

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: P454214

Luminaire Tested: **GALN-SA5B-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28258 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

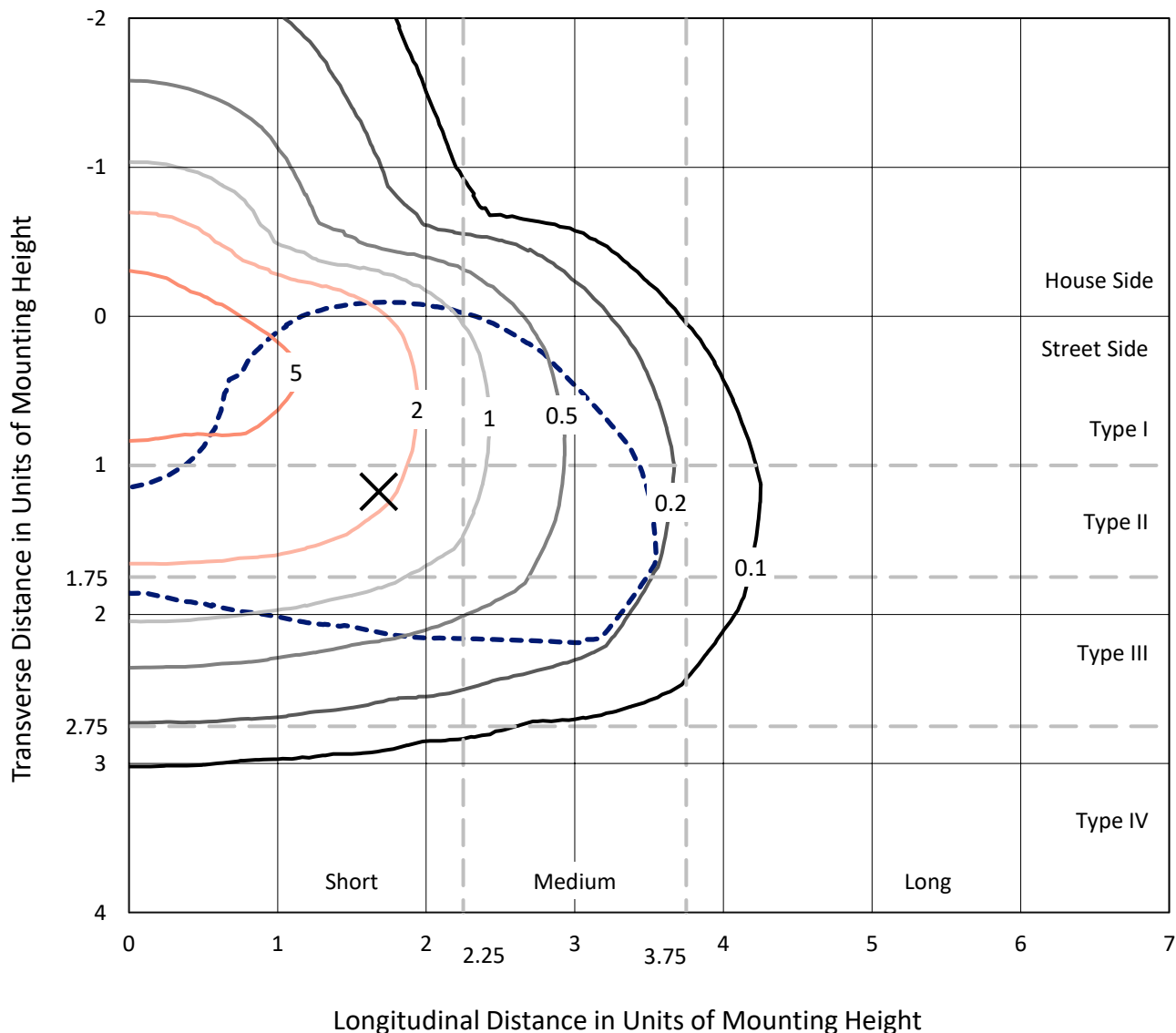
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454214
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Iso-Footcandle Lines of Horizontal Illumination

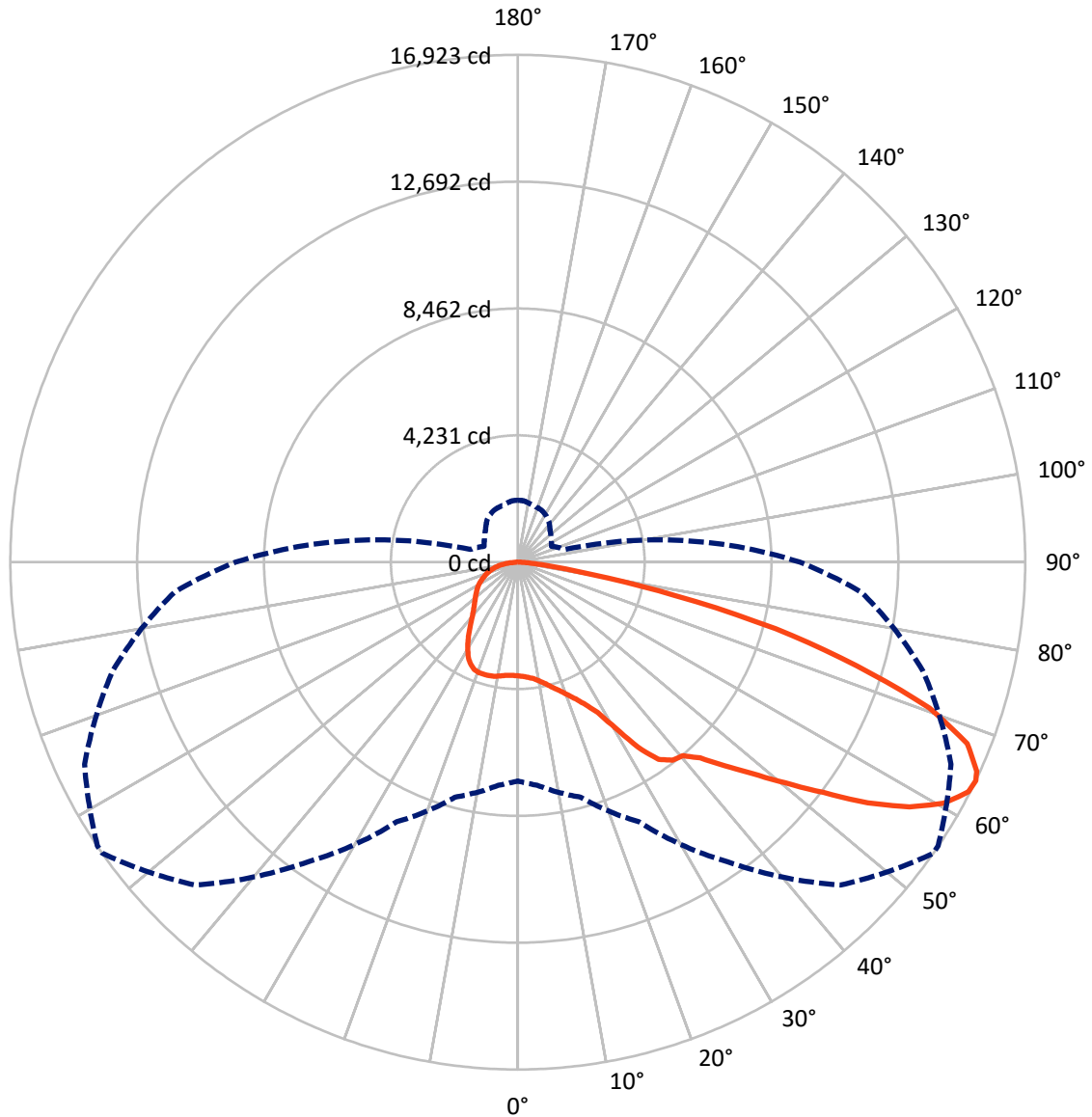
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

REPORT NUMBER: P454214
CATALOG NUMBER: GALN-SA5B-740-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6864.4	0.0	6864.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	21393.6	0.0	21393.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	28258.0	0.0	28258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.8	1.3
10°-20°	1163.7	4.1
20°-30°	2071.7	7.3
30°-40°	3187.5	11.3
40°-50°	4518.5	16.0
50°-60°	6540.4	23.1
60°-70°	6768.6	24.0
70°-80°	3169.7	11.2
80°-90°	469.2	1.7
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°	28258.0	100.0
0°-180°	28258.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454214

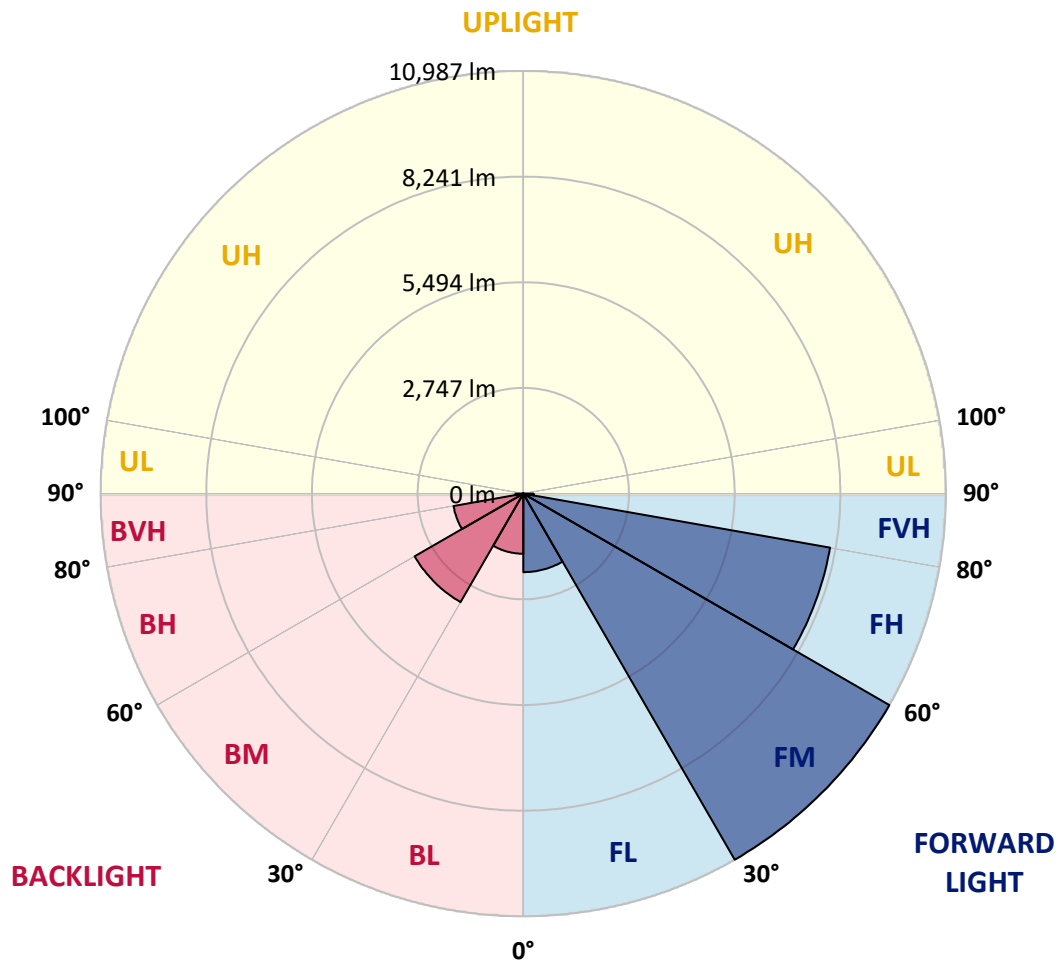
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2040.7	7.2			
FM	(30°-60°)	10987.5	38.9			
FH	(60°-80°)	8096.7	28.7			G4/12000
FVH	(80°-90°)	268.7	1.0			G3/500
BL	(0°-30°)	1563.4	5.5	B3/2500		
BM	(30°-60°)	3258.8	11.5	B3/5000		
BH	(60°-80°)	1841.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	200.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P454214

