

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: P458241

Luminaire Tested: **GALN-SA9C-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47120 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

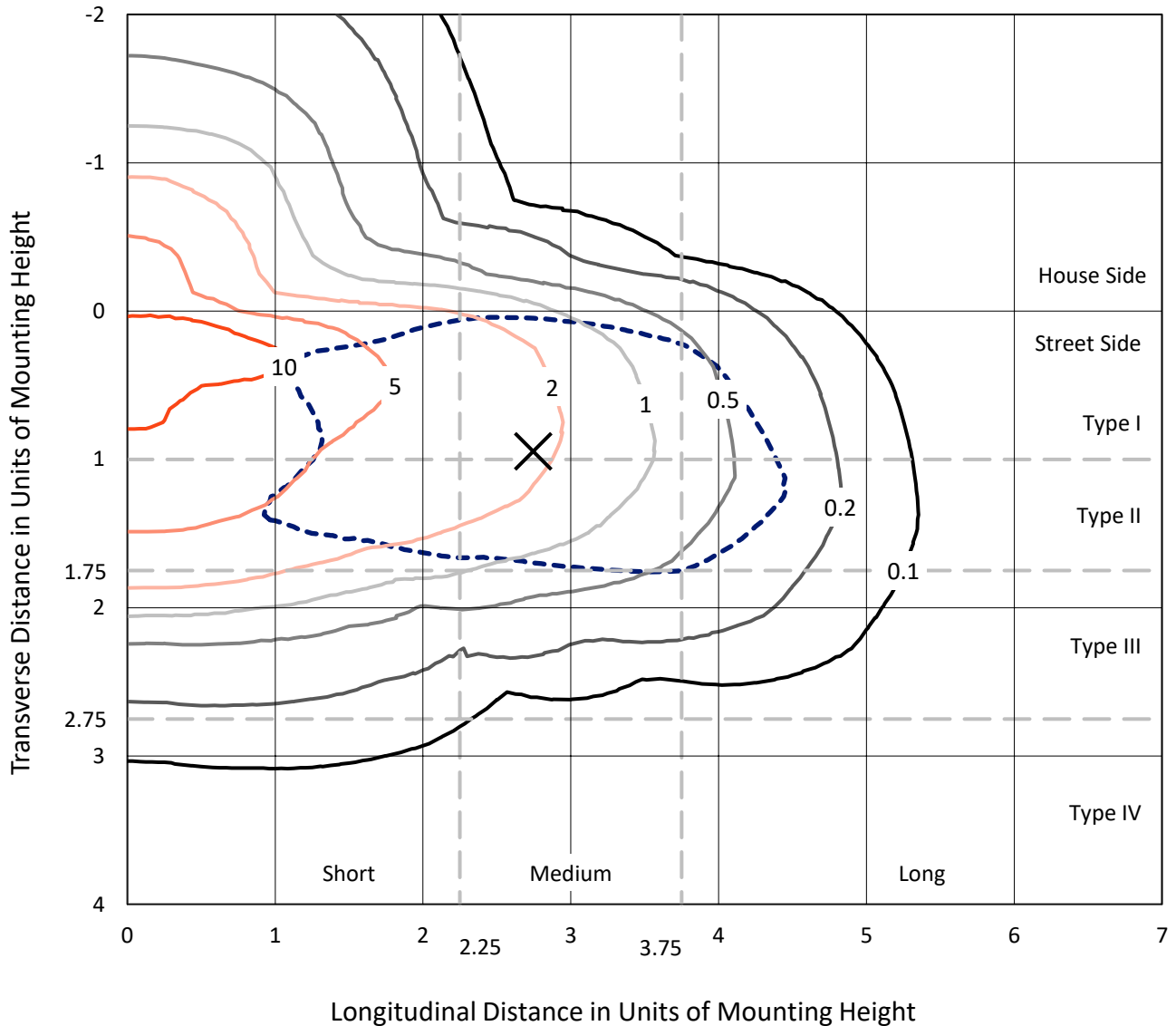
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

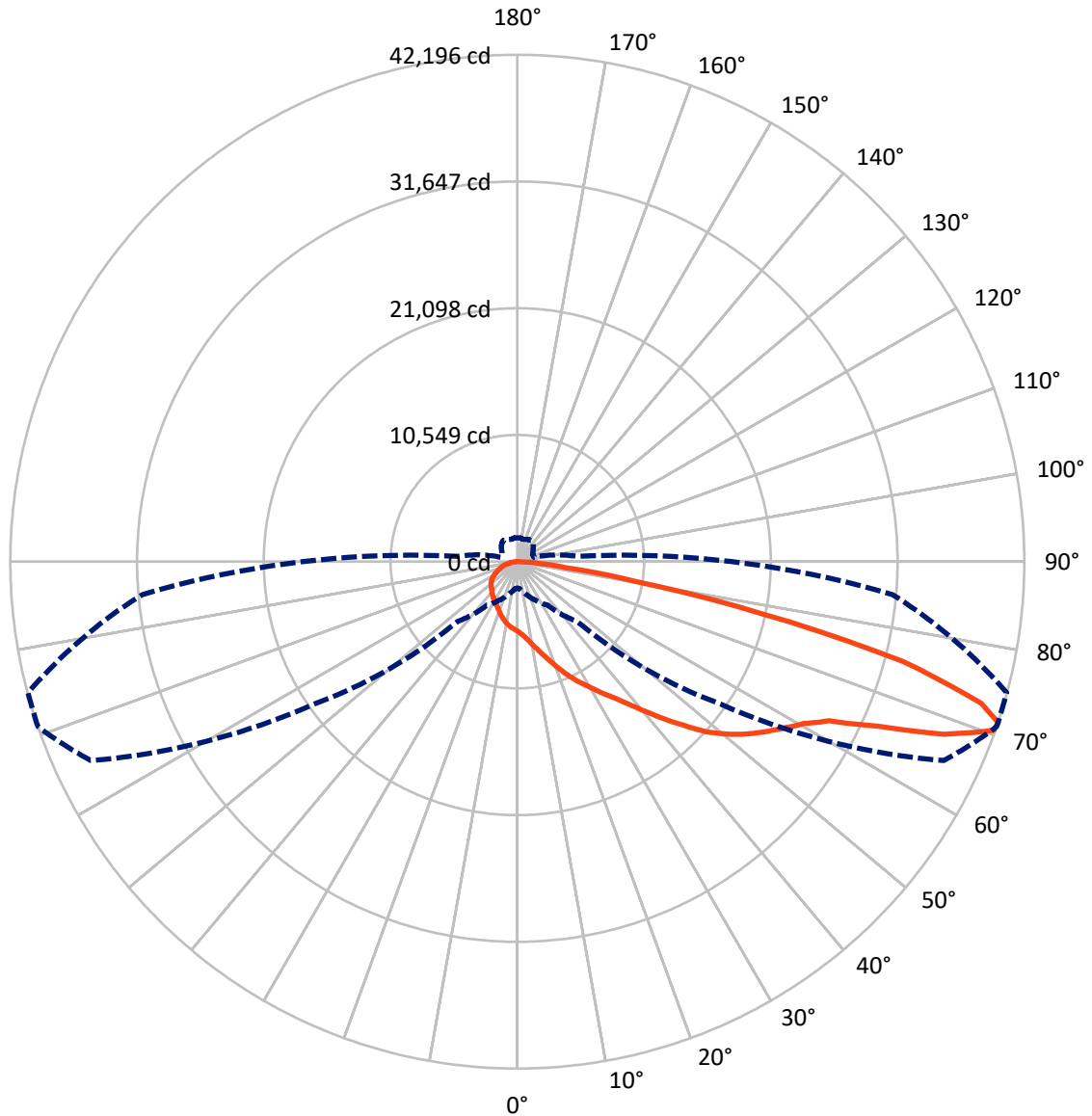
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8474.4	0.0	8474.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	38645.6	0.0	38645.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	47120.0	0.0	47120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.7	1.2
10°-20°	1886.5	4.0
20°-30°	3296.8	7.0
30°-40°	4903.6	10.4
40°-50°	7224.8	15.3
50°-60°	10114.9	21.5
60°-70°	11313.2	24.0
70°-80°	6910.5	14.7
80°-90°	889.0	1.9
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°	47120.0	100.0
0°-180°	47120.0	100.0

Coefficient of Utilization



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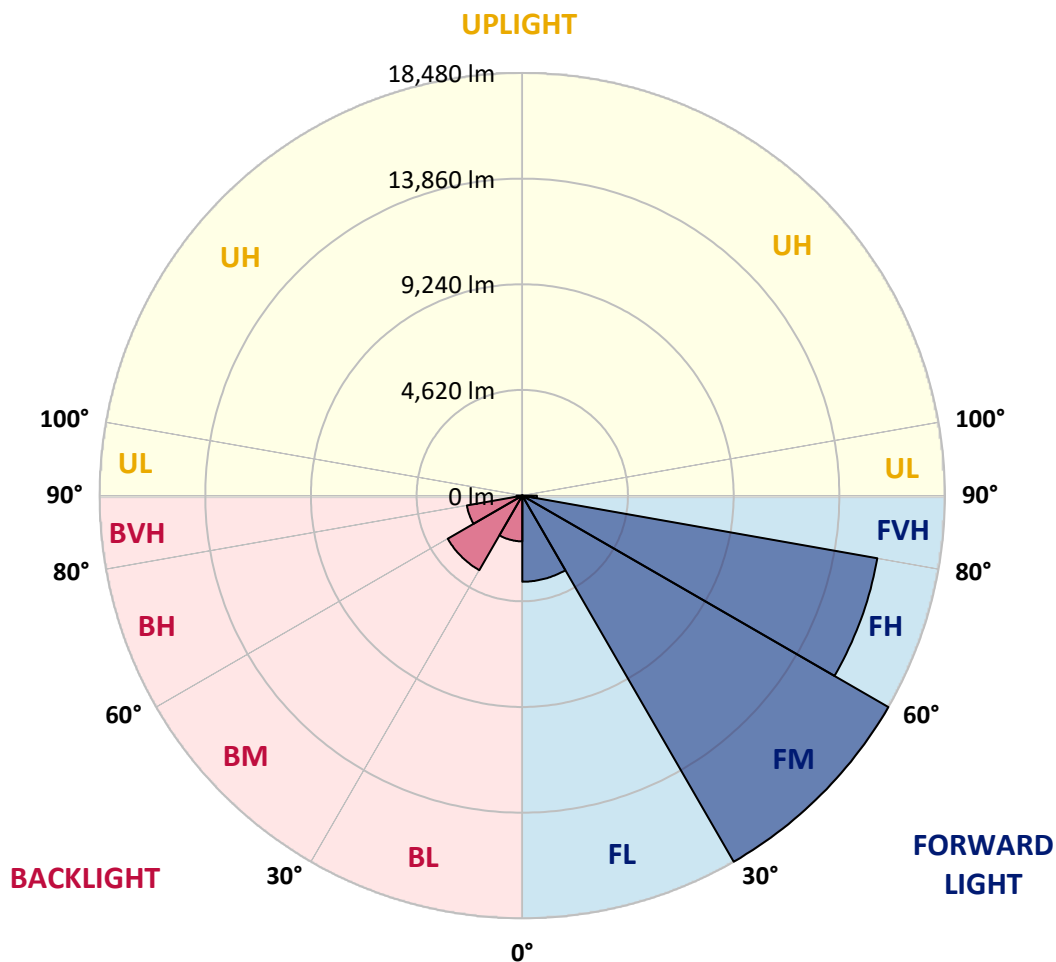
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3764.9	8.0			
FM	(30°-60°)	18479.5	39.2			
FH	(60°-80°)	15761.5	33.4			G5
FVH	(80°-90°)	639.6	1.4			G4/750
BL	(0°-30°)	1999.1	4.2	B3/2500		
BM	(30°-60°)	3763.8	8.0	B3/5000		
BH	(60°-80°)	2462.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	249.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1
2.5°	6420.1	6389.1	6391.7	6347.6	6290.7	6228.5	6140.4	6062.8	6000.6	5964.3	5858.2
5°	7114.2	7083.1	7044.3	6948.5	6907.0	6754.2	6560.0	6383.9	6249.2	6174.1	5961.7
