

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: P528478

Luminaire Tested: **GALN-SA3C-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17893 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

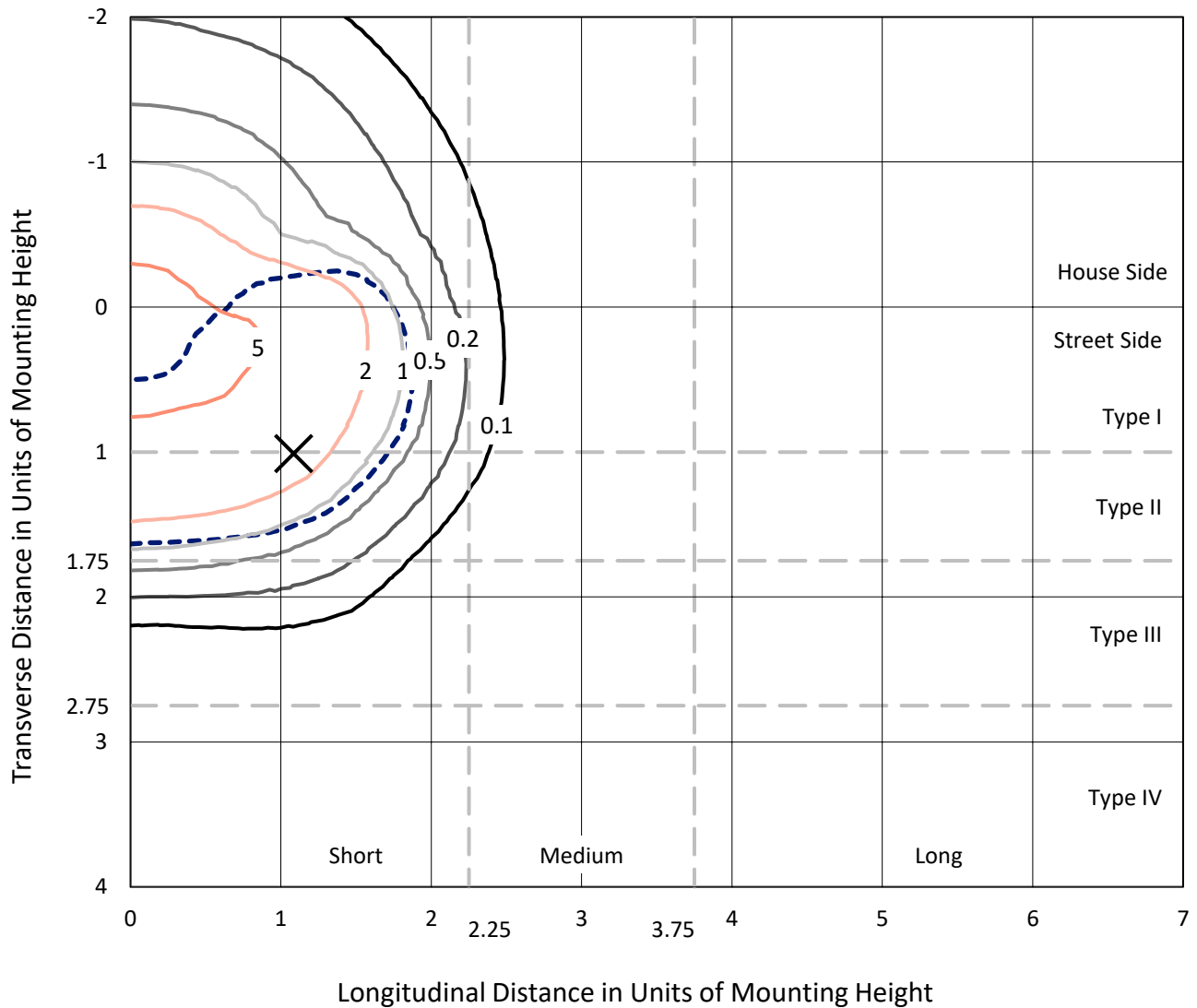
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

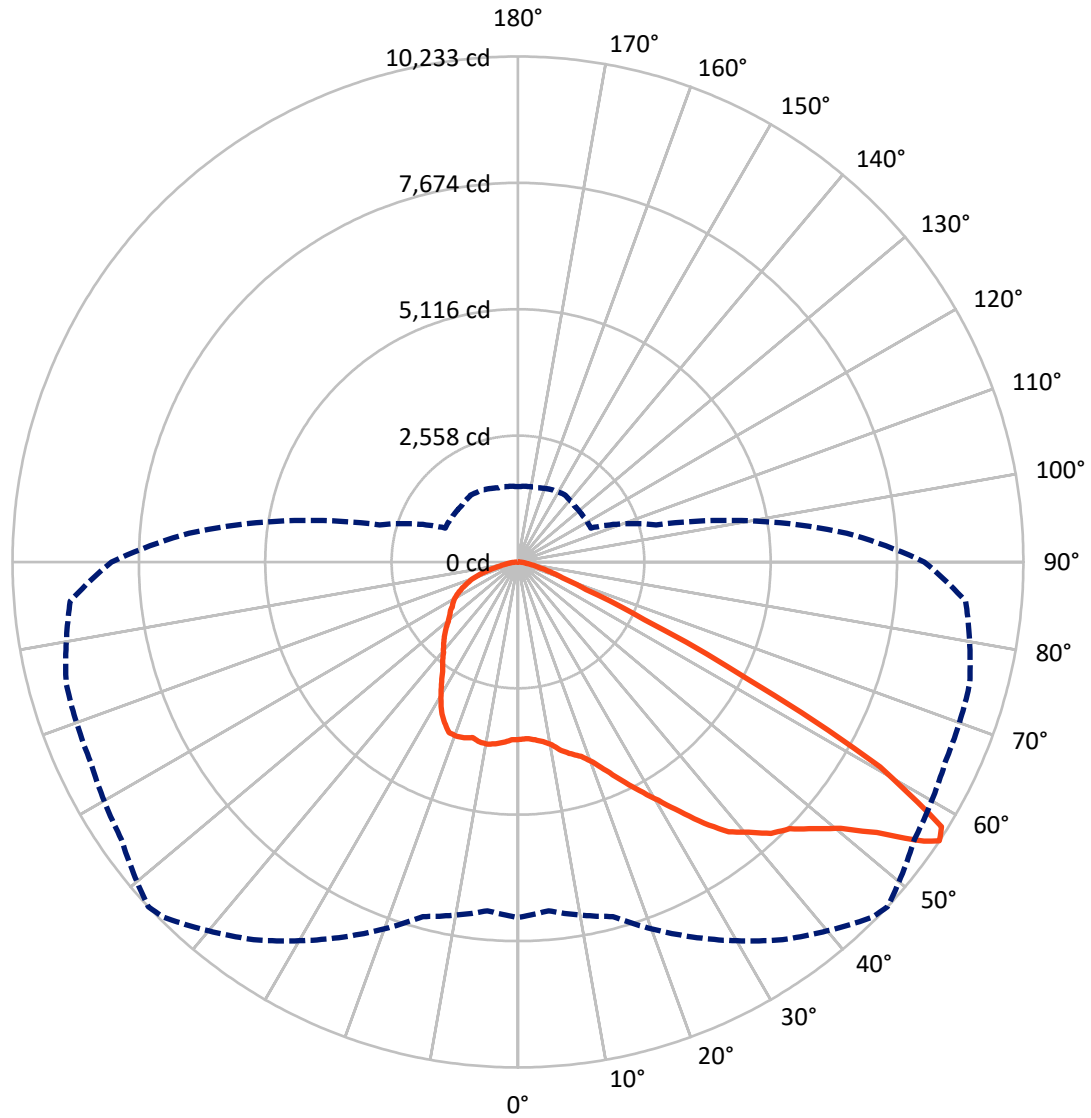
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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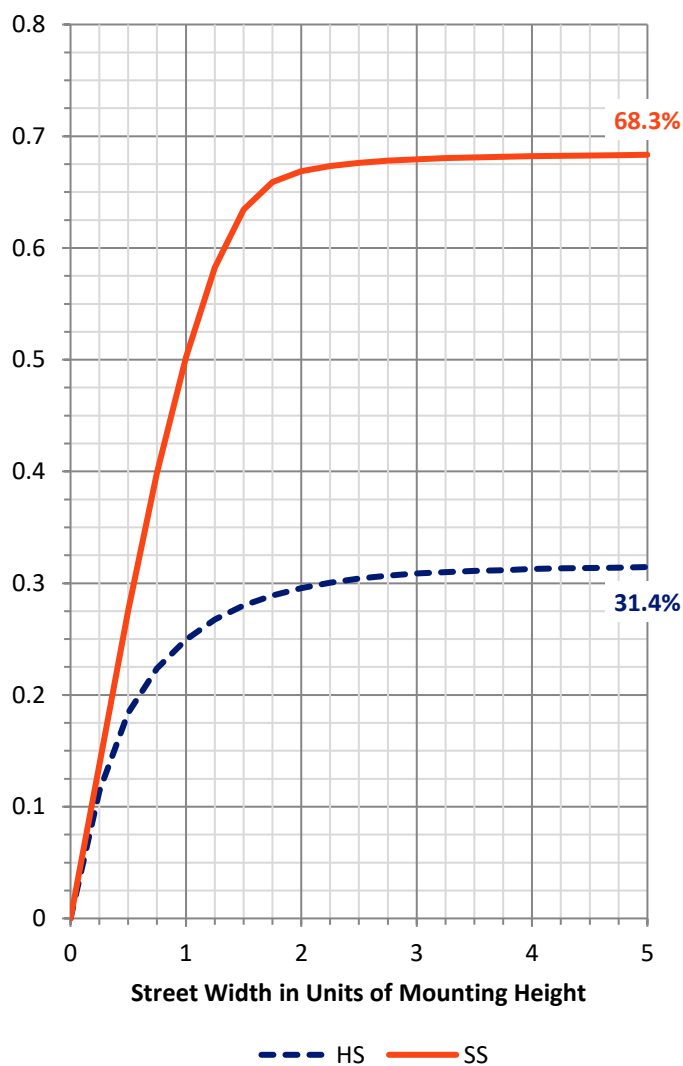
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5670.1	0.0	5670.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12222.9	0.0	12222.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	17893.0	0.0	17893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	2.0
10°-20°	1104.7	6.2
20°-30°	1952.9	10.9
30°-40°	2933.1	16.4
40°-50°	4025.5	22.5
50°-60°	4795.8	26.8
60°-70°	2052.3	11.5
70°-80°	580.8	3.2
80°-90°	97.7	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°	17893.0	100.0
0°-180°	17893.0	100.0

Coefficient of Utilization

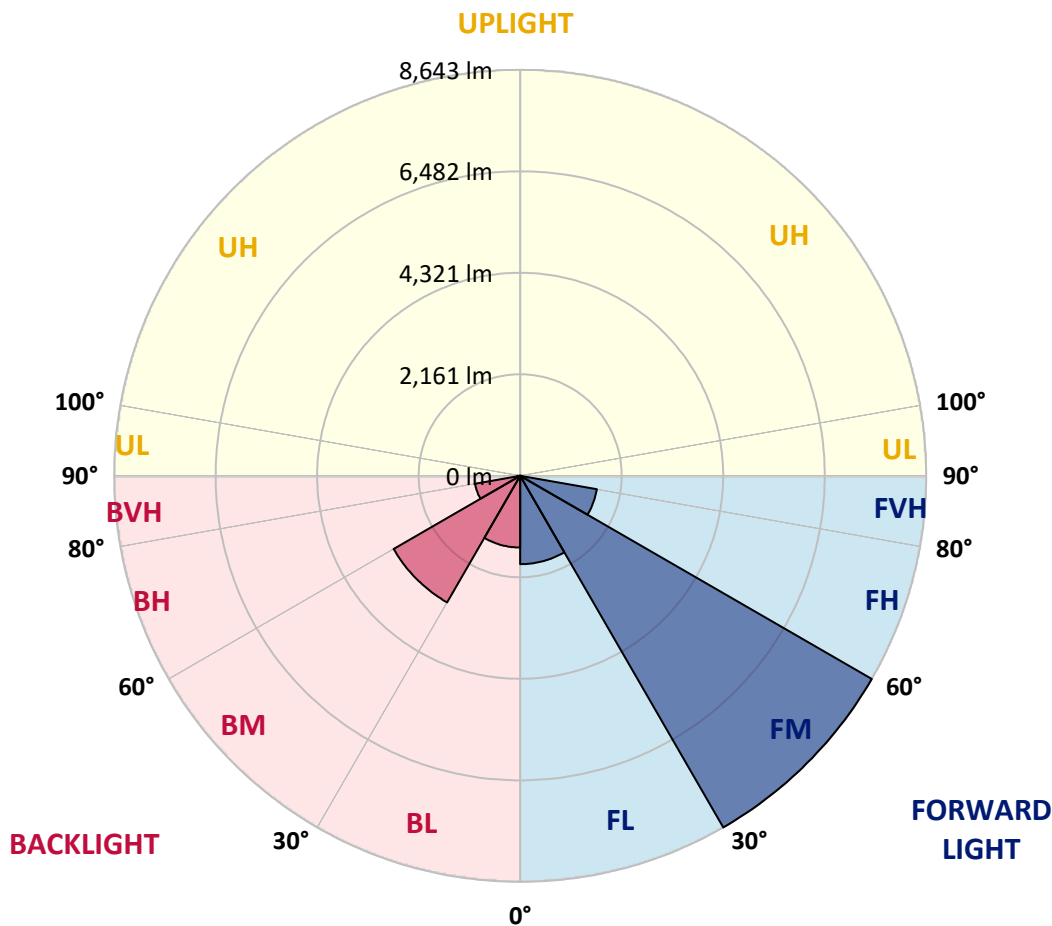


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.2	10.5			
FM (30°-60°)	8642.7	48.3			
FH (60°-80°)	1657.5	9.3			G1/1800