CATALOG NUMBER: GALN-SA5B-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4
2.5°	3833.9	3832.3	3837.0	3832.3	3835.5	3824.4	3819.7	3822.9	3818.1	3810.3	3796.1
5°	3881.2	3879.6	3881.2	3874.9	3878.0	3871.7	3860.7	3863.8	3856.0	3838.6	3818.1
7.5°	3961.5	3955.2	3955.2	3953.6	3947.3	3937.9	3930.0	3926.8	3919.0	3896.9	3865.4
10°	4065.4	4065.4	4067.0	4054.4	4062.3	4045.0	4037.1	4035.5	4008.7	3980.4	3936.3
12.5°	4202.5	4210.4	4205.6	4199.3	4196.2	4189.9	4163.1	4169.4	4139.5	4090.6	4037.1
15°	4372.6	4385.2	4377.3	4374.2	4366.3	4342.7	4331.6	4326.9	4287.5	4216.7	4145.8
17.5°	4597.8	4582.1	4575.8	4567.9	4534.8	4517.5	4498.6	4495.5	4460.8	4377.3	4267.1
20°	4794.7	4816.8	4804.2	4796.3	4763.2	4730.2	4716.0	4711.3	4681.3	4590.0	4413.6
22.5°	5029.4	5034.2	5038.9	5020.0	5004.2	4979.0	4953.8	4946.0	4934.9	4840.4	4624.6
25°	5279.9	5298.8	5283.0	5264.1	5245.2	5243.7	5267.3	5264.1	5259.4	5168.0	4905.0
27.5°	5687.8	5705.2	5709.9	5689.4	5617.0	5623.3	5676.8	5694.1	5766.6	5615.4	5265.7
30°	5917.8	5935.1	5974.5	6051.7	6166.7	6267.5	6396.7	6436.0	6505.3	6220.2	5694.1
32.5°	6059.6	6065.9	6136.8	6280.1	6625.1	7001.5	7352.8	7366.9	7411.1	7011.0	6086.4
35°	6283.2	6288.0	6344.7	6502.2	6907.0	7533.9	8077.3	8094.7	8058.4	7256.7	6269.1
37.5°	6558.9	6571.5	6607.7	6738.5	7222.0	7979.7	8378.2	8365.6	8044.3	7452.0	6592.0
40°	6960.6	6960.6	6918.0	7094.4	7554.4	8234.9	8483.7	8461.7	8376.6	8017.5	7083.4
42.5°	7315.0	7308.7	7409.5	7529.2	7970.2	8628.6	8926.3	8962.6	9102.8	8727.9	7642.6
45°	7776.5	7804.8	7861.5	8078.9	8677.5	9301.2	9685.6	9720.2	9918.7	9564.3	8296.3
