

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: P652488

Luminaire Tested: **GALN-SA7B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30076.7 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

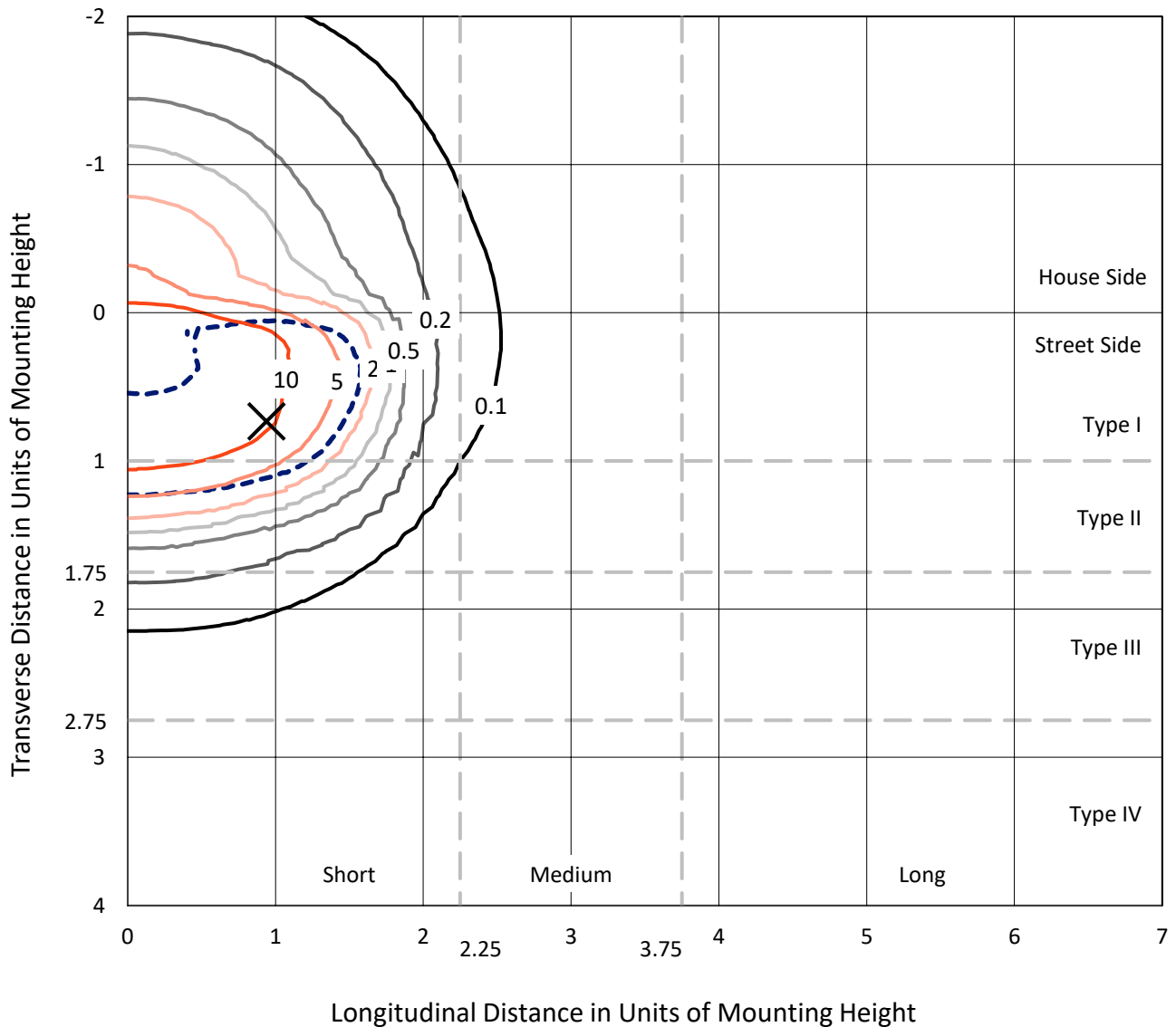
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

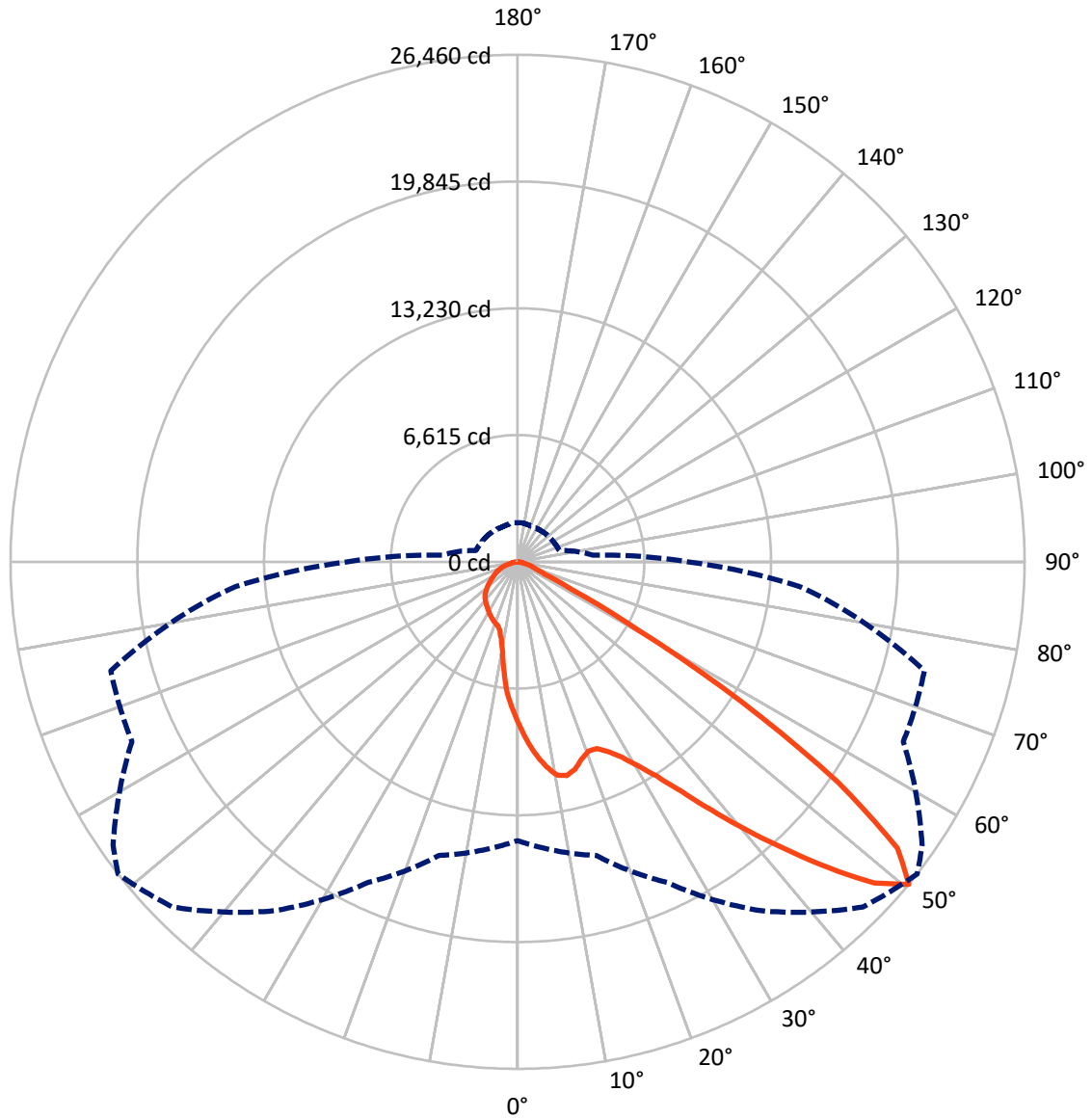
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5653.7	0.0	5653.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24423.0	0.0	24423.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	30076.7	0.0	30076.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.4	2.6
10°-20°	2094.4	7.0
20°-30°	3528.0	11.7
30°-40°	5920.2	19.7
40°-50°	9056.5	30.1
50°-60°	6602.9	22.0
60°-70°	1469.5	4.9
70°-80°	530.0	1.8
80°-90°	93.8	0.3
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°	30076.7	100.0
0°-180°	30076.7	100.0

Coefficient of Utilization

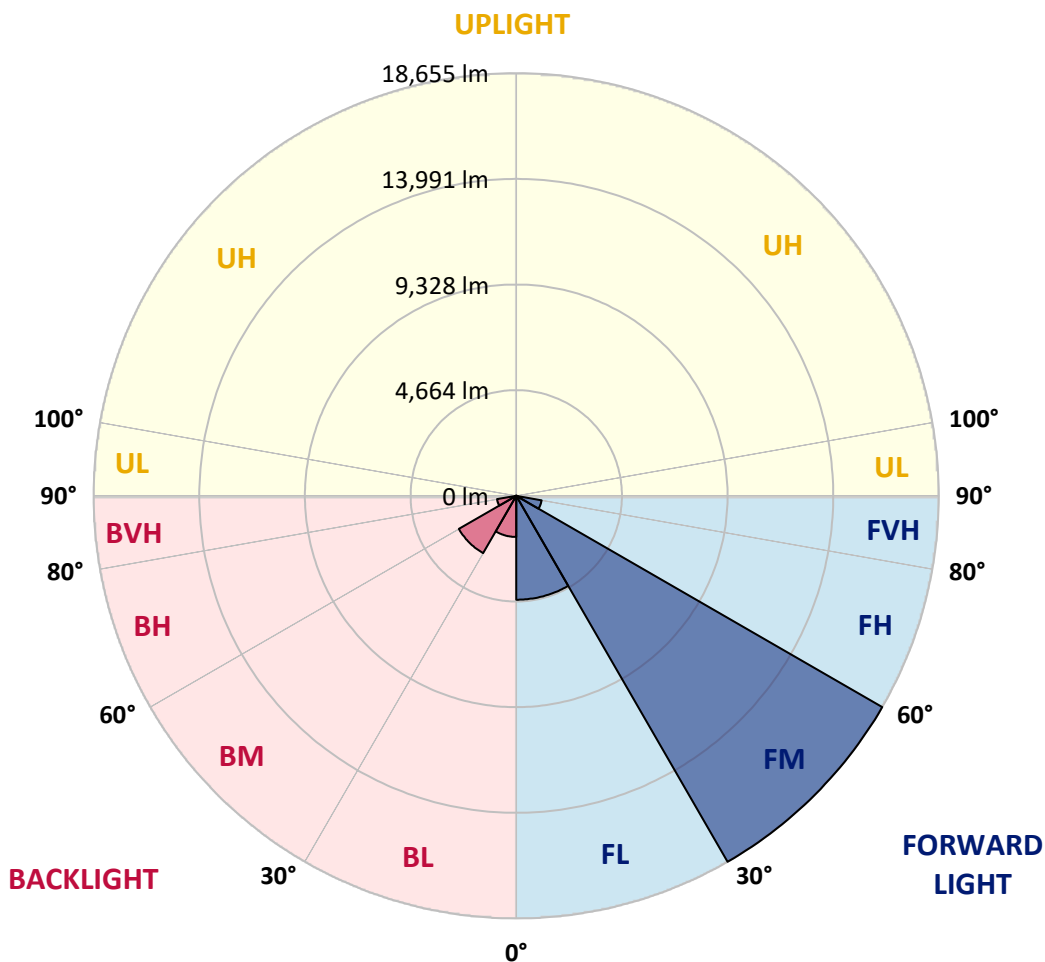


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4587.7	15.3			
FM (30°-60°)	18655.1	62.0			
FH (60°-80°)	1138.1	3.8			G1/1800
FVH (80°-90°)	42.0	0.1			G1/100
BL (0°-30°)	1816.1	6.0	B3/2500		
BM (30°-60°)	2924.5	9.7	B3/5000		
BH (60°-80°)	861.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	51.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	9982.3	9790.2	9812.0	9674.3	9525.7	9482.2	9329.9	9184.9	9076.2	8844.2	8630.3
5°	10910.3	10852.3	10765.3	10656.6	10544.2	10268.7	10112.9	9931.6	9532.9	9174.0	8818.8
