

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: P534042

Luminaire Tested: **GALN-SA9C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534042
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-SA9C-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 49488 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

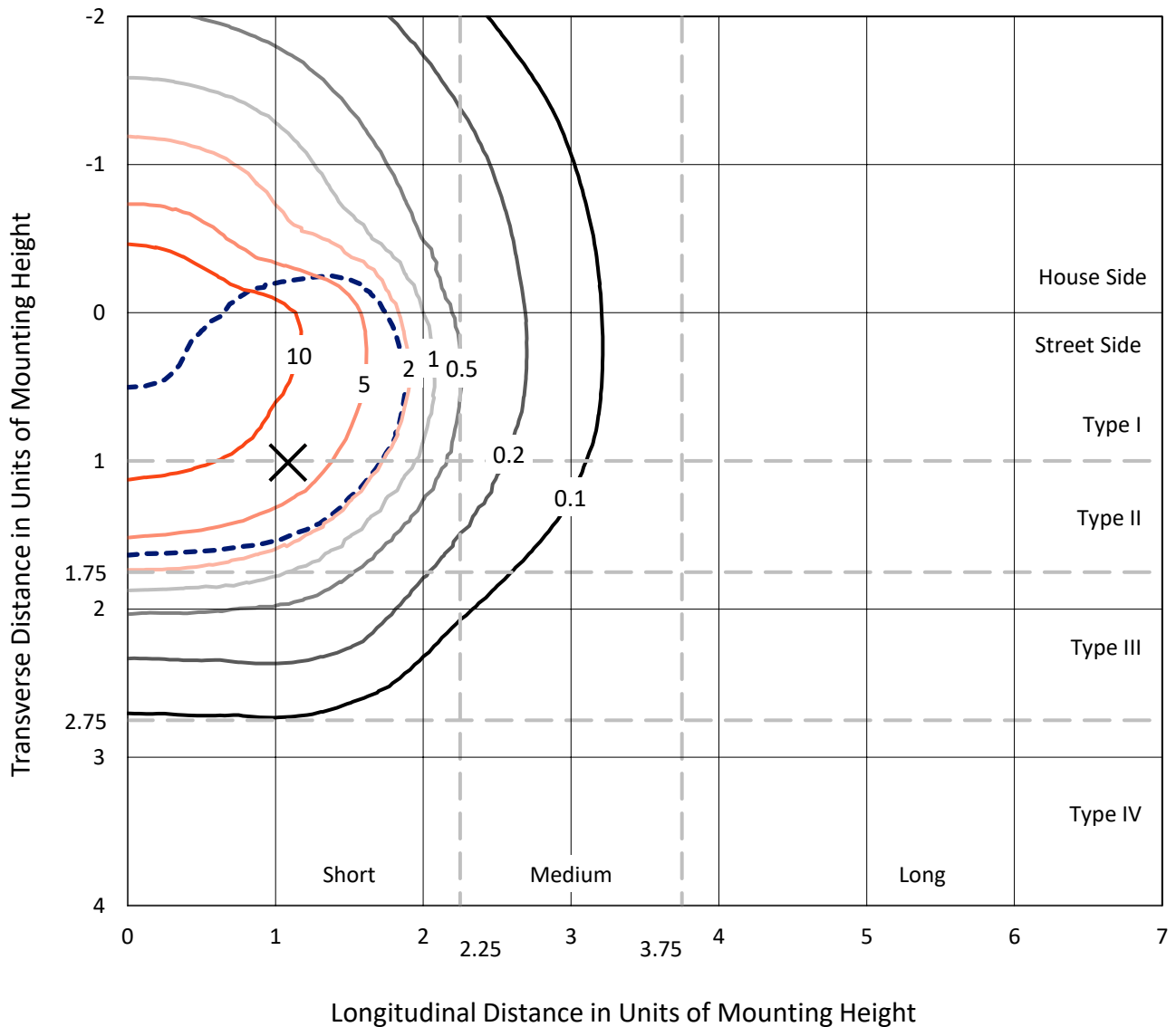
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

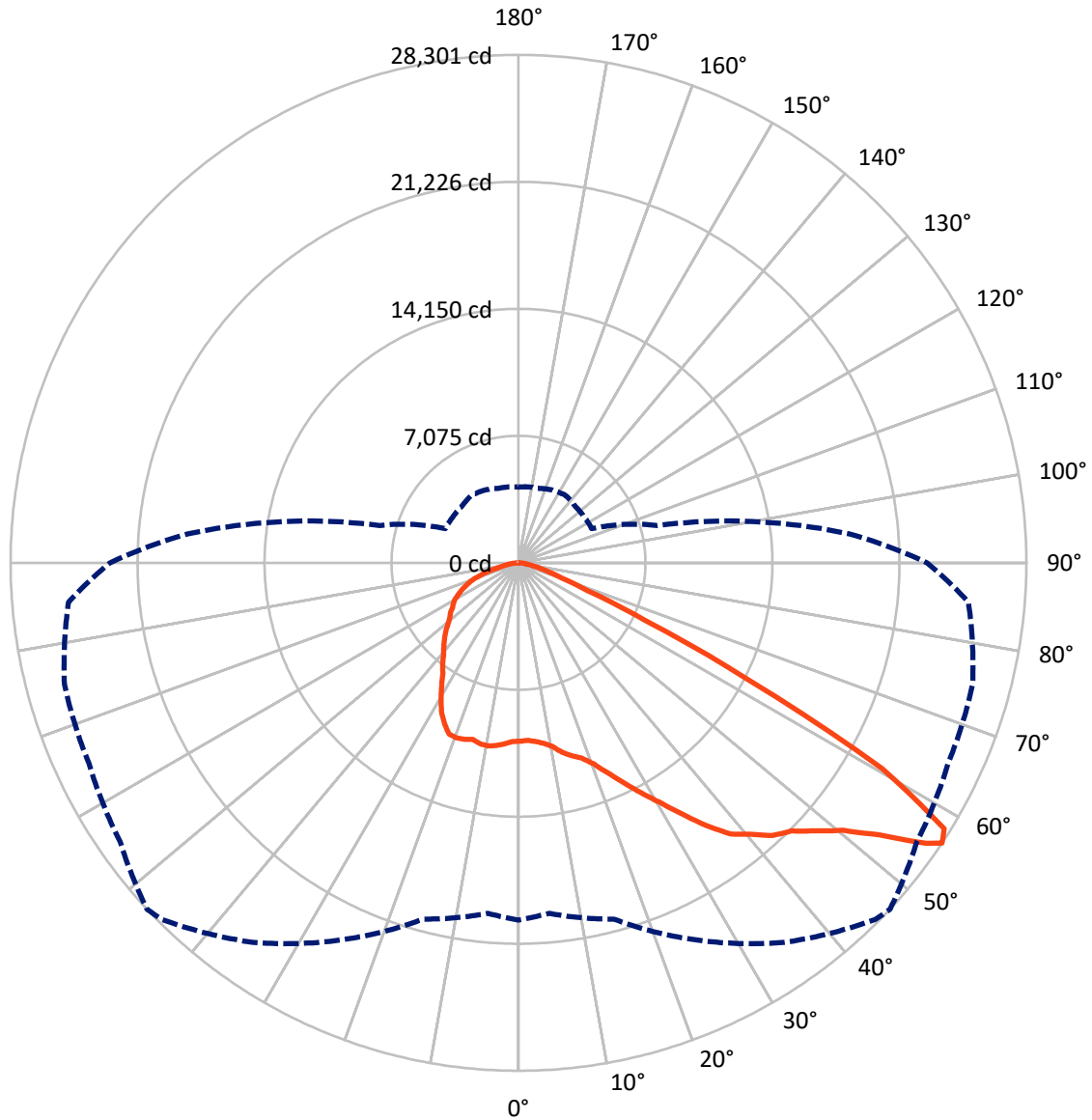
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	15682.1	0.0	15682.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	33805.8	0.0	33805.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	49488.0	0.0	49488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.6	2.0
10°-20°	3055.4	6.2
20°-30°	5401.2	10.9
30°-40°	8112.4	16.4
40°-50°	11133.5	22.5
50°-60°	13264.1	26.8
60°-70°	5676.2	11.5
70°-80°	1606.4	3.2
80°-90°	270.3	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°	49488.0	100.0
0°-180°	49488.0	100.0

Coefficient of Utilization



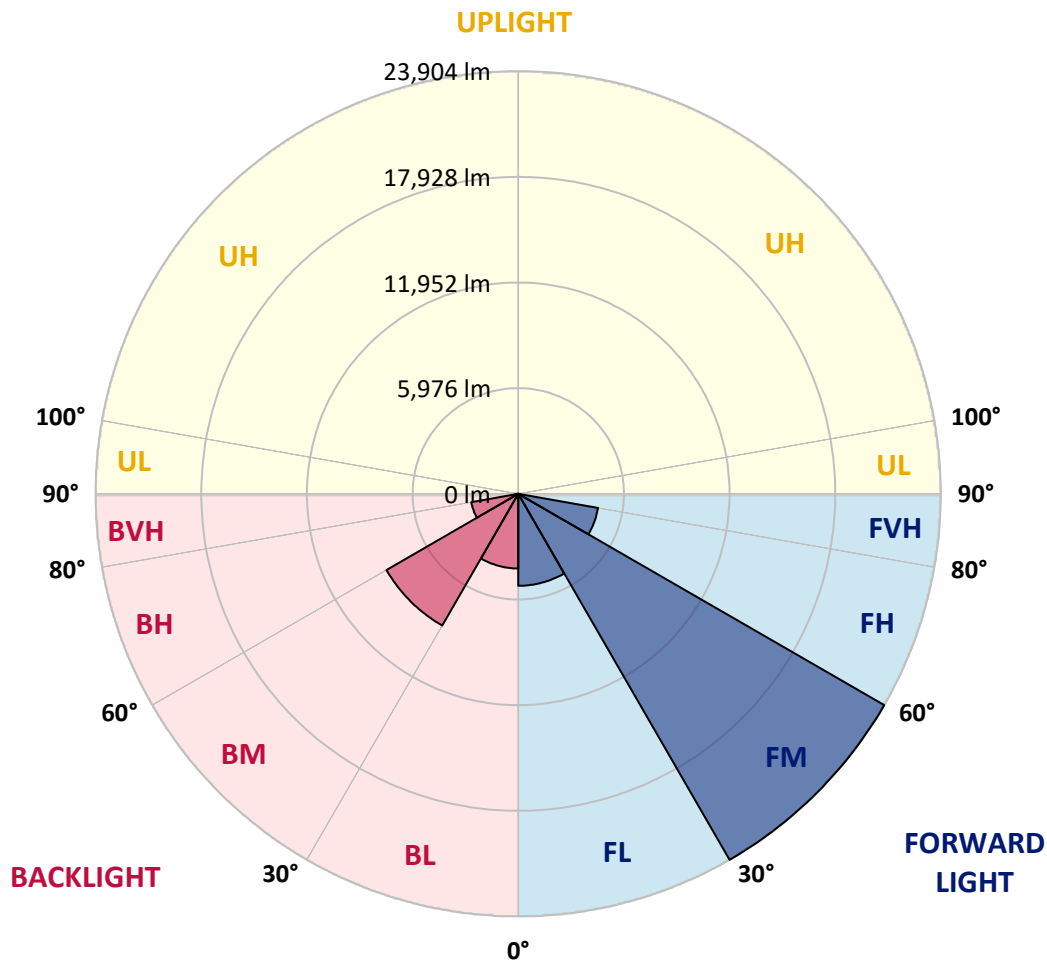
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5202.9	10.5			
FM (30°-60°)	23903.8	48.3			
FH (60°-80°)	4584.4	9.3			G2/5000
FVH (80°-90°)	114.7	0.2			G2/225
BL (0°-30°)	4222.3	8.5	B4/5000		
BM (30°-60°)	8606.1	17.4	B5		
BH (60°-80°)	2698.2	5.5	B4/5000		G4/5000
BVH (80°-90°)	155.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6
2.5°	9902.8	9883.8	9871.2	9972.2	9934.3	9940.6	9902.8	9940.6	9965.9	9909.1	9991.1
5°	9883.8	9940.6	9890.1	9921.7	10003.8	9978.5	10003.8	10079.5	10060.6	10041.6	10016.4