47.5°	8242.7	8252.2	8430.2	8720.0	9553.2	10213.2	10528.3	10585.0	10766.1	10542.4	9000.4
50°	8573.5	8663.3	8948.4	9405.2	10455.8	11325.3	11571.0	11638.7	11958.5	11607.2	9821.0
52.5°	8923.2	9011.4	9359.5	10055.7	11492.2	12462.5	12765.0	12810.6	13143.0	12684.6	10660.6
55°	9222.5	9304.4	9699.7	10632.2	12317.6	13623.4	14171.6	14118.0	14277.1	13514.7	11308.0
57.5°	9271.3	9337.5	9835.2	11000.8	12938.2	14618.9	15404.9	15436.4	15252.1	14135.3	11841.9
60°	8893.3	9028.7	9600.5	10961.4	13217.0	15312.0	16324.8	16346.8	15823.9	14453.5	12054.6
62.5°	8223.8	8209.6	8901.1	10328.2	12826.4	15469.5	16866.6	16843.0	16047.6	14300.7	11848.2
64°	7299.2	7469.3	8115.1	9550.1	12196.3	15226.9	16923.3	16910.7	15940.5	13982.5	11497.0
65°	6735.3	6725.9	7363.8	8913.7	11569.4	14861.5	16822.5	16805.2	15716.8	13697.4	11224.5
67.5°	4862.5	4884.5	5514.6	6878.7	9405.2	13432.8	16165.7	16101.1	14834.7	12752.4	10188.0
70°	2945.5	2958.1	3452.7	4563.2	6751.1	10859.0	14571.7	14574.8	13484.8	11341.0	8671.2
72.5°	1551.5	1584.6	1783.1	2591.1	4100.1	7619.0	11821.5	12101.8	11577.3	9679.3	6850.3
75°	863.2	867.9	1008.1	1277.4	2091.8	4263.9	8885.4	8965.7	9165.8	7790.7	5065.7
77.5°	658.4	667.9	712.0	825.4	1138.8	1976.8	5377.5	5780.8	6459.7	5492.5	2890.4
80°	534.0	543.4	581.2	649.0	757.6	937.2	2498.2	2715.5	3457.4	2438.3	1127.8
82.5°	415.8	409.5	458.4	502.5	551.3	554.5	1025.4	1134.1	1408.2	1049.0	488.3
85°	308.7	308.7	348.1	338.7	356.0	324.5	452.1	499.3	563.9	445.8	226.8
87.5°	122.9	135.5	228.4	204.8	159.1	127.6	167.0	176.4	195.3	174.8	94.5
