

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: P454218

Luminaire Tested: **GALN-SA5B-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28433 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

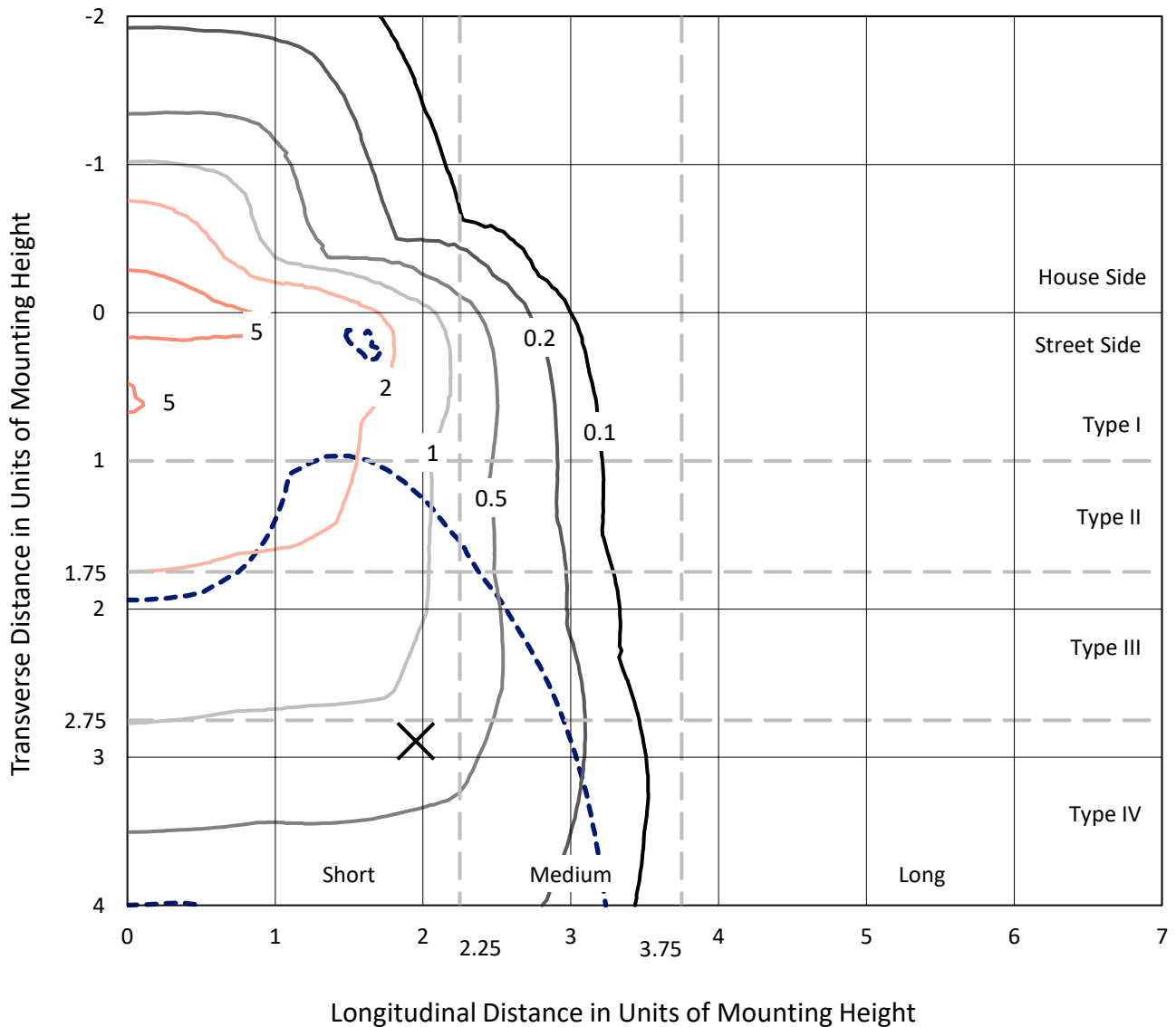
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

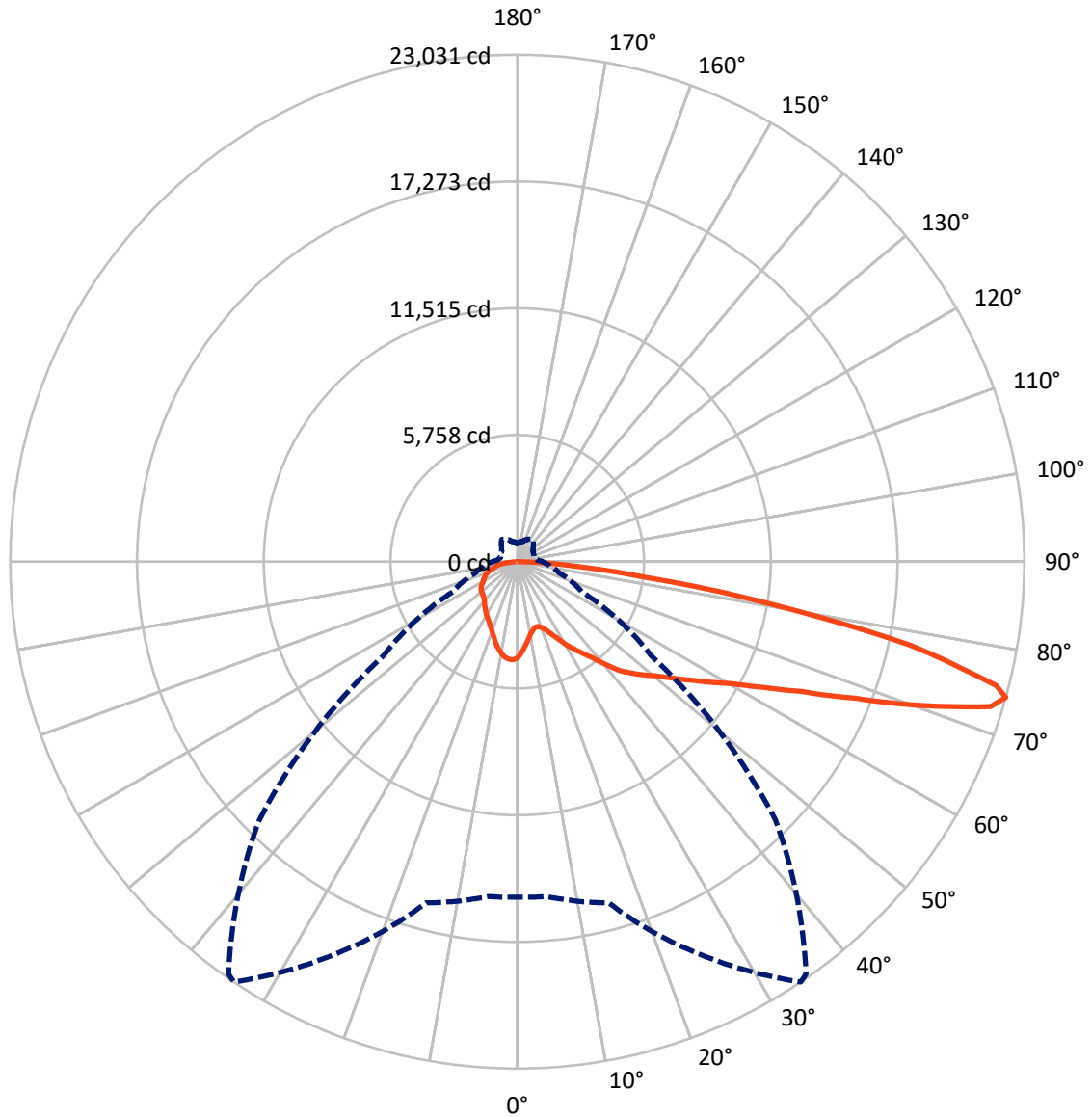
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6050.7	0.0	6050.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	22382.3	0.0	22382.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	28433.0	0.0	28433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	1.4
10°-20°	1080.8	3.8
20°-30°	1781.9	6.3
30°-40°	2669.1	9.4
40°-50°	3880.2	13.6
50°-60°	5419.7	19.1
60°-70°	6785.1	23.9
70°-80°	5610.8	19.7
80°-90°	810.7	2.9
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°	28433.0	100.0
0°-180°	28433.0	100.0

Coefficient of Utilization



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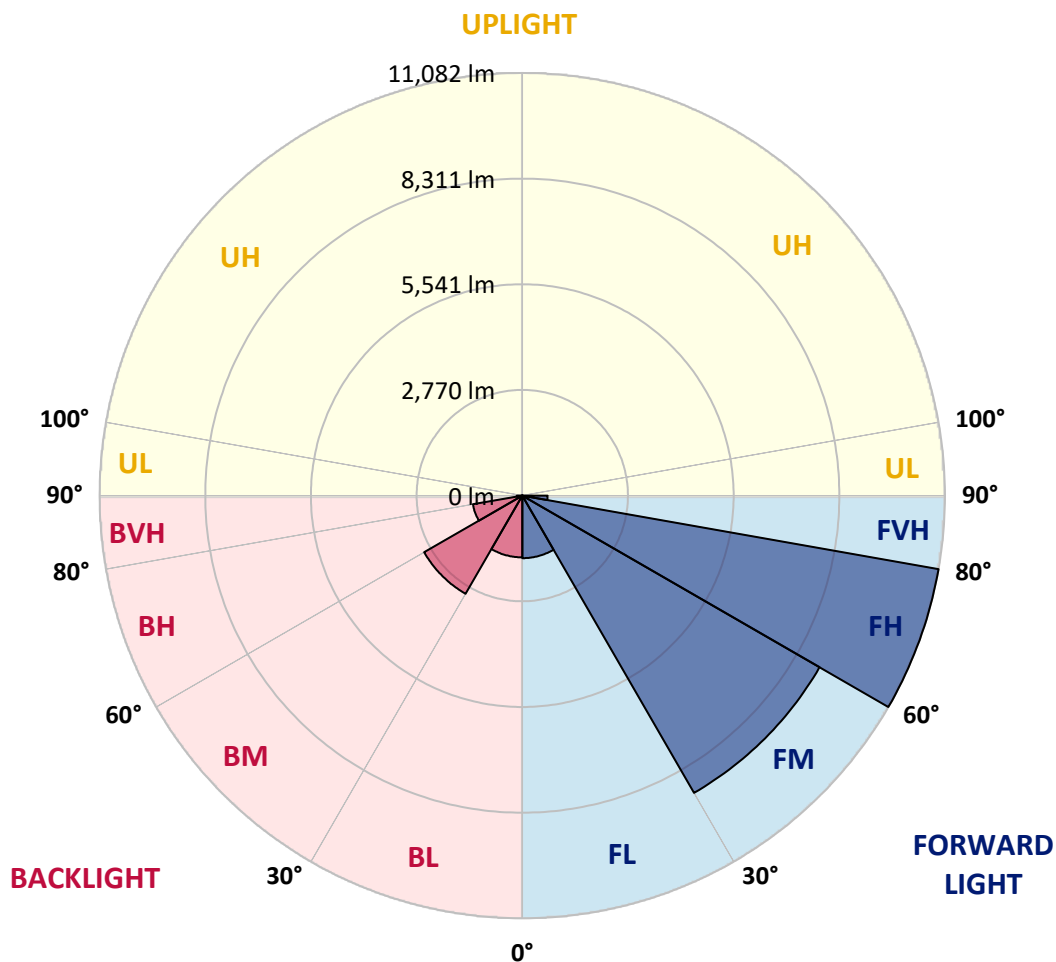
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1639.0	5.8			
FM	(30°-60°)	8997.4	31.6			
FH	(60°-80°)	11081.7	39.0			G4/12000
FVH	(80°-90°)	664.2	2.3			G4/750
BL	(0°-30°)	1618.5	5.7	B3/2500		
BM	(30°-60°)	2971.5	10.5	B3/5000		
BH	(60°-80°)	1314.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	146.5	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2
2.5°	4011.9	4032.4	4043.5	4082.8	4092.3	4104.9	4138.0	4182.1	4238.8	4289.2	4333.3
5°	3678.0	3709.5	3728.4	3763.1	3830.8	3837.1	3925.3	4026.1	4141.1	4248.2	4336.4
