

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: P459525

Luminaire Tested: **GALN-SA9C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459525
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-SA9C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA 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: 59241 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

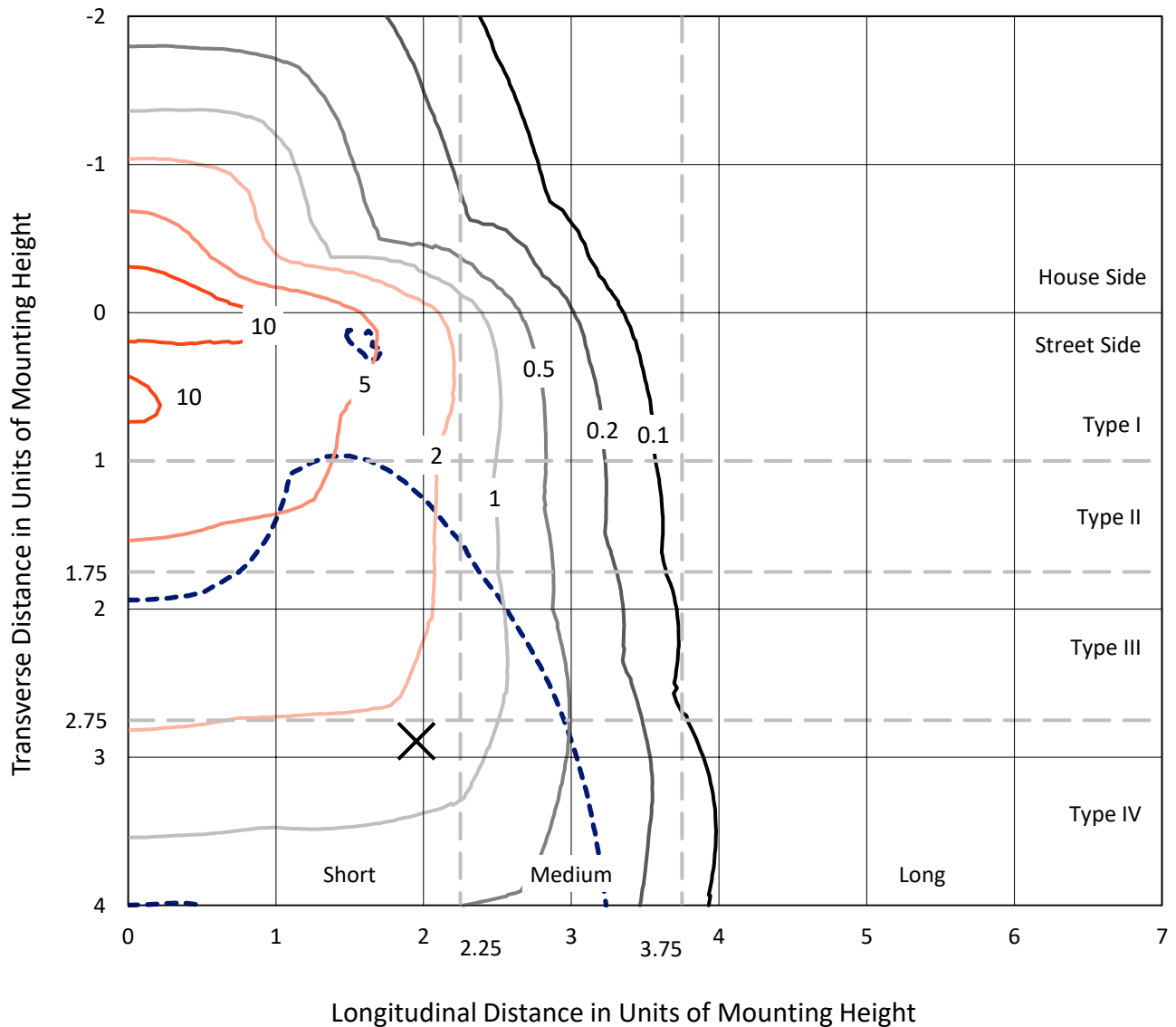
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459525
 CATALOG NUMBER: GALN-SA9C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

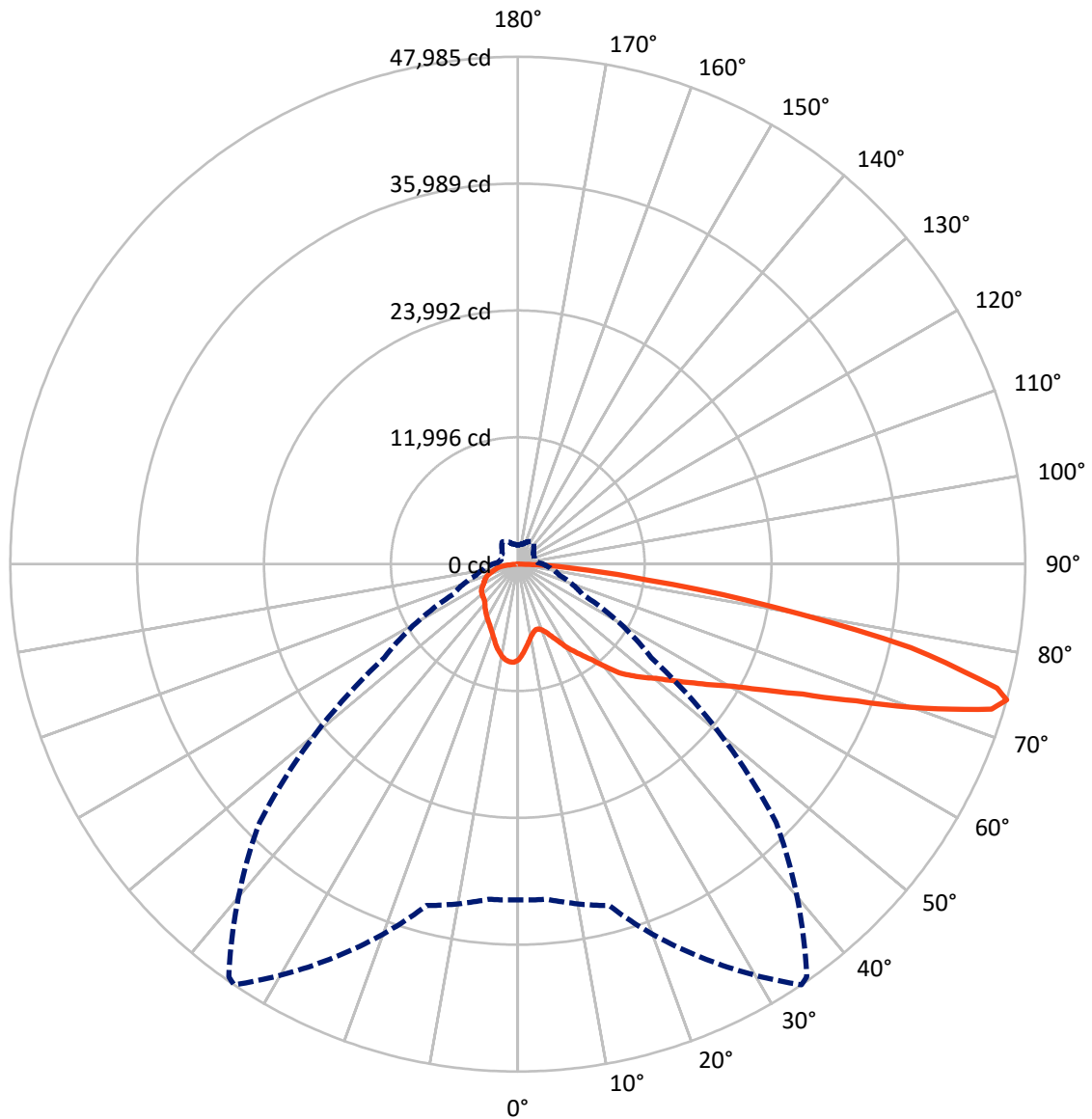
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P459525
CATALOG NUMBER: GALN-SA9C-735-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459525

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12606.9	0.0	12606.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	46634.1	0.0	46634.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	59241.0	0.0	59241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.6	1.4
10°-20°	2251.8	3.8
20°-30°	3712.7	6.3
30°-40°	5561.2	9.4
40°-50°	8084.4	13.6
50°-60°	11292.0	19.1
60°-70°	14137.0	23.9
70°-80°	11690.2	19.7
80°-90°	1689.1	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°	59241.0	100.0
0°-180°	59241.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459525

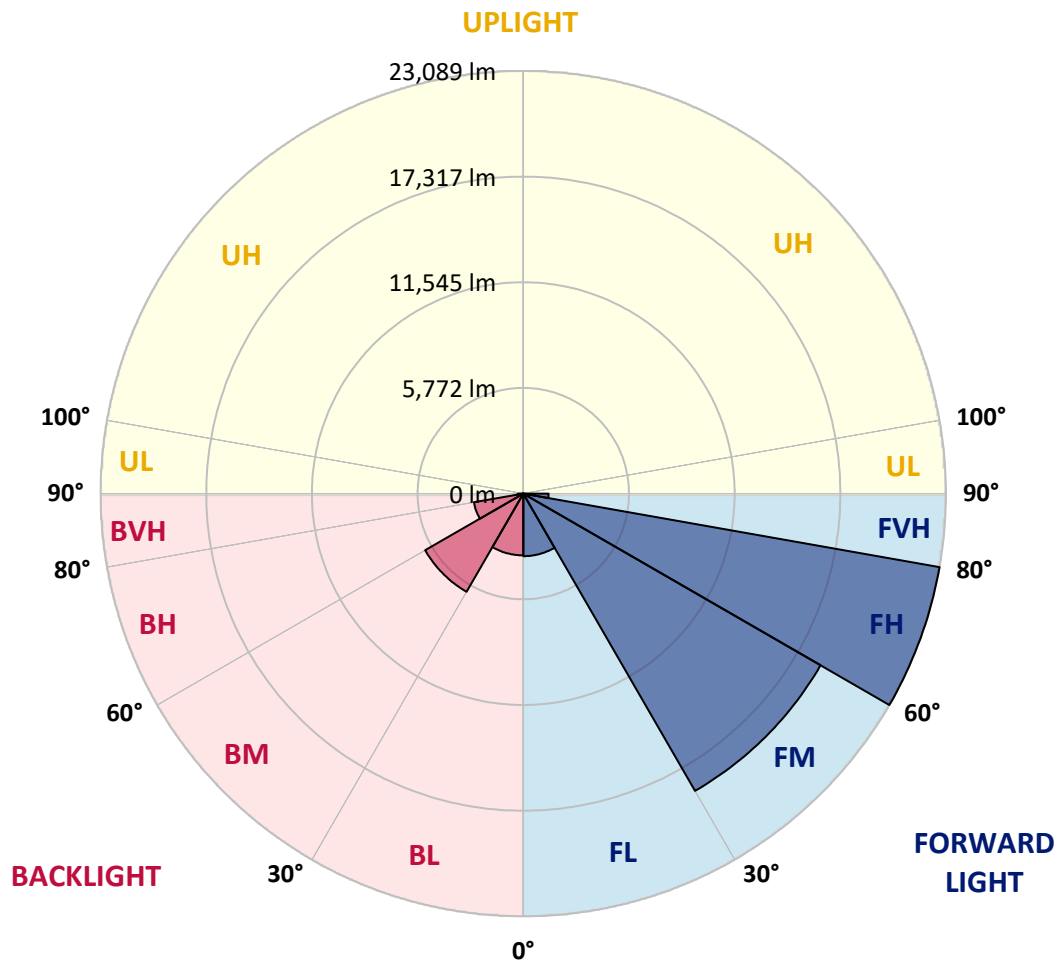
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.0	5.8			
FM (30°-60°)	18746.3	31.6			
FH (60°-80°)	23089.0	39.0			G5
FVH (80°-90°)	1383.8	2.3			G5
BL (0°-30°)	3372.1	5.7	B4/5000		
BM (30°-60°)	6191.3	10.5	B4/8500		