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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 CATALOG NUMBER: GALN-SA5B-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4	3791.4
2.5°	3797.7	3802.4	3791.4	3783.5	3780.3	3775.6	3770.9	3772.5	3778.8	3785.1	3783.5
5°	3816.6	3818.1	3799.2	3789.8	3783.5	3777.2	3777.2	3781.9	3794.5	3804.0	3804.0
7.5°	3863.8	3863.8	3837.0	3819.7	3810.3	3799.2	3796.1	3797.7	3807.1	3819.7	3821.3
10°	3937.9	3931.6	3896.9	3870.1	3852.8	3826.0	3802.4	3789.8	3794.5	3802.4	3802.4
12.5°	4027.6	4010.3	3966.2	3930.0	3887.5	3837.0	3788.2	3763.0	3761.4	3769.3	3766.2
15°	4123.7	4104.8	4043.4	3977.2	3903.2	3829.2	3770.9	3734.7	3706.3	3698.4	3715.8
17.5°	4235.6	4196.2	4111.1	4019.8	3909.5	3813.4	3722.1	3648.0	3597.6	3583.5	3588.2
20°	4371.0	4319.0	4204.1	4060.7	3904.8	3756.7	3615.0	3515.7	3433.8	3408.6	3411.8
22.5°	4558.5	4468.7	4300.1	4081.2	3865.4	3649.6	3452.7	3323.6	3224.3	3184.9	3208.6
25°	4771.1	4673.5	4391.5	4076.5	3763.0	3477.9	3260.5	3092.0	3002.2	2943.9	2956.5
27.5°	5064.1	4890.8	4489.2	4033.9	3616.5	3268.4	3016.4	2857.3	2775.4	2745.5	2759.7
30°	5439.0	5172.8	4594.7	3919.0	3385.0	3003.8	2770.7	2666.7	2617.9	2580.1	2592.7
32.5°	5709.9	5371.2	4618.3	3725.2	3134.5	2762.8	2603.7	2526.5	2473.0	2436.7	2444.6
35°	5903.6	5539.8	4607.3	3487.4	2873.1	2564.3	2471.4	2408.4	2321.8	2243.0	2228.8
37.5°	6163.5	5750.8	4527.0	3227.5	2614.7	2430.4	2364.3	2247.7	2123.3	2017.8	2013.0
40°	6562.0	5998.1	4355.3	2921.9	2394.2	2331.2	2250.9	2099.7	1965.8	1880.7	1874.4
42.5°	6973.2	6226.5	4122.2	2600.6	2213.1	2227.3	2129.6	1980.0	1898.0	1842.9	1836.6