7.5°	10060.6	10066.9	10104.7	10117.4	10142.6	10117.4	10155.2	10224.7	10205.7	10098.4	10111.0
10°	10313.0	10325.6	10331.9	10401.4	10445.6	10451.9	10407.7	10344.6	10338.3	10483.4	10382.4
12.5°	10603.3	10571.8	10647.5	10672.8	10723.3	10780.1	10836.9	10704.3	10786.4	10792.7	10672.8
15°	11026.2	11057.8	10969.4	10969.4	10988.3	10994.7	11152.4	11089.3	11076.7	11007.3	11057.8
17.5°	11657.4	11442.8	11436.5	11348.1	11335.5	11386.0	11442.8	11493.3	11663.7	11524.8	11253.4
20°	12118.1	12168.6	11985.6	11878.3	11897.2	12010.8	11954.0	12181.2	12301.1	12073.9	11808.8
22.5°	12932.3	12761.9	12806.1	12566.2	12585.2	12705.1	12698.8	12932.3	13001.7	12642.0	12257.0
25°	13481.4	13437.2	13475.1	13285.7	13311.0	13405.7	13557.1	13942.1	13828.5	13430.9	12541.0
27.5°	14283.0	14194.6	14163.0	14093.6	14068.4	14320.8	14497.5	14907.8	14825.7	14245.1	13045.9
30°	15103.5	15046.7	15078.2	14794.2	14895.2	15431.7	15482.1	16043.9	16006.0	14983.5	13607.6
32.5°	15671.5	15703.0	15759.9	15602.1	16050.2	16479.4	16649.8	17287.2	17318.8	16252.2	14693.2
35°	16586.7	16479.4	16510.9	16694.0	16902.2	17684.9	17962.6	18385.4	18650.5	17583.9	15734.6
37.5°	17161.0	17274.6	17142.1	17432.4	17975.2	18915.6	19168.1	19603.6	19881.3	18896.7	17154.7
40°	18057.2	17874.2	17968.9	18177.2	18732.6	19957.0	19887.6	20335.7	20424.1	20013.8	18480.1
42.5°	19022.9	18934.5	18802.0	19275.4	19742.4	20632.3	20771.2	20562.9	21011.0	21105.7	20373.6
45°	20177.9	20285.2	20304.1	20316.8	20727.0	21503.3	21314.0	21131.0	21648.5	22336.5	21547.5