7.5°	3361.4	3396.1	3411.8	3474.8	3564.6	3578.8	3707.9	3867.0	4059.2	4221.4	4356.9
10°	3123.6	3140.9	3175.5	3222.8	3329.9	3339.4	3507.9	3720.5	3969.4	4208.8	4391.6
12.5°	2994.4	3003.8	3011.7	3062.1	3167.7	3181.8	3358.3	3599.3	3898.5	4218.3	4448.3
15°	3013.3	3016.4	2981.8	2991.2	3076.3	3096.8	3271.6	3518.9	3854.4	4241.9	4533.3
17.5°	3172.4	3161.4	3076.3	3032.2	3092.1	3101.5	3254.3	3487.4	3834.0	4286.0	4621.5
20°	3422.8	3407.1	3260.6	3162.9	3197.6	3205.5	3311.0	3511.0	3854.4	4358.5	4758.6
22.5°	3734.7	3728.4	3506.3	3388.2	3386.6	3386.6	3441.7	3596.1	3915.9	4457.7	4901.9
25°	4171.0	4138.0	3848.1	3695.3	3652.8	3649.7	3643.4	3736.3	3994.6	4563.3	5072.0
27.5°	4618.4	4561.7	4303.4	4068.7	3977.3	3966.3	3925.3	3934.8	4095.4	4683.0	5265.8
30°	5020.1	4983.8	4741.2	4481.3	4372.7	4347.5	4234.0	4182.1	4264.0	4898.8	5574.5
32.5°	5327.2	5305.2	5116.1	4879.9	4719.2	4714.5	4549.1	4506.5	4527.0	5160.2	5927.3
35°	5576.1	5584.0	5487.9	5283.1	5098.8	5072.0	4961.8	4908.2	4848.4	5538.3	6371.5
37.5°	5916.3	5933.6	5927.3	5750.9	5525.7	5532.0	5506.8	5418.6	5259.5	5960.4	6864.6
40°	6291.2	6303.8	6302.2	6234.5	6116.4	6122.7	6113.2	6012.4	5774.6	6497.6	7412.7
42.5°	6809.4	6749.6	6593.6	6661.4	6730.7	6760.6	6825.2	6729.1	6403.0	7070.9	7927.8
45°	7389.1	7275.7	6922.9	6954.4	7211.1	7267.8	7623.8	7491.5	7085.1	7729.3	8534.2
47.5°	7754.5	7642.7	7345.0	7338.7	7678.9	7734.1	8364.1	8315.3	7705.7	8439.7	9274.6
50°	8080.6	8064.8	7729.3	7809.7	8142.0	8223.9	9170.6	9124.9	8324.8	9277.7	10081.1