FVH (80°-90°)	41.5	0.2			G1/100
BL (0°-30°)	1526.6	8.5	B3/2500		
BM (30°-60°)	3111.6	17.4	B3/5000		
BH (60°-80°)	975.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	56.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2
2.5°	3580.5	3573.6	3569.1	3605.6	3591.9	3594.2	3580.5	3594.2	3603.3	3582.8	3612.4
5°	3573.6	3594.2	3575.9	3587.3	3617.0	3607.9	3617.0	3644.4	3637.5	3630.7	3621.5
7.5°	3637.5	3639.8	3653.5	3658.1	3667.2	3658.1	3671.7	3696.9	3690.0	3651.2	3655.8
10°	3728.8	3733.4	3735.6	3760.7	3776.7	3779.0	3763.0	3740.2	3737.9	3790.4	3753.9
12.5°	3833.8	3822.4	3849.7	3858.9	3877.1	3897.7	3918.2	3870.3	3899.9	3902.2	3858.9
15°	3986.7	3998.1	3966.1	3966.1	3973.0	3975.3	4032.3	4009.5	4004.9	3979.8	3998.1
17.5°	4214.9	4137.3	4135.0	4103.0	4098.5	4116.7	4137.3	4155.5	4217.1	4166.9	4068.8
20°	4381.5	4399.7	4333.5	4294.7	4301.6	4342.7	4322.1	4404.3	4447.6	4365.5	4269.6
22.5°	4675.8	4614.2	4630.2	4543.5	4550.3	4593.7	4591.4	4675.8	4700.9	4570.9	4431.7
25°	4874.4	4858.4	4872.1	4803.6	4812.8	4847.0	4901.7	5041.0	4999.9	4856.1	4534.3
27.5°	5164.2	5132.2	5120.8	5095.7	5086.6	5177.9	5241.8	5390.1	5360.4	5150.5	4716.9
30°	5460.8	5440.3	5451.7	5349.0	5385.5	5579.5	5597.8	5800.9	5787.2	5417.5	4920.0