7.5°	11044.3	11033.5	11080.6	11080.6	11120.5	11015.4	10794.3	10667.4	10243.3	9659.7	9000.0
10°	10102.0	10134.6	10363.0	10660.2	11073.4	11359.7	11323.5	11290.8	10826.9	10029.5	9213.9
12.5°	9351.7	9279.2	9413.3	9667.0	10286.9	10979.2	11446.8	11450.4	11330.7	10620.3	9369.7
15°	8927.6	8978.3	9014.6	9134.2	9601.8	10402.8	11225.6	11468.5	11994.1	11037.1	9616.2
17.5°	9199.4	9029.1	9021.8	9050.8	9290.0	9891.8	10816.0	11232.9	12356.6	11573.6	9920.8
20°	9554.7	9551.0	9449.6	9413.3	9409.7	9946.1	10547.8	11113.2	12548.6	12269.5	10228.8
22.5°	10178.1	10178.1	10011.3	9931.6	9761.2	10199.8	10584.1	10968.2	12867.6	12748.0	10377.4
25°	11222.0	11051.7	10765.3	10569.5	10471.7	10627.5	10968.2	11312.6	13146.7	13255.4	10685.6
27.5°	12186.2	11917.9	11776.6	11439.5	11309.0	11218.4	11530.1	11878.0	13472.9	14045.6	10852.3
30°	13280.8	13233.7	12980.0	12545.0	12222.4	12055.7	12342.0	12686.4	14071.0	14853.9	11236.5
32.5°	15238.2	14810.4	14466.1	13933.3	13407.6	13052.5	13335.1	13563.6	15064.2	15698.4	11656.9
35°	17351.3	17213.6	16619.2	15658.6	14853.9	14534.9	14701.7	14872.1	16220.5	16988.9	12363.8
37.5°	19428.3	19239.8	18750.4	17942.1	16963.5	16314.6	16434.3	16633.6	17518.0	18728.7	13226.4
40°	20921.6	20689.7	20443.2	20323.5	19352.2	18464.1	18395.2	18446.0	19272.4	20359.8	14183.4
42.5°	21030.4	21316.7	21392.9	21874.9	21646.6	20918.0	20493.9	20504.8	20947.0	21972.8	15151.1