47.5°	21250.9	20910.0	21156.2	21497.0	22077.7	22084.0	22304.9	21869.4	22418.5	23030.7	22607.8
50°	21610.6	21446.5	21774.7	22418.5	23314.7	23409.4	23434.7	22816.1	23100.1	23586.1	22973.9
52.5°	21471.8	21415.0	22254.4	23251.6	24564.4	25044.1	25170.3	24406.6	24564.4	24343.5	23781.8
55°	20809.1	20979.5	21825.2	23857.5	25870.9	27354.1	27593.9	26628.3	25624.7	25795.2	25176.6
56°	19900.2	19603.6	20550.3	23169.6	25814.1	28105.2	28300.8	27095.3	26413.7	26192.8	25164.0
57.5°	16883.3	16498.3	17741.7	20846.9	24381.4	27821.2	27966.3	27291.0	26281.1	25833.0	23327.4
60°	9883.8	10073.2	11651.1	14377.6	18808.3	22809.8	23295.8	23788.1	23112.8	21105.7	17363.0
62.5°	4771.5	4651.6	5781.3	8242.8	11461.7	14560.7	14415.5	15797.7	16555.1	14996.2	10963.1
65°	2499.4	2486.7	3155.8	4500.1	6298.9	7649.6	7782.1	8526.9	9568.3	7725.3	5566.8
67.5°	1836.7	1887.1	2221.7	3162.1	4052.0	4134.0	4115.1	4487.5	4588.5	3881.6	3420.8
70°	1439.0	1464.3	1710.4	2404.7	3016.9	2701.3	2644.5	2688.7	2985.3	3111.6	2960.1
72.5°	1041.4	1066.6	1274.9	1622.1	1887.1	1843.0	1880.8	2127.0	2493.0	2625.6	2467.8
75°	694.3	713.2	826.8	990.9	1117.1	1205.5	1274.9	1558.9	1899.8	1975.5	1899.8
77.5°	479.7	498.6	574.3	700.6	713.2	770.0	795.3	927.8	1136.1	1230.7	1180.3
80°	271.4	271.4	309.3	359.8	441.8	517.5	530.2	637.5	732.1	795.3	807.9
82.5°	126.2	132.5	164.1	220.9	290.3	359.8	372.4	441.8	511.2	574.3	593.3
85°	63.1	69.4	94.7	132.5	176.7	214.6	208.3	214.6	227.2	214.6	220.9
87.5°	18.9	18.9	25.2	31.6	25.2	31.6	31.6	37.9	44.2	50.5	56.8
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°	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6	9940.6