52.5°	8564.2	8436.6	8168.8	8334.2	8773.7	8880.8	9970.8	9836.9	8893.4	10018.1	10863.9
55°	8781.5	8751.6	8735.9	8879.2	9482.5	9559.7	10748.9	10441.8	9378.5	10645.0	11459.3
57.5°	9362.8	9307.7	9463.6	9561.3	10317.3	10435.5	11561.7	11073.4	9803.8	11142.7	11749.2
60°	10115.7	10085.8	10229.1	10405.5	11249.8	11429.4	12487.9	11612.1	10145.6	11393.2	11590.1
62.5°	11240.4	11237.2	11210.5	11588.5	12571.4	12736.8	13551.2	12136.7	10199.2	11205.7	10767.8
65°	12853.4	12796.6	12563.5	12976.2	14215.9	14409.6	14658.5	12429.6	9876.3	10243.3	9066.7
67.5°	14540.4	14537.2	14348.2	14883.7	16577.0	16777.1	16043.1	12365.1	8980.0	8298.0	6439.3
70°	15939.1	15871.4	16112.4	17539.5	19593.5	19825.0	17254.4	11604.2	7152.8	5480.0	3826.1
72.5°	16274.6	16277.8	16778.7	19587.2	22490.2	22526.4	17690.7	9405.3	4786.9	3022.7	1913.8
74°	15241.3	15268.1	16044.6	19689.6	23030.5	22866.7	16575.5	7392.3	3237.0	1973.7	1379.8
75°	13911.9	13743.3	14866.4	19007.5	22469.7	22293.3	15269.7	5932.1	2469.9	1576.7	1208.2
77.5°	7437.9	7609.6	9342.3	14184.4	18254.6	18051.4	10353.6	2844.7	1334.2	1097.9	869.5
80°	2647.9	2920.4	4104.9	7422.2	11703.5	11766.5	4941.3	1304.2	938.8	809.6	614.3
82.5°	1080.6	1110.5	1762.6	3293.7	5943.1	5999.8	2017.8	775.0	671.0	557.6	367.0
85°	422.1	434.7	779.7	1480.7	2536.0	2701.4	697.8	409.5	412.7	319.8	187.4
87.5°	141.8	160.7	319.8	493.0	861.6	844.3	203.2	121.3	148.1	138.6	58.3
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°	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2	4341.2