45°	20802.1	20537.4	21099.3	22415.0	23169.0	23509.7	22795.6	22705.0	21983.7	22907.9	15633.3
47.5°	18406.1	18478.6	19428.3	21508.8	23687.3	25209.6	25042.9	24742.1	22538.2	22875.4	15557.1
50°	14549.5	14988.0	15868.8	18460.5	22237.4	25477.8	26460.1	25764.2	22208.4	21976.4	14781.4
52.5°	9688.7	9870.0	10449.9	13795.5	17880.5	22773.9	24829.0	24988.5	21903.9	20798.4	13799.1
55°	4313.4	4298.9	5114.5	7205.9	11218.4	17329.6	20287.3	21258.7	20733.2	19598.7	12842.2
57.5°	1826.8	1888.5	2221.9	3113.6	5516.8	10457.2	13744.8	14596.6	15944.9	16093.5	9851.9
60°	1236.0	1243.3	1333.9	1558.6	2308.9	4911.4	7209.5	8231.6	9195.8	9130.6	5226.8
62.5°	971.4	996.8	1065.6	1156.3	1370.2	2229.2	3226.0	3795.0	3856.7	3244.1	1982.7
65°	830.1	833.7	902.6	978.7	1072.9	1297.7	1555.0	1584.0	1602.1	1544.1	1457.1
67.5°	685.1	692.3	746.7	833.7	920.6	993.1	1065.6	1101.9	1185.3	1348.4	1326.6
70°	543.7	554.6	601.7	674.2	754.0	797.4	888.0	920.6	996.8	1123.7	1174.4
72.5°	413.2	416.8	456.7	507.5	580.0	623.4	699.5	735.8	786.6	895.3	942.4
75°	297.2	308.1	337.1	362.5	373.3	402.3	474.8	514.7	587.2	634.3	638.0
77.5°	155.8	163.1	170.4	170.4	206.6	261.0	308.1	329.8	380.6	416.8	398.7
80°	61.6	65.3	83.3	112.4	145.0	188.5	221.1	231.9	275.5	297.2	308.1
82.5°	36.2	39.9	54.3	79.7	105.1	134.1	159.5	170.4	199.3	224.7	231.9
85°	18.1	21.8	32.6	50.7	68.9	83.3	79.7	76.1	76.1	72.5	76.1
87.5°	7.2	7.2	10.8	10.8	10.8	14.5	18.1	18.1	18.1	21.8	21.8
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°	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1	8478.1