45°	7475.6	6473.8	3870.1	2321.8	2079.2	2129.6	2024.1	1937.4	1888.6	1852.4	1842.9
47.5°	8019.1	6727.4	3586.6	2071.3	1965.8	2039.8	1980.0	1940.6	1913.8	1888.6	1877.6
50°	8605.0	7011.0	3320.4	1869.7	1863.4	1946.9	1975.2	1961.1	1945.3	1937.4	1928.0
52.5°	9247.7	7300.8	3096.7	1727.9	1773.6	1880.7	1976.8	1987.8	1987.8	1983.1	1976.8
55°	9682.4	7502.4	2869.9	1612.9	1682.3	1827.2	1973.7	2016.2	2031.9	2025.6	2019.3
57.5°	10003.7	7612.7	2584.8	1513.7	1605.1	1775.2	1956.3	2019.3	2035.1	2043.0	2039.8
60°	10069.9	7510.3	2211.5	1409.8	1521.6	1699.6	1893.3	1972.1	1992.6	2041.4	2046.1
62.5°	9772.2	7195.3	1839.8	1307.4	1419.2	1584.6	1808.3	1918.5	1959.5	2035.1	2043.0
64°	9406.8	6842.4	1633.4	1242.8	1353.0	1520.0	1765.7	1904.3	1957.9	2058.7	2065.0
65°	9139.0	6585.7	1504.3	1201.8	1310.5	1477.5	1742.1	1909.1	1972.1	2094.9	2104.4
67.5°	8152.9	5702.0	1244.4	1105.8	1209.7	1405.0	1746.8	1948.5	1968.9	2109.1	2107.5
70°	6746.3	4539.6	1042.7	1017.5	1112.1	1346.7	1727.9	1885.4	1887.0	1980.0	1957.9
72.5°	5051.5	3355.1	904.1	926.2	1003.4	1208.1	1631.8	1800.4	1773.6	1786.2	1764.2
75°	3470.0	2219.4	778.1	828.5	890.0	1067.9	1496.4	1635.0	1592.5	1576.7	1561.0
77.5°	1852.4	1227.0	647.4	732.4	773.4	923.0	1305.8	1439.7	1395.6	1334.1	1313.7
80°	749.8	578.1	521.4	606.4	630.1	743.5	1086.8	1170.3	1137.3	1030.1	995.5
82.5°	376.5	346.5	409.5	477.3	478.8	530.8	808.0	886.8	812.8	682.0	652.1
85°	196.9	203.2	282.0	335.5	296.1	286.7	485.1	537.1	493.0	428.4	385.9
87.5°	70.9	81.9	148.1	146.5	104.0	55.1	107.1	52.0	28.4	17.3	22.1
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)