.9	16752.4
57.5°	3292.4	3115.8	3504.3	4756.1	6321.9	9720.2	14354.7	18129.8	20048.7	20794.3	15873.4
60°	1718.8	1785.5	1938.6	2385.9	3268.9	5046.5	8947.2	12082.6	15014.0	16159.8	12031.6
62.5°	1424.5	1448.0	1550.1	1773.7	2174.0	2903.9	4567.8	5890.2	7656.1	8688.2	6843.8
65°	1208.7	1220.4	1330.3	1479.4	1734.5	2044.5	2350.6	2460.5	2978.5	3056.9	2433.0
67.5°	1008.5	1020.3	1138.0	1279.3	1444.1	1526.5	1605.0	1597.1	1656.0	1632.5	1628.5
70°	777.0	788.8	910.4	1059.5	1141.9	1094.9	1338.2	1393.1	1416.6	1436.3	1467.6
72.5°	561.2	584.7	678.9	784.8	741.7	851.6	1102.7	1185.1	1216.5	1228.3	1267.5
75°	408.1	416.0	439.5	408.1	470.9	592.6	777.0	879.0	918.3	930.0	988.9
77.5°	180.5	184.4	188.4	235.5	302.2	368.9	463.1	545.5	600.4	616.1	631.8
80°	94.2	98.1	121.7	160.9	215.8	270.8	337.5	384.6	419.9	423.8	439.5
82.5°	58.9	62.8	86.3	113.8	153.0	200.1	247.2	286.5	313.9	317.9	321.8
85°	27.5	35.3	51.0	70.6	102.0	129.5	133.4	113.8	121.7	125.6	117.7
87.5°	7.8	11.8	15.7	11.8	15.7	15.7	19.6	23.5	23.5	23.5	27.5
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°	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7	4414.7
2.5°	4485.4	4450.0	4312.7	4261.7	4128.3	4151.8	4081.2	4077.2	4061.5	4057.6	4053.7
5°	4595.2	4485.4	4320.5	4195.0	4120.4	4112.6	4061.5	4061.5	4077.2	4089.0	4061.5
7.5°	4775.7	4650.2	4371.6	4253.8	4187.1	4175.3	4140.0	4112.6	4147.9	4136.1	4104.7
10°	4983.7	4764.0	4469.7	4367.6	4257.8	4230.3	4230.3	4242.1	4183.2	4202.8	4171.4
12.5°	5215.3	4920.9	4595.2	4477.5	4348.0	4332.3	4324.5	4238.1	4269.5	4253.8	4175.3
15°	5509.6	5101.5	4756.1	4556.0	4446.1	4375.5	4273.4	4257.8	4238.1	4198.9	4163.6
17.5°	5827.4	5297.7	4830.7	4579.5	4414.7	4363.7	4285.2	4202.8	4144.0	4151.8	4124.3
20°	6098.2	5478.2	4858.2	4603.1	4391.2	4293.1	4171.4	4120.4	4057.6	4053.7	4049.8
22.5°	6420.0	5721.5	4897.4	4540.3	4320.5	4218.5	4136.1	4045.8	4002.7	3947.7	3975.2
25°	6804.6	5815.7	4905.2	4505.0	4269.5	4089.0	4045.8	3947.7	3932.0	3853.6	3869.3
27.5°	7083.2	5866.7	4842.5	4395.1	4151.8	4014.5	3936.0	3865.3	3837.9	3779.0	3763.3
30°	7456.0	5945.2	4709.0	4257.8	4034.1	3881.0	3833.9	3818.2	3739.8	3677.0	3669.1
32.5°	7879.8	5996.2	4622.7	4116.5	3912.4	3794.7	3818.2	3743.7	3645.6	3590.6	3574.9
35°	8217.3	6015.8	4406.9	3955.6	3830.0	3755.5	3728.0	3712.3	3571.0	3520.0	3480.8
37.5°	8731.3	5972.6	4226.4	3841.8	3739.8	3712.3	3688.7	3582.8	3421.9	3347.3	3292.4
40°	9331.7	5960.9	3994.8	3680.9	3653.4	3684.8	3614.2	3449.4	3225.7	3143.3	3104.0
42.5°	9908.6	6043.3	3849.6	3594.6	3559.2	3571.0	3472.9	3225.7	3115.8	3068.7	3005.9
45°	10873.9	6215.9	3610.3	3461.1	3445.4	3437.6	3319.9	3060.9	2998.1	2939.2	2927.4
47.5°	11745.1	6102.1	3457.2	3323.8	3339.5	3296.3	3045.2	2962.8	2892.1	2833.3	2813.6
50°	11796.1	5831.4	3241.4	3217.8	3221.8	3147.2	2907.8	2852.9	2762.6	2723.4	2695.9
52.5°	11529.3	5387.9	3041.3	3049.1	3060.9	2939.2	2739.1	2699.8	2625.3	2570.3	2554.7
55°	10779.8	4697.3	2845.0	2876.4	2907.8	2676.3	2613.5	2515.4	2456.5	2378.1	2382.0
57.5°	9496.6	3782.9	2570.3	2621.4	2688.1	2433.0	2385.9	2264.3	2177.9	2115.1	2107.3
60°	6365.0	2692.0	2158.3	2177.9	2327.0	2225.0	2221.1	2099.4	1981.7	1926.8	1895.4
62.5°	3755.5	2056.3	1864.0	1844.4	1840.4	1899.3	1997.4	1954.2	1801.2	1695.3	1726.6
65°	1966.0	1777.7	1734.5	1667.8	1628.5	1612.8	1687.4	1707.0	1605.0	1491.2	1483.3
67.5°	1652.1	1652.1	1616.8	1593.2	1538.3	1471.6	1424.5	1361.7	1346.0	1314.6	1275.4
70°	1503.0	1542.2	1530.4	1475.5	1428.4	1353.8	1232.2	1130.2	1032.1	996.7	1020.3
72.5°	1310.7	1349.9	1349.9	1322.5	1259.7	1145.9	1028.1	910.4	828.0	765.2	757.4
75°	1008.5	1028.1	1075.2	1043.8	961.4	890.8	769.1	647.5	569.0	510.1	498.4
77.5°	643.6	675.0	675.0	671.0	612.2	545.5	467.0	380.6	321.8	278.6	266.8
80°	427.7	447.4	463.1	447.4	408.1	357.1	298.2	239.4	196.2	160.9	153.0
82.5°	313.9	337.5	349.3	333.6	294.3	255.1	211.9	168.7	125.6	98.1	90.3
85°	121.7	125.6	141.3	168.7	164.8	160.9	129.5	94.2	70.6	51.0	47.1
87.5°	31.4	27.5	31.4	31.4	27.5	23.5	23.5	23.5	23.5	11.8	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)