2.5°	8489.0	8344.0	8209.9	7963.4	7695.2	7619.0	7307.4	7195.0	7115.3	7021.0	6992.0
5°	8532.4	8340.4	7909.0	7412.5	7017.4	6509.9	6176.5	5817.6	5556.7	5491.4	5473.2
7.5°	8623.1	8293.3	7550.2	6799.9	5991.6	5302.9	4777.3	4494.6	4244.5	4230.0	4204.7
10°	8724.6	8151.9	7158.8	5980.7	4947.7	4309.7	3994.4	3871.1	3809.6	3795.0	3787.8
12.5°	8808.0	8122.9	6720.2	5183.3	4208.3	3824.0	3729.8	3718.9	3744.3	3751.5	3766.0
15°	8844.2	8006.9	6190.9	4469.2	3747.9	3606.5	3646.4	3689.9	3708.1	3755.1	3718.9
17.5°	8913.1	7858.3	5538.5	3903.8	3490.6	3516.0	3584.8	3635.6	3664.6	3697.2	3650.0
20°	8949.3	7724.2	4925.9	3566.7	3399.9	3447.1	3541.3	3581.1	3617.4	3631.9	3577.5
22.5°	8916.7	7448.7	4385.9	3294.9	3313.0	3374.6	3457.9	3501.4	3479.7	3421.7	3389.1
25°	8829.7	7060.9	3824.0	3120.9	3189.7	3298.5	3363.7	3331.1	3291.2	3258.6	3247.7
27.5°	8826.1	6586.0	3418.1	2961.3	3084.6	3233.2	3211.4	3182.4	3200.6	3175.2	3146.2
30°	8844.2	6125.7	3084.6	2870.8	3008.5	3081.0	3106.3	3077.4	3099.1	3052.0	3066.5
32.5°	8749.9	5676.2	2867.1	2765.6	2917.8	2914.2	2997.6	3019.4	2968.6	2870.8	2885.2
35°	8789.9	5313.8	2682.3	2718.5	2816.3	2816.3	2881.6	2856.2	2722.1	2664.1	2678.7
37.5°	9065.3	4958.5	2591.6	2653.3	2718.5	2747.5	2725.8	2617.0	2584.4	2584.4	2591.6
40°	9326.3	4654.1	2537.3	2638.8	2627.9	2646.0	2486.5	2497.4	2497.4	2501.0	2482.9
42.5°	9558.3	4447.5	2493.8	2551.8	2569.9	2475.7	2377.8	2366.9	2392.3	2388.7	2374.1
