

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: P522931

Luminaire Tested: **GALN-SA9D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65377 lumens
Efficiency: N/A
Efficacy: 118.4 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

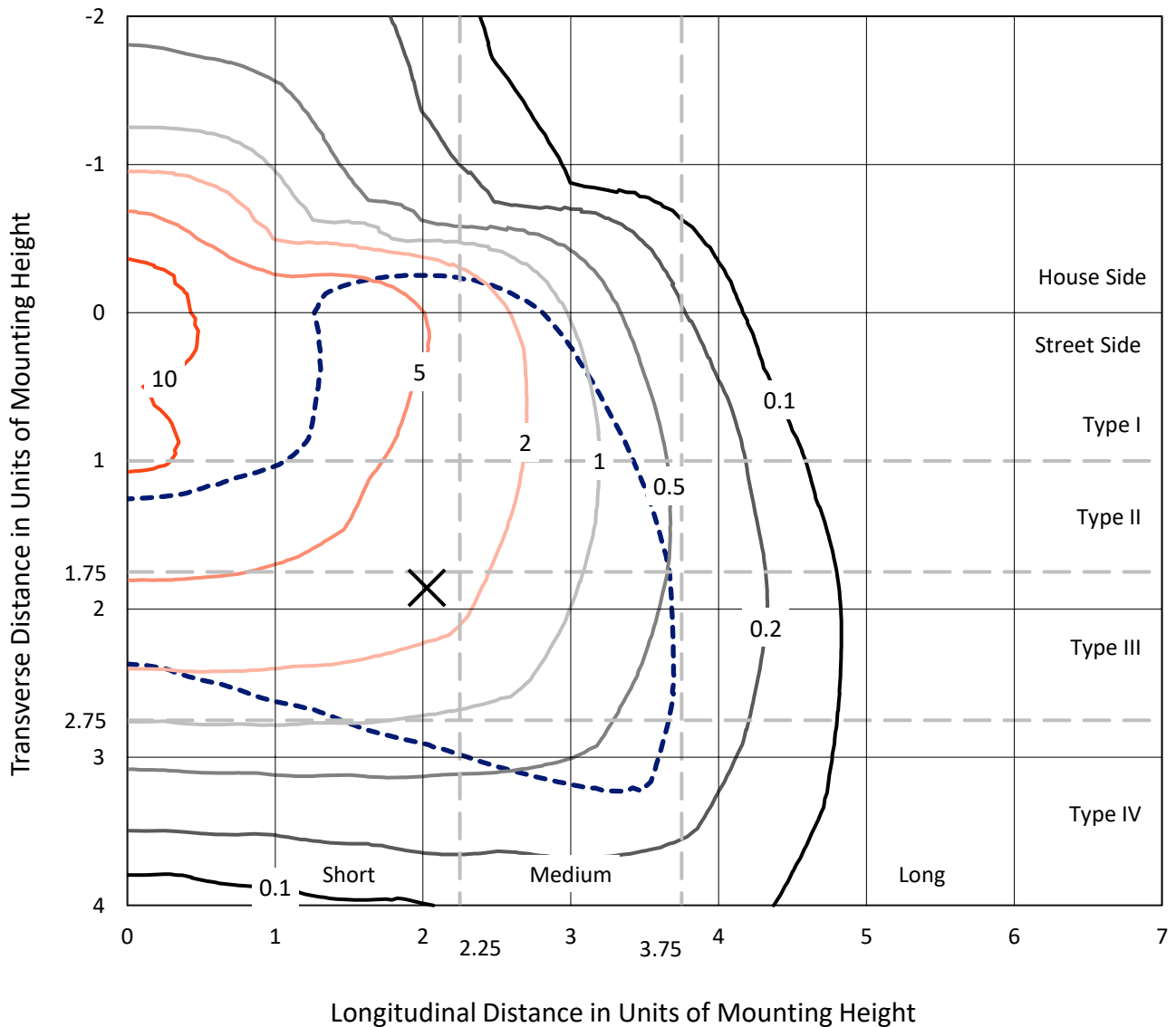
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522931
 CATALOG NUMBER: GALN-SA9D-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

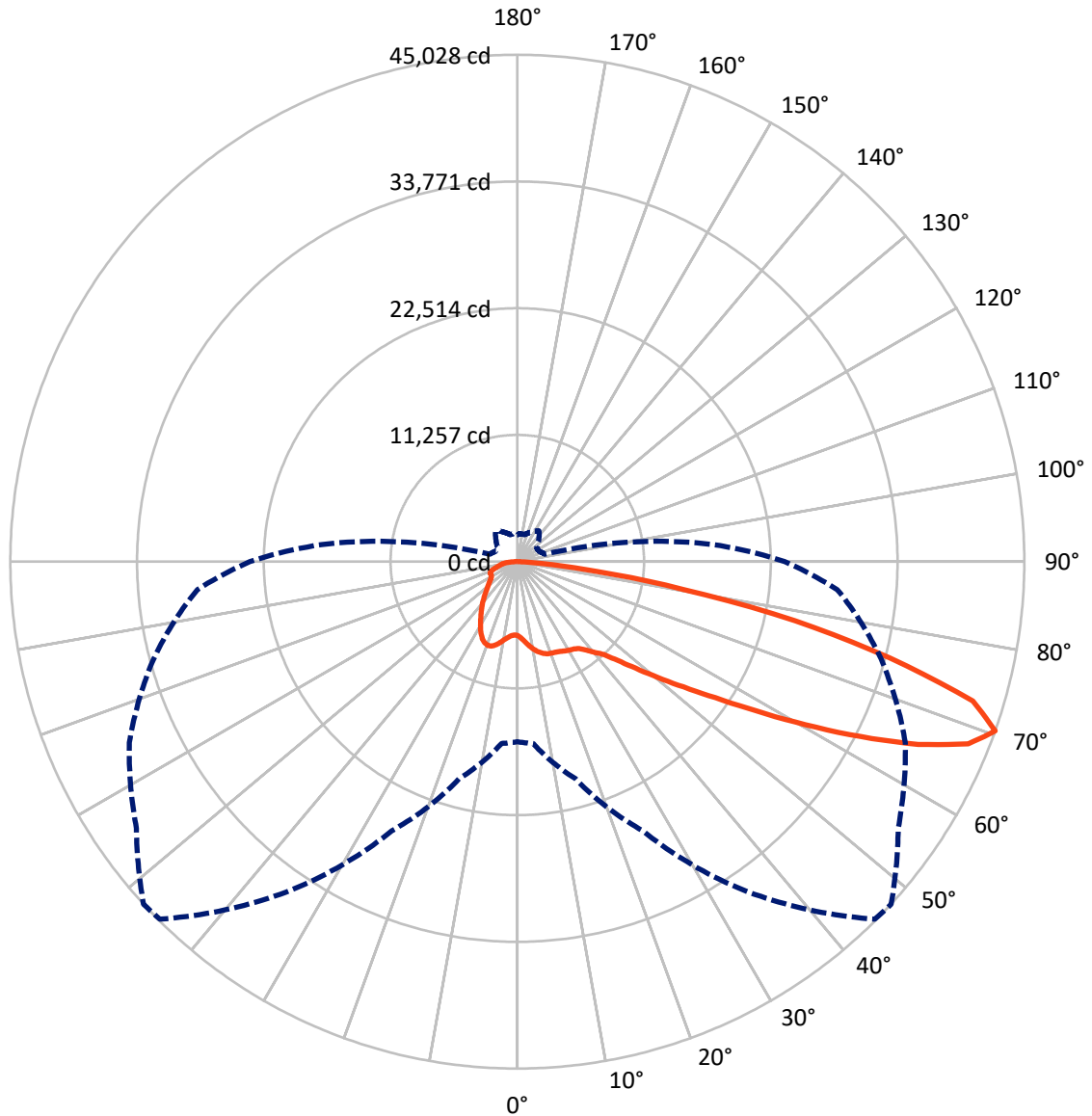
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P522931
CATALOG NUMBER: GALN-SA9D-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522931

CATALOG NUMBER: GALN-SA9D-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14802.6	0.0	14802.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	50574.4	0.0	50574.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	65377.0	0.0	65377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.5	1.0
10°-20°	2261.7	3.5
20°-30°	3761.1	5.8
30°-40°	5330.8	8.2
40°-50°	7869.4	12.0
50°-60°	13630.1	20.8
60°-70°	19252.9	29.4
70°-80°	11067.6	16.9
80°-90°	1527.1	2.3
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°	65377.0	100.0
0°-180°	65377.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522931

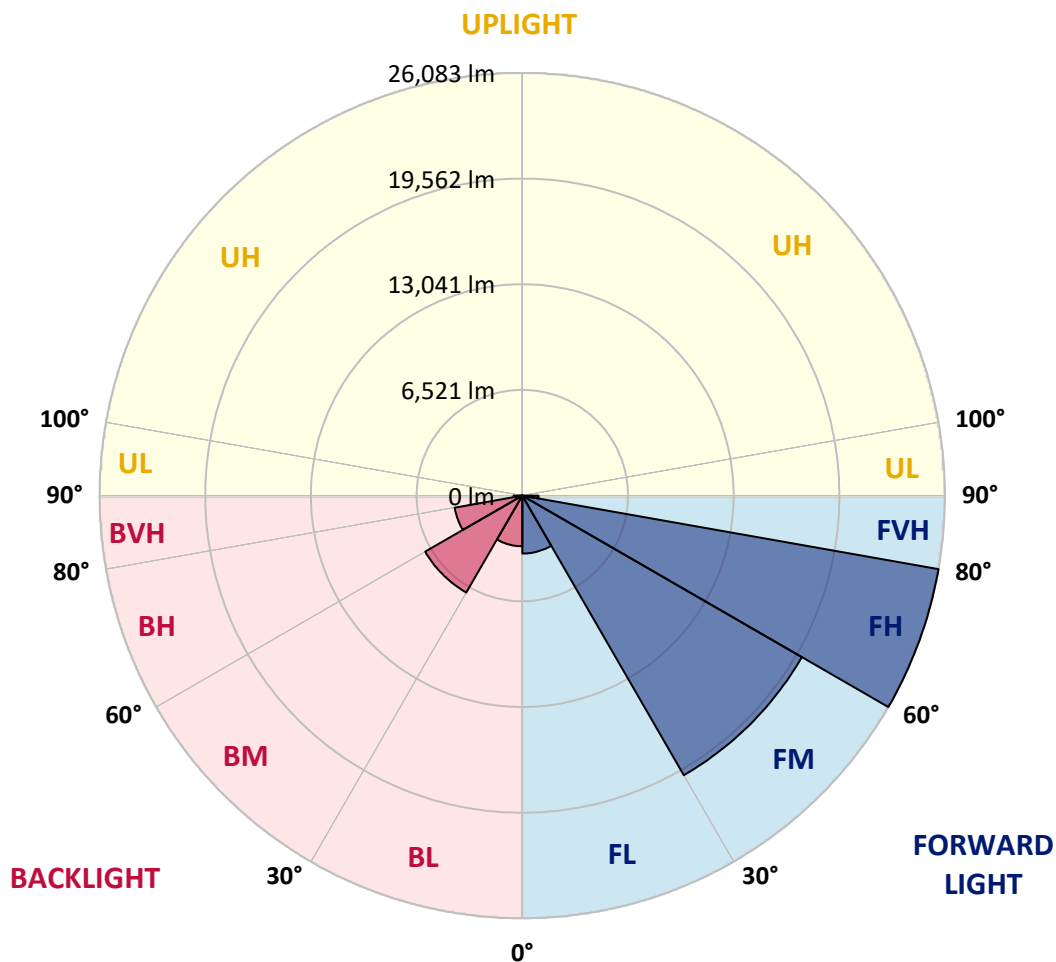
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3575.1	5.5			
FM	(30°-60°)	19919.1	30.5			
FH	(60°-80°)	26082.7	39.9			G5
FVH	(80°-90°)	997.5	1.5			G5
BL	(0°-30°)	3124.2	4.8	B4/5000		
BM	(30°-60°)	6911.1	10.6	B4/8500		
BH	(60°-80°)	4237.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	529.5	0.8			G4/750