32.5°	5666.2	5677.6	5698.2	5641.1	5803.1	5958.3	6019.9	6250.4	6261.8	5876.2	5312.5
35°	5997.1	5958.3	5969.7	6035.9	6111.2	6394.2	6494.6	6647.5	6743.3	6357.7	5689.0
37.5°	6204.8	6245.9	6197.9	6302.9	6499.2	6839.2	6930.5	7087.9	7188.3	6832.3	6202.5
40°	6528.8	6462.6	6496.9	6572.2	6773.0	7215.7	7190.6	7352.6	7384.6	7236.2	6681.7
42.5°	6878.0	6846.0	6798.1	6969.2	7138.1	7459.9	7510.1	7434.8	7596.8	7631.0	7366.3
45°	7295.6	7334.4	7341.2	7345.8	7494.1	7774.8	7706.3	7640.2	7827.3	8076.0	7790.8
47.5°	7683.5	7560.3	7649.3	7772.5	7982.5	7984.7	8064.6	7907.2	8105.7	8327.0	8174.1
50°	7813.6	7754.3	7872.9	8105.7	8429.7	8464.0	8473.1	8249.5	8352.1	8527.9	8306.5
52.5°	7763.4	7742.8	8046.4	8406.9	8881.6	9055.0	9100.6	8824.5	8881.6	8801.7	8598.6
55°	7523.8	7585.4	7891.2	8626.0	9353.9	9890.2	9976.9	9627.8	9264.9	9326.6	9102.9
56°	7195.2	7087.9	7430.2	8377.2	9333.4	10161.8	10232.5	9796.7	9550.2	9470.3	9098.4
57.5°	6104.4	5965.2	6414.7	7537.5	8815.4	10059.1	10111.6	9867.4	9502.3	9340.3	8434.3
60°	3573.6	3642.1	4212.6	5198.4	6800.4	8247.2	8422.9	8600.9	8356.7	7631.0	6277.8
62.5°	1725.2	1681.8	2090.3	2980.3	4144.1	5264.6	5212.1	5711.9	5985.7	5422.0	3963.8
65°	903.7	899.1	1141.0	1627.1	2277.4	2765.8	2813.7	3083.0	3459.5	2793.2	2012.7