2.5°	9997.4	10016.4	9890.1	10010.1	9965.9	9959.6	10047.9	10035.3	10066.9	10054.2	9978.5
5°	10003.8	9959.6	10092.1	9972.2	10029.0	10148.9	10066.9	10256.2	10161.5	10224.7	10085.8
7.5°	10199.4	10212.0	10186.8	10237.3	10212.0	10268.8	10224.7	10268.8	10193.1	10199.4	10325.6
10°	10369.8	10331.9	10376.1	10313.0	10357.2	10338.3	10237.3	10205.7	10231.0	10199.4	10281.5
12.5°	10685.4	10616.0	10584.4	10508.7	10458.2	10268.8	10111.0	10022.7	10142.6	10161.5	10123.7
15°	11007.3	11013.6	10868.4	10698.0	10382.4	10098.4	10136.3	10167.9	10167.9	10218.3	10123.7
17.5°	11209.3	11209.3	11076.7	10735.9	10414.0	10249.9	10212.0	10111.0	10022.7	10010.1	10003.8
20°	11562.7	11455.4	11152.4	10729.6	10401.4	10325.6	10041.6	9801.8	9618.7	9555.6	9549.3
22.5°	11966.6	11695.2	11272.4	10742.2	10382.4	10275.1	9745.0	9385.2	9057.0	8918.2	8937.1
25°	12339.0	11903.5	11341.8	10685.4	10313.0	9795.5	9202.2	8703.6	8362.8	8249.1	8192.3
27.5°	12597.8	12124.4	11341.8	10735.9	10054.2	9259.0	8653.1	8015.6	7719.0	7643.2	7655.9
30°	12944.9	12402.1	11537.4	10628.6	9536.7	8564.7	7838.9	7422.3	7245.6	7182.5	7226.7
32.5°	13759.1	13128.0	11808.8	10369.8	8924.5	7870.5	7283.5	7050.0	6791.2	6665.0	6620.8
35°	14642.7	13815.9	12073.9	9934.3	8236.5	7239.3	6873.2	6658.6	6349.4	6210.5	6235.8
37.5°	15892.4	14699.5	12092.9	9214.8	7491.8	6885.9	6551.4	6216.8	5964.4	5749.8	5686.7
40°	17577.6	15905.0	12048.7	8457.4	6892.2	6469.3	6223.2	5806.6	5522.6	5371.1	5402.7
42.5°	19060.8	17318.8	11865.6	7599.1	6349.4	6185.3	5907.6	5497.3	5219.6	5061.8	5049.2