7.5°	7676.2	7668.4	7658.1	7603.7	7497.5	7285.1	7119.4	6813.8	6614.4	6471.9	6109.4
10°	8023.2	8036.2	8044.0	8054.3	8010.3	7898.9	7671.0	7285.1	7031.3	6850.1	6301.0
12.5°	8199.3	8212.3	8256.3	8352.1	8411.7	8398.8	8212.3	7834.2	7484.6	7246.3	6505.6
15°	8308.1	8328.8	8406.5	8533.4	8732.8	8859.7	8769.1	8419.5	8036.2	7753.9	6749.1
17.5°	8427.2	8450.6	8536.0	8717.3	8978.9	9253.4	9351.8	9051.4	8634.4	8297.8	7021.0
20°	8494.6	8525.7	8647.4	8885.6	9191.2	9590.1	9916.4	9758.4	9302.6	8929.7	7334.3
22.5°	8603.4	8629.3	8732.8	8986.6	9351.8	9851.6	10481.0	10447.3	10045.9	9564.2	7678.8
25°	8898.6	8940.0	8991.8	9144.6	9496.8	10118.4	10949.7	11182.8	10765.8	10227.2	7994.8
27.5°	9455.4	9489.1	9486.5	9507.2	9706.6	10348.9	11356.3	11910.5	11480.6	10897.9	8300.3
30°	10089.9	10102.9	10113.2	10066.6	10110.6	10584.6	11729.3	12630.5	12200.6	11586.8	8567.1
32.5°	10861.7	10887.6	10799.5	10680.4	10644.1	10934.2	12037.4	13350.5	13052.7	12286.1	8831.3
35°	11773.3	11840.6	11661.9	11452.1	11304.5	11436.6	12451.8	14086.0	13925.4	13179.6	9180.9
37.5°	12814.4	12897.3	12731.5	12319.7	12110.0	12146.2	12993.1	14995.0	15028.7	14197.4	9701.4
40°	13666.4	13775.2	13780.4	13197.7	12879.1	12920.6	13679.4	15974.0	16359.8	15456.0	10315.2
42.5°	14228.4	14334.6	14446.0	14104.1	13770.0	14005.7	14479.6	17035.8	17856.8	16984.0	11172.4
45°	14844.8	14940.6	15002.8	14847.4	14660.9	15272.1	15445.6	18164.9	19452.1	18690.7	12110.0
47.5°	15559.6	15665.8	15725.3	15577.7	15507.8	16383.2	16486.7	19219.0	21156.2	20348.2	13145.9