67.5°	664.1	682.3	803.3	1143.3	1465.0	1494.7	1487.9	1622.5	1659.0	1403.4	1236.8
70°	520.3	529.4	618.4	869.4	1090.8	976.7	956.2	972.1	1079.4	1125.0	1070.3
72.5°	376.5	385.7	461.0	586.5	682.3	666.3	680.0	769.0	901.4	949.3	892.3
75°	251.0	257.9	298.9	358.3	403.9	435.9	461.0	563.7	686.9	714.3	686.9
77.5°	173.4	180.3	207.7	253.3	257.9	278.4	287.5	335.5	410.8	445.0	426.7
80°	98.1	98.1	111.8	130.1	159.7	187.1	191.7	230.5	264.7	287.5	292.1
82.5°	45.6	47.9	59.3	79.9	105.0	130.1	134.6	159.7	184.8	207.7	214.5
85°	22.8	25.1	34.2	47.9	63.9	77.6	75.3	77.6	82.2	77.6	79.9
87.5°	6.8	6.8	9.1	11.4	9.1	11.4	11.4	13.7	16.0	18.3	20.5
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°	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2
2.5°	3614.7	3621.5	3575.9	3619.3	3603.3	3601.0	3633.0	3628.4	3639.8	3635.2	3607.9
5°	3617.0	3601.0	3648.9	3605.6	3626.1	3669.5	3639.8	3708.3	3674.0	3696.9	3646.6
7.5°	3687.7	3692.3	3683.2	3701.4	3692.3	3712.8	3696.9	3712.8	3685.4	3687.7	3733.4
10°	3749.3	3735.6	3751.6	3728.8	3744.8	3737.9	3701.4	3690.0	3699.1	3687.7	3717.4
12.5°	3863.4	3838.3	3826.9	3799.5	3781.3	3712.8	3655.8	3623.8	3667.2	3674.0	3660.3
15°	3979.8	3982.1	3929.6	3868.0	3753.9	3651.2	3664.9	3676.3	3676.3	3694.6	3660.3