2.5°	4355.3	4385.3	4405.7	4427.8	4448.3	4454.6	4449.8	4464.0	4465.6	4467.2	4468.7
5°	4380.5	4421.5	4460.9	4482.9	4492.4	4484.5	4457.7	4443.5	4430.9	4421.5	4424.6
7.5°	4415.2	4473.5	4509.7	4519.2	4493.9	4457.7	4391.6	4339.6	4306.5	4284.5	4282.9
10°	4468.7	4525.5	4555.4	4528.6	4459.3	4371.1	4267.1	4169.5	4095.4	4073.4	4071.8
12.5°	4536.5	4601.1	4599.5	4520.7	4399.4	4241.9	4073.4	3960.0	3859.2	3808.8	3829.2
15°	4624.7	4673.5	4627.8	4486.1	4293.9	4078.1	3870.2	3715.8	3602.4	3548.8	3552.0
17.5°	4727.1	4769.6	4648.3	4424.6	4145.8	3868.6	3627.6	3481.1	3391.3	3352.0	3348.8
20°	4854.7	4867.3	4648.3	4317.5	3955.2	3624.5	3394.5	3292.1	3241.7	3221.2	3227.5
22.5°	4991.7	4966.5	4623.1	4166.3	3704.8	3369.3	3214.9	3169.2	3144.0	3140.9	3144.0
25°	5146.1	5075.2	4571.1	3961.5	3443.3	3148.8	3059.0	3066.8	3071.6	3071.6	3082.6
27.5°	5335.1	5193.3	4484.5	3703.2	3137.7	2944.0	2918.8	2973.9	2999.1	3003.8	3011.7
30°	5584.0	5322.5	4341.2	3380.3	2877.8	2759.7	2803.8	2877.8	2906.2	2923.5	2920.4
32.5°	5880.1	5464.2	4147.4	3057.4	2668.3	2630.5	2684.1	2759.7	2791.2	2800.6	2788.0
35°	6228.2	5624.9	3892.2	2755.0	2485.6	2507.7	2570.7	2594.3	2622.7	2622.7	2629.0
37.5°	6603.1	5754.1	3580.4	2477.7	2343.8	2424.2	2469.9	2447.8	2435.2	2419.5	2427.3
40°	6984.3	5850.2	3175.5	2203.7	2202.1	2337.5	2350.1	2287.1	2236.7	2221.0	2213.1
42.5°	7316.6	5910.0	2810.1	1991.0	2068.2	2252.5	2261.9	2161.1	2080.8	2033.5	2017.8
45°	7708.9	5979.3	2452.5	1814.6	1943.8	2184.8	2208.4	2072.9	1954.8	1855.5	1830.3