50°	16512.6	16592.9	16561.8	16468.6	16453.1	17235.2	17486.4	20205.7	22562.4	22132.5	14220.7
52.5°	17698.8	17794.6	17828.3	17696.2	17636.6	17843.8	18291.8	21104.4	23841.8	23665.7	15367.9
55°	18416.2	18569.0	19081.7	19288.9	19431.4	18631.1	19159.4	22096.3	24989.1	25281.7	16600.7
57.5°	17496.8	17693.6	18840.9	19876.8	21215.7	20599.4	20389.6	23132.2	26136.4	26848.6	18076.9
60°	15254.0	15298.0	16776.8	18685.5	21378.9	23129.6	22956.1	24779.3	27379.5	28428.4	20021.8
62.5°	10582.0	10675.2	12423.3	15468.9	19364.0	24041.2	27322.5	27622.9	29161.3	30792.9	22873.2
65°	5456.7	5335.0	6927.7	9722.2	14598.8	21876.1	30860.2	32851.8	33025.3	34491.1	26887.4
67.5°	3359.0	3413.4	4159.2	5676.9	8631.8	15898.9	30489.9	39240.8	38326.6	39031.1	30614.2
70°	2522.5	2589.8	3102.6	3884.7	5262.5	9090.2	24520.3	40789.5	42066.3	41885.0	31748.5
71°	2193.6	2263.5	2797.0	3535.1	4420.8	7015.8	20658.9	39168.3	42195.8	42164.7	31321.2
72.5°	1869.8	1913.9	2330.8	2993.8	3726.7	4918.1	15520.7	35128.2	40395.9	41429.2	29795.8
75°	1468.4	1502.1	1688.6	2284.2	2934.3	3019.7	8328.8	26335.8	33178.1	35146.3	24805.2
77.5°	1196.5	1219.8	1315.6	1696.3	2263.5	2139.2	4369.0	17142.0	20785.8	22767.0	14611.7
80°	950.5	976.4	1033.3	1149.9	1696.3	1525.4	2084.8	8686.2	10040.7	10020.0	5832.3
82.5°	738.1	745.9	813.2	844.3	1160.2	1082.5	1129.2	3677.5	4073.8	4208.4	2105.5
85°	466.2	489.5	720.0	647.5	694.1	634.5	556.8	1460.7	1799.9	1774.0	841.7
87.5°	142.4	150.2	243.4	274.5	308.2	277.1	204.6	429.9	525.7	569.8	209.8
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°	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1	5783.1