17.5°	4052.8	4052.8	4004.9	3881.7	3765.3	3706.0	3692.3	3655.8	3623.8	3619.3	3617.0
20°	4180.6	4141.8	4032.3	3879.4	3760.7	3733.4	3630.7	3544.0	3477.8	3455.0	3452.7
22.5°	4326.7	4228.6	4075.7	3884.0	3753.9	3715.1	3523.4	3393.3	3274.7	3224.5	3231.3
25°	4461.3	4303.9	4100.8	3863.4	3728.8	3541.7	3327.2	3146.9	3023.7	2982.6	2962.0
27.5°	4554.9	4383.7	4100.8	3881.7	3635.2	3347.7	3128.6	2898.1	2790.9	2763.5	2768.1
30°	4680.4	4484.1	4171.5	3842.9	3448.1	3096.7	2834.3	2683.6	2619.7	2596.9	2612.9
32.5°	4974.8	4746.6	4269.6	3749.3	3226.8	2845.7	2633.4	2549.0	2455.4	2409.8	2393.8
35°	5294.3	4995.3	4365.5	3591.9	2978.0	2617.5	2485.1	2407.5	2295.7	2245.5	2254.6
37.5°	5746.1	5314.8	4372.3	3331.7	2708.7	2489.7	2368.7	2247.8	2156.5	2078.9	2056.1
40°	6355.4	5750.7	4356.4	3057.9	2492.0	2339.1	2250.1	2099.4	1996.8	1942.0	1953.4
42.5°	6891.7	6261.8	4290.2	2747.5	2295.7	2236.4	2136.0	1987.6	1887.2	1830.2	1825.6
45°	7343.5	6638.4	4164.7	2482.8	2131.4	2122.3	2005.9	1891.8	1811.9	1759.4	1782.2
47.5°	7761.1	6941.9	3975.3	2218.1	1980.8	1999.0	1887.2	1816.5	1766.3	1718.4	1716.1
50°	7911.7	6937.3	3808.7	1999.0	1859.8	1850.7	1846.1	1770.8	1718.4	1677.3	1695.5
52.5°	8162.7	7014.9	3628.4	1848.4	1750.3	1752.6	1768.6	1713.8	1654.5	1629.4	1652.2