BH (60°-80°)	2738.1	4.6	B4/5000		G4/5000
BVH (80°-90°)	305.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P459525

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9
2.5°	8359.0	8401.7	8424.6	8506.7	8526.4	8552.6	8621.6	8713.5	8831.6	8936.6	9028.5
5°	7663.2	7728.9	7768.3	7840.5	7981.6	7994.7	8178.5	8388.5	8628.1	8851.3	9035.1
7.5°	7003.6	7075.8	7108.6	7239.9	7427.0	7456.5	7725.6	8057.1	8457.5	8795.5	9077.7
10°	6508.0	6544.1	6616.3	6714.8	6937.9	6957.6	7308.8	7751.9	8270.4	8769.2	9150.0
12.5°	6238.9	6258.6	6275.0	6380.0	6599.9	6629.4	6997.0	7499.2	8122.7	8788.9	9268.1
15°	6278.3	6284.8	6212.6	6232.3	6409.6	6452.2	6816.5	7331.8	8030.8	8838.2	9445.3
17.5°	6609.8	6586.8	6409.6	6317.7	6442.4	6462.1	6780.4	7266.1	7988.2	8930.1	9629.1
20°	7131.6	7098.8	6793.5	6590.1	6662.3	6678.7	6898.6	7315.4	8030.8	9081.0	9914.6
22.5°	7781.4	7768.3	7305.5	7059.4	7056.1	7056.1	7171.0	7492.6	8158.8	9287.8	10213.3
25°	8690.5	8621.6	8017.7	7699.3	7610.7	7604.2	7591.0	7784.7	8322.9	9507.7	10567.7
27.5°	9622.5	9504.4	8966.2	8477.2	8286.8	8263.8	8178.5	8198.2	8533.0	9757.1	10971.4
30°	10459.4	10383.9	9878.5	9337.0	9110.6	9058.1	8821.8	8713.5	8884.1	10206.7	11614.7
32.5°	11099.4	11053.5	10659.6	10167.3	9832.6	9822.7	9478.1	9389.5	9432.2	10751.5	12349.8
35°	11617.9	11634.4	11434.2	11007.5	10623.5	10567.7	10338.0	10226.4	10101.7	11539.2	13275.3
37.5°	12326.8	12362.9	12349.8	11982.2	11512.9	11526.0	11473.5	11289.8	10958.3	12418.7	14302.5
40°	13107.9	13134.2	13130.9	12989.8	12743.6	12756.8	12737.1	12527.0	12031.5	13537.9	15444.6
42.5°	14187.7	14063.0	13738.1	13879.2	14023.6	14085.9	14220.5	14020.3	13340.9	14732.5	16517.8