45°	9641.6	4277.2	2432.2	2453.9	2468.4	2312.6	2265.4	2243.7	2272.6	2283.6	2298.0
47.5°	9322.7	4135.8	2363.3	2319.8	2290.8	2189.3	2127.6	2087.8	2124.0	2185.7	2200.1
50°	8913.1	3950.9	2254.6	2171.2	2109.6	2066.1	2022.6	1982.7	2008.1	2051.5	2040.7
52.5°	8307.7	3661.0	2116.8	2029.8	1924.7	1935.6	1895.7	1873.9	1888.5	1888.5	1877.6
55°	7445.1	3008.5	1884.8	1823.2	1736.2	1765.3	1772.5	1743.5	1714.5	1739.9	1718.1
57.5°	5081.8	2124.0	1681.8	1681.8	1594.9	1634.7	1631.1	1562.2	1493.4	1500.6	1486.1
60°	2939.6	1692.8	1551.4	1536.8	1446.3	1478.9	1486.1	1439.0	1333.9	1341.1	1326.6
62.5°	1671.0	1446.3	1355.6	1333.9	1315.7	1344.8	1344.8	1283.1	1192.5	1199.8	1185.3
65°	1420.9	1341.1	1210.6	1207.0	1199.8	1207.0	1178.0	1112.8	1033.0	1000.4	1004.1
67.5°	1290.3	1239.6	1112.8	1080.2	1058.4	1054.8	1000.4	938.8	902.6	873.5	869.9
70°	1130.9	1091.0	996.8	953.3	931.6	880.8	826.5	786.6	735.8	721.3	735.8
72.5°	895.3	891.7	855.5	808.3	761.2	721.3	674.2	619.8	572.7	561.8	536.5
75°	619.8	627.0	634.3	627.0	587.2	536.5	482.1	438.6	380.6	348.0	340.7
77.5°	406.0	416.8	427.7	413.2	387.9	340.7	304.4	250.1	206.6	181.2	177.6
80°	297.2	311.8	319.0	308.1	279.1	242.9	203.0	159.5	126.8	105.1	105.1
82.5°	228.3	242.9	250.1	231.9	203.0	174.0	145.0	112.4	87.0	68.9	65.3
85°	79.7	76.1	90.6	94.3	112.4	105.1	87.0	65.3	50.7	36.2	32.6
87.5°	21.8	21.8	25.4	25.4	21.8	18.1	18.1	18.1	14.5	10.8	10.8
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)