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: P522931

CATALOG NUMBER: GALN-SA9D-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1
2.5°	6986.4	6961.9	6958.4	6905.9	6877.9	6825.4	6804.5	6755.5	6696.0	6636.5	6580.6
5°	7535.6	7535.6	7511.1	7437.7	7322.2	7203.3	7150.8	7056.3	6888.4	6752.0	6636.5
7.5°	8098.9	8105.9	8056.9	7948.4	7784.0	7591.6	7542.6	7402.7	7164.8	6965.4	6794.0
10°	8585.2	8585.2	8518.7	8371.8	8165.3	7955.4	7906.5	7749.0	7483.2	7234.8	7010.9
12.5°	8956.0	8956.0	8868.5	8676.1	8452.2	8263.3	8207.3	8056.9	7808.5	7532.1	7248.8
15°	9197.4	9179.9	9081.9	8865.0	8648.1	8483.7	8445.2	8319.3	8091.9	7812.0	7493.6
17.5°	9207.9	9200.9	9106.4	8924.5	8735.6	8623.6	8599.2	8515.2	8336.8	8070.9	7735.0
20°	9005.0	9019.0	8956.0	8826.6	8735.6	8686.6	8676.1	8648.1	8522.2	8273.8	7937.9
22.5°	8788.1	8812.6	8753.1	8683.1	8676.1	8725.1	8732.1	8739.1	8658.6	8417.2	8109.4
25°	8735.6	8753.1	8693.6	8630.6	8669.1	8798.6	8826.6	8854.5	8791.6	8588.7	8312.3
27.5°	9001.5	8987.5	8872.0	8735.6	8760.1	8935.0	8973.5	9005.0	8973.5	8798.6	8564.2
30°	9753.6	9708.2	9477.3	9078.4	8952.5	9074.9	9113.4	9200.9	9200.9	9071.4	8837.0
32.5°	11013.1	10925.6	10502.3	9718.7	9281.3	9207.9	9246.4	9389.8	9463.3	9361.8	9106.4
35°	12541.9	12450.9	11845.7	10792.7	9883.1	9473.8	9463.3	9624.2	9820.1	9592.7	9260.4
37.5°	14077.7	13983.2	13255.6	12073.1	10761.2	10033.5	9970.5	10026.5	10110.5	9694.2	9473.8
40°	15613.5	15501.6	14864.9	13504.0	11835.2	10775.2	10610.8	10358.9	10323.9	10026.5	9886.6
42.5°	17135.3	17033.9	16712.0	15109.7	13122.6	11499.4	11247.5	10813.7	10946.6	10768.2	10645.7