45°	15395.4	15159.1	14424.0	14489.6	15024.6	15142.7	15884.4	15608.7	14762.0	16104.3	17781.4
47.5°	16156.8	15923.8	15303.5	15290.4	15999.3	16114.2	17426.9	17325.2	16055.1	17584.4	19323.9
50°	16836.2	16803.4	16104.3	16271.7	16964.2	17134.8	19107.2	19012.1	17344.9	19330.4	21004.2
52.5°	17843.7	17577.9	17020.0	17364.6	18280.2	18503.4	20774.5	20495.5	18529.6	20872.9	22635.3
55°	18296.6	18234.3	18201.4	18500.1	19757.1	19917.9	22395.7	21755.7	19540.5	22179.1	23875.9
57.5°	19507.6	19392.8	19717.7	19921.2	21496.5	21742.6	24089.2	23071.8	20426.6	23216.2	24479.7
60°	21076.4	21014.0	21312.7	21680.3	23439.4	23813.5	26018.9	24194.2	21138.7	23738.0	24148.3
62.5°	23419.7	23413.1	23357.3	24145.0	26192.9	26537.5	28234.2	25287.1	21250.3	23347.5	22435.1
65°	26780.3	26662.2	26176.5	27036.3	29619.2	30022.9	30541.4	25897.5	20577.5	21342.2	18890.6
67.5°	30295.3	30288.7	29894.9	31010.7	34538.8	34955.6	33426.2	25763.0	18710.1	17289.1	13416.4
70°	33209.6	33068.5	33570.6	36544.0	40823.6	41306.1	35950.0	24177.8	14903.1	11417.7	7971.7
72.5°	33908.6	33915.2	34958.8	40810.5	46859.0	46934.5	36859.1	19596.3	9973.7	6298.0	3987.5
74°	31755.7	31811.5	33429.5	41023.8	47984.7	47643.4	34535.5	15402.0	6744.3	4112.2	2874.9
75°	28985.8	28634.6	30974.6	39602.7	46816.4	46448.8	31814.8	12359.7	5146.0	3285.2	2517.2
77.5°	15497.2	15854.9	19465.0	29553.6	38034.0	37610.6	21572.0	5927.1	2779.8	2287.5	1811.6
80°	5516.9	6084.7	8552.6	15464.3	24384.6	24515.8	10295.3	2717.4	1956.0	1686.9	1279.9
82.5°	2251.4	2313.7	3672.5	6862.5	12382.6	12500.8	4204.1	1614.7	1398.1	1161.8	764.7
85°	879.6	905.8	1624.5	3085.0	5283.9	5628.5	1453.9	853.3	859.9	666.2	390.5