45°	20310.5	18360.2	11518.5	6866.9	5895.0	5869.7	5547.8	5232.2	5011.3	4866.2	4929.3
47.5°	21465.5	19199.6	10994.7	6134.8	5478.4	5528.9	5219.6	5024.0	4885.1	4752.6	4746.3
50°	21882.0	19187.0	10533.9	5528.9	5143.9	5118.6	5106.0	4897.7	4752.6	4639.0	4689.5
52.5°	22576.3	19401.6	10035.3	5112.3	4840.9	4847.2	4891.4	4739.9	4575.8	4506.4	4569.5
55°	23573.5	19433.2	8937.1	4626.3	4588.5	4632.7	4632.7	4531.7	4392.8	4336.0	4304.5
56°	22759.3	18492.7	8015.6	4500.1	4462.2	4462.2	4582.2	4468.6	4298.1	4254.0	4216.1
57.5°	20992.1	16201.7	6709.1	4348.6	4291.8	4380.2	4443.3	4323.4	4165.6	4102.5	4140.4
60°	14478.6	10963.1	5042.9	4020.4	4020.4	4165.6	4216.1	4039.4	3969.9	3963.6	3913.1
62.5°	8451.1	6387.3	3944.7	3723.8	3736.4	3856.3	3894.2	3793.2	3704.9	3812.2	3862.6
65°	4481.2	3812.2	3383.0	3408.2	3414.5	3509.2	3673.3	3667.0	3660.7	3692.2	3698.5
67.5°	3244.1	3168.4	3073.7	3048.5	3061.1	3130.5	3294.6	3420.8	3414.5	3338.8	3282.0
70°	2890.7	2783.4	2726.6	2732.9	2682.4	2764.4	2897.0	2979.0	2833.9	2745.5	2707.6
72.5°	2404.7	2373.1	2335.3	2341.6	2240.6	2221.7	2070.2	2070.2	2032.3	2007.1	2051.2
75°	1836.7	1824.0	1843.0	1811.4	1704.1	1590.5	1502.1	1420.1	1293.9	1243.4	1218.1
77.5°	1161.3	1199.2	1243.4	1173.9	1129.8	1047.7	959.4	877.3	776.3	719.5	719.5
80°	788.9	820.5	852.1	839.4	788.9	713.2	643.8	555.4	486.0	441.8	435.5
82.5°	599.6	624.8	669.0	618.5	568.0	504.9	448.1	385.0	321.9	271.4	271.4
85°	214.6	246.1	271.4	296.6	315.6	321.9	277.7	227.2	183.0	145.2	138.9
87.5°	56.8	63.1	69.4	63.1	63.1	63.1	69.4	63.1	56.8	44.2	44.2
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)