45°	18671.1	18678.1	18335.3	16911.4	14675.9	12835.8	12496.4	11817.7	12132.6	12066.1	12136.1
47.5°	20032.0	20014.5	19892.1	18660.7	16603.6	14557.0	14119.7	13332.5	13871.3	14116.2	14651.4
50°	21350.9	21340.5	21347.5	20644.3	18842.6	16603.6	16120.8	15295.2	16509.1	17359.2	18317.8
52.5°	23240.1	23299.6	22876.3	22690.8	21564.4	19021.0	18489.2	17635.6	19626.2	20966.1	22837.8
55°	25136.3	25087.3	24754.9	24947.3	24412.1	21882.7	21326.5	20647.8	23096.7	24562.5	27375.3
57.5°	26252.3	26269.7	26609.1	27550.2	27928.0	25451.1	24947.3	24422.6	26997.4	28036.5	31412.4
60°	27256.3	27336.8	28312.8	30090.0	31115.1	29834.7	29386.9	28876.1	30576.3	30989.1	34917.9
62.5°	27571.2	27819.6	29523.3	32182.1	34221.7	34781.4	34225.2	33098.7	33983.8	33822.9	37293.3
65°	26000.4	26339.7	29393.9	32965.8	36996.0	39476.3	39123.0	37030.9	36887.5	35918.4	37681.6
67.5°	21865.2	22204.6	26126.3	31321.5	38143.4	43541.5	43188.2	39899.7	38650.7	36114.3	34743.0
70°	15998.3	16211.7	19962.1	26371.2	35838.0	44905.9	45028.4	41299.0	38021.0	33452.0	28526.2
72.5°	9218.4	9690.7	12318.0	18552.2	29278.4	41456.5	42306.6	38388.3	34039.8	27907.0	19944.6
75°	3963.7	3974.2	5695.5	10232.9	19829.1	33322.6	34144.7	31821.8	26731.5	19297.4	10649.2
77.5°	1885.7	1920.6	2504.9	4569.0	10915.1	23023.2	25241.2	22480.9	17096.9	9270.9	4023.2
80°	1224.5	1248.9	1532.3	2267.0	5352.6	13350.0	14896.3	12968.7	7542.6	3313.0	1735.2
82.5°	741.7	748.7	1025.0	1385.4	2945.7	6045.3	7126.3	5629.0	3218.6	1983.6	1021.5
85°	451.3	454.8	622.7	857.1	1787.7	2088.6	2144.5	2127.0	1889.2	1297.9	545.8