55°	8523.3	7026.3	3231.3	1672.7	1659.0	1675.0	1675.0	1638.5	1588.3	1567.7	1556.3
56°	8228.9	6686.3	2898.1	1627.1	1613.4	1613.4	1656.7	1615.7	1554.0	1538.1	1524.4
57.5°	7590.0	5857.9	2425.8	1572.3	1551.8	1583.7	1606.5	1563.2	1506.1	1483.3	1497.0
60°	5234.9	3963.8	1823.3	1453.6	1453.6	1506.1	1524.4	1460.5	1435.4	1433.1	1414.8
62.5°	3055.6	2309.4	1426.3	1346.4	1350.9	1394.3	1408.0	1371.5	1339.5	1378.3	1396.6
65°	1620.2	1378.3	1223.2	1232.3	1234.6	1268.8	1328.1	1325.8	1323.6	1335.0	1337.3
67.5°	1173.0	1145.6	1111.3	1102.2	1106.8	1131.9	1191.2	1236.8	1234.6	1207.2	1186.6
70°	1045.2	1006.4	985.8	988.1	969.9	999.5	1047.4	1077.1	1024.6	992.7	979.0
72.5°	869.4	858.0	844.3	846.6	810.1	803.3	748.5	748.5	734.8	725.7	741.7
75°	664.1	659.5	666.3	654.9	616.1	575.1	543.1	513.5	467.8	449.6	440.4
77.5°	419.9	433.6	449.6	424.5	408.5	378.8	346.9	317.2	280.7	260.1	260.1
80°	285.3	296.7	308.1	303.5	285.3	257.9	232.8	200.8	175.7	159.7	157.5
82.5°	216.8	225.9	241.9	223.6	205.4	182.6	162.0	139.2	116.4	98.1	98.1
85°	77.6	89.0	98.1	107.3	114.1	116.4	100.4	82.2	66.2	52.5	50.2
87.5°	20.5	22.8	25.1	22.8	22.8	22.8	25.1	22.8	20.5	16.0	16.0
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)