2.5°	5816.7	5788.2	5687.2	5604.4	5526.7	5441.2	5368.7	5348.0	5329.8	5322.1	5319.5
5°	5871.1	5785.6	5586.2	5423.1	5293.6	5174.4	5099.3	5065.7	5032.0	5032.0	5042.4
7.5°	5948.8	5793.4	5485.2	5241.8	5078.6	4967.3	4912.9	4907.7	4915.5	4923.2	4925.8
10°	6034.3	5788.2	5337.6	5034.6	4889.6	4837.8	4840.4	4884.4	4925.8	4956.9	4962.1
12.5°	6117.1	5757.2	5164.1	4840.4	4747.1	4757.5	4830.0	4928.4	5008.7	5052.7	5055.3
15°	6210.4	5707.9	4954.3	4656.5	4625.4	4705.7	4840.4	4990.6	5112.3	5184.8	5192.6
17.5°	6288.1	5625.1	4734.2	4477.8	4516.6	4664.3	4850.7	5045.0	5192.6	5283.2	5298.8
20°	6376.1	5518.9	4506.3	4306.9	4418.2	4617.6	4830.0	5039.8	5192.6	5280.6	5301.3
22.5°	6446.0	5368.7	4288.7	4167.0	4330.2	4560.7	4760.1	4928.4	5052.7	5099.3	5130.4
25°	6474.5	5179.6	4084.1	4053.1	4260.2	4467.4	4602.1	4697.9	4736.8	4731.6	4744.5
27.5°	6459.0	4962.1	3908.0	3962.4	4172.2	4322.4	4389.7	4382.0	4312.0	4247.3	4278.4
30°	6394.2	4703.1	3760.4	3869.2	4058.2	4141.1	4130.8	4029.7	3897.7	3775.9	3783.7
32.5°	6277.7	4423.4	3623.1	3763.0	3897.7	3933.9	3864.0	3731.9	3542.9	3384.9	3361.6
35°	6179.3	4156.6	3501.4	3641.3	3737.1	3719.0	3651.6	3480.7	3309.8	3169.9	3146.6
37.5°	6163.8	3928.7	3384.9	3504.0	3558.4	3532.5	3449.6	3304.6	3242.4	3136.3	3123.3
40°	6246.6	3768.2	3265.8	3359.0	3384.9	3364.2	3273.5	3190.6	3247.6	3221.7	3221.7
42.5°	6471.9	3682.7	3159.6	3214.0	3234.7	3250.2	3185.5	3115.5	3185.5	3066.3	3027.5
45°	6829.3	3685.3	3063.7	3071.5	3133.7	3188.1	3144.0	3040.4	3004.2	2765.9	2719.3