87.5°	216.9	223.9	321.9	405.8	703.2	647.2	612.2	710.2	892.1	699.7	234.4
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°	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1	6563.1
2.5°	6556.1	6545.6	6521.1	6510.6	6503.6	6507.1	6503.6	6503.6	6507.1	6507.1	6507.1
5°	6587.6	6570.1	6531.6	6531.6	6552.6	6601.5	6647.0	6682.0	6720.5	6717.0	6717.0
7.5°	6724.0	6692.5	6647.0	6661.0	6713.5	6790.5	6870.9	6947.9	7024.9	7031.9	7028.4
10°	6923.4	6891.9	6842.9	6860.4	6944.4	7059.8	7161.3	7273.2	7357.2	7381.7	7374.7
12.5°	7150.8	7087.8	7045.8	7094.8	7227.8	7381.7	7479.7	7563.6	7623.1	7658.1	7644.1
15°	7381.7	7322.2	7273.2	7374.7	7535.6	7679.1	7728.0	7742.0	7752.5	7787.5	7780.5
17.5°	7605.6	7525.1	7507.6	7640.6	7794.5	7857.5	7829.5	7770.0	7724.5	7752.5	7749.0
20°	7805.0	7742.0	7735.0	7868.0	7927.5	7868.0	7749.0	7644.1	7563.6	7570.6	7567.1
22.5°	7993.9	7944.9	7951.9	8007.9	7913.5	7710.6	7514.6	7371.2	7283.7	7301.2	7311.7
25°	8203.8	8154.9	8172.3	8081.4	7770.0	7416.7	7133.3	7010.9	6975.9	7010.9	7035.4
27.5°	8476.7	8445.2	8434.7	8084.9	7514.6	6982.9	6661.0	6615.5	6647.0	6724.0	6762.5
30°	8770.6	8770.6	8714.6	8025.4	7164.8	6461.6	6181.7	6188.7	6297.2	6405.6	6444.1
32.5°	9053.9	9113.4	8938.5	7864.5	6713.5	5954.3	5740.9	5747.9	5842.4	5975.3	6010.3
35°	9288.3	9459.8	9130.9	7570.6	6181.7	5527.5	5366.6	5272.1	5275.6	5377.1	5405.1
37.5°	9610.2	9928.6	9242.9	7133.3	5615.0	5163.7	4981.8	4817.3	4708.9	4666.9	4666.9
40°	10170.0	10638.7	9270.9	6486.1	5079.7	4817.3	4558.5	4362.5	4152.6	3963.7	3928.7
42.5°	11118.0	11709.3	9214.9	5740.9	4596.9	4436.0	4184.1	3942.7	3652.4	3386.5	3365.5