87.5°	295.4	334.8	666.2	1027.2	1795.2	1759.1	423.4	252.7	308.5	288.8	121.4
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°	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9	9044.9
2.5°	9074.5	9136.8	9179.5	9225.4	9268.1	9281.2	9271.4	9300.9	9304.2	9307.5	9310.8
5°	9127.0	9212.3	9294.4	9340.3	9360.0	9343.6	9287.8	9258.3	9232.0	9212.3	9218.9
7.5°	9199.2	9320.6	9396.1	9415.8	9363.3	9287.8	9150.0	9041.6	8972.7	8926.8	8923.5
10°	9310.8	9428.9	9491.3	9435.5	9291.1	9107.3	8890.7	8687.2	8533.0	8487.0	8483.7
12.5°	9451.9	9586.4	9583.2	9419.1	9166.4	8838.2	8487.0	8250.7	8040.7	7935.6	7978.3
15°	9635.7	9737.4	9642.2	9346.9	8946.5	8496.9	8063.6	7742.0	7505.7	7394.1	7400.7
17.5°	9849.0	9937.6	9684.9	9218.9	8638.0	8060.4	7558.2	7253.0	7065.9	6983.9	6977.3
20°	10114.8	10141.1	9684.9	8995.7	8240.9	7551.7	7072.5	6859.2	6754.2	6711.5	6724.6
22.5°	10400.4	10347.8	9632.4	8680.6	7719.0	7020.0	6698.4	6603.2	6550.7	6544.1	6550.7
25°	10722.0	10574.3	9524.1	8254.0	7174.2	6560.5	6373.5	6389.9	6399.7	6399.7	6422.7
27.5°	11115.8	10820.4	9343.6	7715.8	6537.6	6133.9	6081.4	6196.2	6248.7	6258.6	6275.0
30°	11634.4	11089.6	9044.9	7043.0	5996.0	5749.9	5841.8	5996.0	6055.1	6091.2	6084.7
32.5°	12251.3	11384.9	8641.3	6370.2	5559.5	5480.8	5592.4	5749.9	5815.5	5835.2	5809.0
35°	12976.7	11719.7	8109.6	5740.1	5178.8	5224.8	5356.1	5405.3	5464.4	5464.4	5477.5
37.5°	13757.7	11988.8	7459.8	5162.4	4883.5	5050.9	5146.0	5100.1	5073.8	5041.0	5057.4
40°	14552.0	12189.0	6616.3	4591.4	4588.1	4870.3	4896.6	4765.3	4660.3	4627.5	4611.1
42.5°	15244.4	12313.7	5854.9	4148.3	4309.1	4693.1	4712.8	4502.8	4335.4	4236.9	4204.1