47.5°	7355.1	3773.4	2986.1	2936.8	3048.2	3138.9	3076.7	2926.5	2765.9	2607.9	2579.5
50°	7968.9	3931.3	2916.1	2797.0	2934.3	3076.7	3030.1	2854.0	2688.2	2592.4	2574.3
52.5°	8650.0	4130.8	2830.7	2641.6	2794.4	3048.2	3040.4	2843.6	2615.7	2551.0	2535.4
55°	9491.7	4327.6	2724.5	2460.3	2670.1	3024.9	3012.0	2758.1	2600.2	2553.6	2548.4
57.5°	10470.6	4612.5	2571.7	2276.4	2527.7	2929.1	2900.6	2706.4	2548.4	2514.7	2512.1
60°	12047.8	5055.3	2354.1	2108.1	2382.6	2760.7	2797.0	2618.3	2465.5	2457.7	2455.1
62.5°	14122.2	5676.9	2128.8	1934.6	2214.3	2543.2	2646.8	2499.2	2377.4	2416.3	2421.5
65°	16986.6	6200.0	1895.7	1787.0	2027.8	2333.4	2504.3	2387.8	2279.0	2354.1	2354.1
67.5°	18853.8	6210.4	1683.4	1634.2	1838.8	2157.3	2354.1	2255.7	2152.1	2279.0	2284.2
70°	18465.4	5441.2	1507.3	1473.6	1654.9	1968.3	2188.4	2110.7	1991.6	2105.5	2064.1
71°	17838.6	5013.9	1437.3	1411.4	1582.4	1877.6	2110.7	2046.0	1926.8	2001.9	1978.6
72.5°	16839.0	4353.5	1323.4	1328.6	1473.6	1763.7	2001.9	1934.6	1815.5	1856.9	1849.1
75°	14233.6	3801.8	1131.7	1155.1	1266.4	1569.4	1784.4	1732.6	1610.9	1610.9	1603.1
77.5°	8898.6	2657.1	940.1	953.1	1074.8	1344.1	1533.2	1489.1	1372.6	1333.8	1323.4
80°	3320.1	1372.6	735.5	751.0	826.2	1059.2	1269.0	1227.6	1108.4	1064.4	1023.0
82.5°	1256.1	688.9	541.3	528.3	608.6	808.0	994.5	945.3	852.0	745.9	714.8
85°	473.9	341.9	331.5	321.1	357.4	479.1	616.4	606.0	507.6	432.5	424.7
87.5°	124.3	111.4	129.5	95.8	101.0	90.6	93.2	38.8	18.1	7.8	5.2
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)