47.5°	8246.0	6136.8	2170.6	1677.6	1854.0	2142.2	2175.3	2000.5	1844.5	1715.4	1694.9
50°	8852.4	6352.6	1951.6	1584.6	1784.7	2104.4	2145.4	1926.4	1742.1	1598.8	1583.0
52.5°	9408.5	6469.2	1762.6	1501.1	1716.9	2035.1	2106.0	1872.9	1641.3	1482.2	1468.1
55°	9712.5	6280.2	1576.7	1419.2	1624.0	1945.3	2050.9	1798.8	1543.7	1420.8	1400.3
57.5°	9753.4	5889.5	1408.2	1331.0	1526.3	1835.1	1948.5	1709.1	1480.7	1378.3	1360.9
60°	9436.8	5306.7	1277.5	1258.6	1427.1	1710.6	1833.5	1630.3	1416.1	1331.0	1313.7
62.5°	8649.2	4673.5	1186.1	1192.4	1326.3	1579.9	1748.4	1554.7	1354.6	1279.0	1263.3
65°	7294.6	3857.6	1097.9	1124.7	1236.5	1477.5	1671.3	1491.7	1293.2	1239.7	1225.5
67.5°	5067.3	2784.9	1025.4	1053.8	1151.4	1373.5	1581.5	1423.9	1223.9	1195.6	1173.5
70°	2805.4	1713.8	940.4	973.5	1063.2	1257.0	1480.7	1321.6	1123.1	1110.5	1079.0
72.5°	1474.4	1091.6	844.3	880.5	943.5	1107.3	1326.3	1209.7	1023.9	970.3	929.3
74°	1151.4	894.7	779.7	817.5	860.0	1019.1	1234.9	1129.4	953.0	890.0	858.5
75°	1003.4	797.0	724.6	773.4	811.2	959.3	1164.0	1072.7	913.6	853.7	825.4
77.5°	708.8	597.0	592.3	650.5	671.0	841.1	1049.1	976.6	814.4	751.4	724.6
80°	497.8	447.3	469.4	505.6	534.0	743.5	973.5	844.3	667.9	593.8	584.4
82.5°	324.5	293.0	335.5	368.6	378.0	548.2	786.0	641.1	486.7	395.4	367.0
85°	149.6	146.5	192.2	187.4	185.9	267.8	466.2	374.9	280.4	209.5	196.9
87.5°	37.8	36.2	47.3	39.4	47.3	41.0	42.5	11.0	1.6	0.0	0.0
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)