45°	16061.6	12458.1	5109.9	3780.8	4049.9	4552.0	4601.2	4319.0	4072.8	3866.1	3813.6
47.5°	17180.8	12786.3	4522.5	3495.2	3862.8	4463.4	4532.3	4168.0	3843.1	3574.0	3531.3
50°	18444.3	13235.9	4066.3	3301.6	3718.4	4384.6	4470.0	4013.8	3629.8	3331.1	3298.3
52.5°	19602.8	13478.8	3672.5	3127.7	3577.3	4240.2	4387.9	3902.2	3419.7	3088.3	3058.7
55°	20236.2	13085.0	3285.2	2957.0	3383.6	4053.2	4273.0	3747.9	3216.3	2960.3	2917.6
57.5°	20321.6	12271.0	2934.0	2773.2	3180.2	3823.4	4059.7	3560.9	3085.0	2871.7	2835.6
60°	19661.9	11056.7	2661.6	2622.2	2973.4	3564.1	3820.1	3396.8	2950.4	2773.2	2737.1
62.5°	18020.9	9737.4	2471.3	2484.4	2763.4	3291.8	3642.9	3239.2	2822.4	2664.9	2632.1
65°	15198.5	8037.4	2287.5	2343.3	2576.3	3078.4	3482.1	3108.0	2694.4	2582.9	2553.3
67.5°	10557.9	5802.4	2136.5	2195.6	2399.1	2861.8	3295.0	2966.8	2550.0	2491.0	2445.0
70°	5845.1	3570.7	1959.3	2028.2	2215.3	2619.0	3085.0	2753.5	2340.0	2313.7	2248.1
72.5°	3071.9	2274.4	1759.1	1834.6	1965.9	2307.2	2763.4	2520.5	2133.2	2021.7	1936.3
74°	2399.1	1864.1	1624.5	1703.3	1791.9	2123.4	2573.0	2353.1	1985.6	1854.3	1788.6
75°	2090.6	1660.6	1509.7	1611.4	1690.2	1998.7	2425.3	2235.0	1903.5	1778.8	1719.7
77.5°	1476.9	1243.8	1234.0	1355.4	1398.1	1752.5	2185.7	2034.8	1696.7	1565.5	1509.7
80°	1037.1	932.1	978.0	1053.5	1112.6	1549.1	2028.2	1759.1	1391.5	1237.3	1217.6
82.5°	676.1	610.4	699.0	768.0	787.7	1142.1	1637.7	1335.7	1014.1	823.8	764.7
85°	311.8	305.2	400.4	390.5	387.3	557.9	971.4	781.1	584.2	436.5	410.2
87.5°	78.8	75.5	98.5	82.0	98.5	85.3	88.6	23.0	3.3	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)