45°	12797.3	13101.6	9064.4	4967.8	4166.6	4068.7	3823.8	3561.4	3253.5	3015.7	2998.2
47.5°	15487.6	15057.3	8865.0	4282.1	3774.8	3746.8	3557.9	3253.5	2945.7	2781.3	2763.8
50°	19416.3	18135.9	8837.0	3785.3	3460.0	3473.9	3320.0	3040.1	2770.8	2634.3	2613.3
52.5°	24146.2	21854.7	9022.5	3435.5	3183.6	3236.1	3159.1	2900.2	2662.3	2546.9	2525.9
55°	28736.1	25199.2	9134.4	3162.6	2924.7	3022.6	3033.1	2816.2	2599.3	2483.9	2469.9
57.5°	32462.0	27718.1	8637.6	2914.2	2700.8	2851.2	2928.2	2767.3	2567.9	2480.4	2466.4
60°	35054.3	28907.6	7224.3	2693.8	2536.4	2714.8	2889.7	2770.8	2644.8	2655.3	2662.3
62.5°	35879.9	28379.3	5419.1	2529.4	2424.4	2669.3	2952.7	2914.2	2784.8	2865.2	2879.2
65°	34512.1	26196.3	3928.7	2399.9	2326.5	2700.8	3141.6	3019.1	2735.8	2795.2	2795.2
67.5°	29932.6	22568.4	3057.6	2281.0	2214.5	2760.3	3330.5	3008.7	2620.3	2690.3	2627.3
70°	23743.9	17457.2	2546.9	2148.0	2095.6	2672.8	3348.0	2900.2	2483.9	2497.9	2378.9
72.5°	15757.0	11478.4	2190.0	2022.1	1913.6	2403.4	3204.6	2760.3	2350.9	2270.5	2151.5
75°	7721.0	5723.4	1910.1	1864.7	1675.8	2092.1	3008.7	2627.3	2207.5	2081.6	2015.1
77.5°	2991.2	2434.9	1630.3	1665.3	1458.8	1843.7	2749.8	2438.4	2018.6	1847.2	1794.7
80°	1451.9	1381.9	1336.4	1388.9	1200.0	1570.8	2511.9	2274.0	1843.7	1654.8	1577.8
82.5°	902.6	853.6	1025.0	1081.0	923.6	1434.4	2382.4	2134.0	1623.3	1371.4	1308.4
85°	458.3	489.8	685.7	738.2	661.2	1140.5	1962.6	1602.3	1172.0	972.6	979.6
87.5°	174.9	234.4	360.3	388.3	353.3	601.7	1081.0	934.1	752.2	510.8	472.3
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)