

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: P456712

Luminaire Tested: **GALN-SA8A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456712
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-SA8A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 30815 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

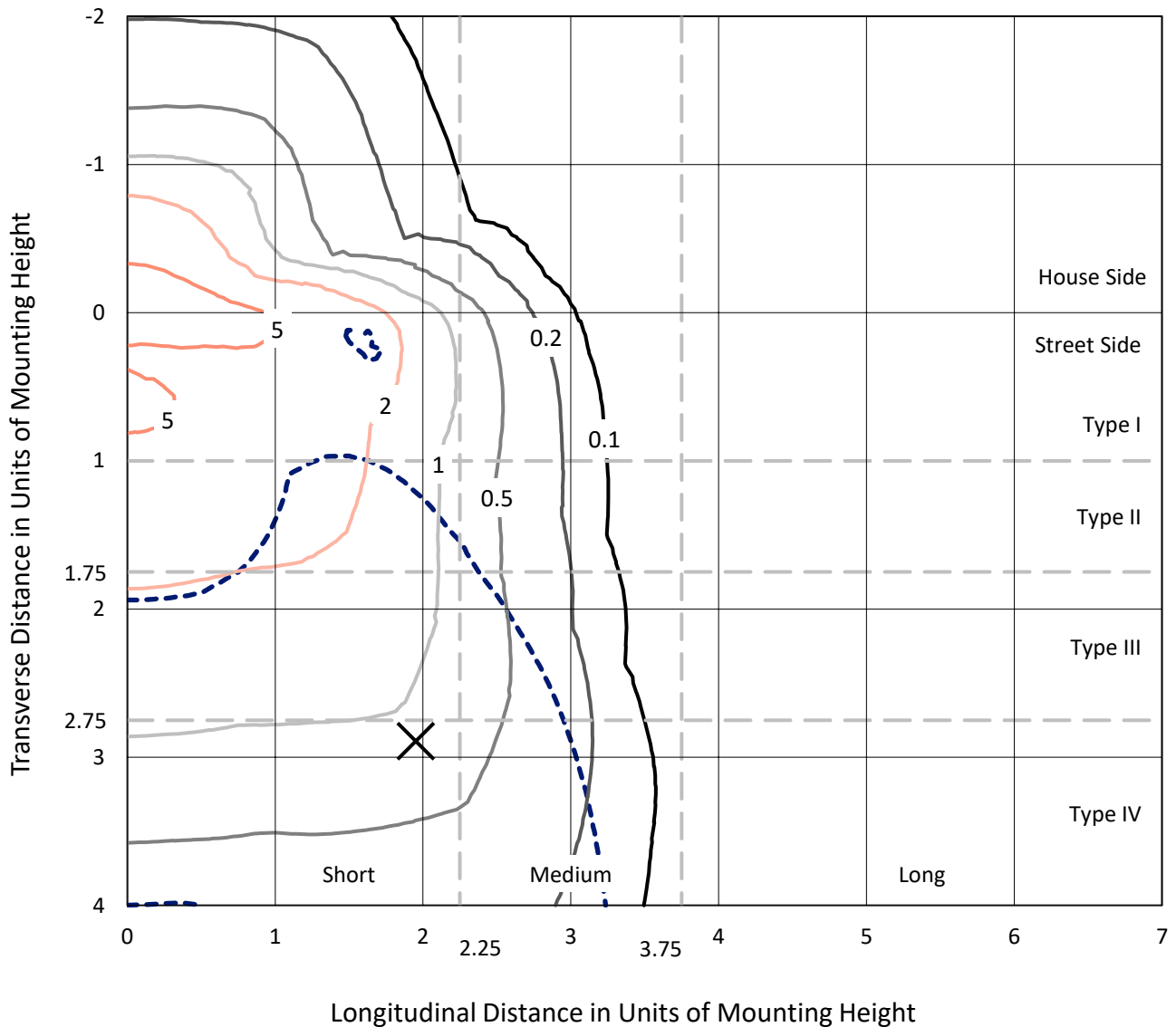
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456712
 CATALOG NUMBER: GALN-SA8A-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

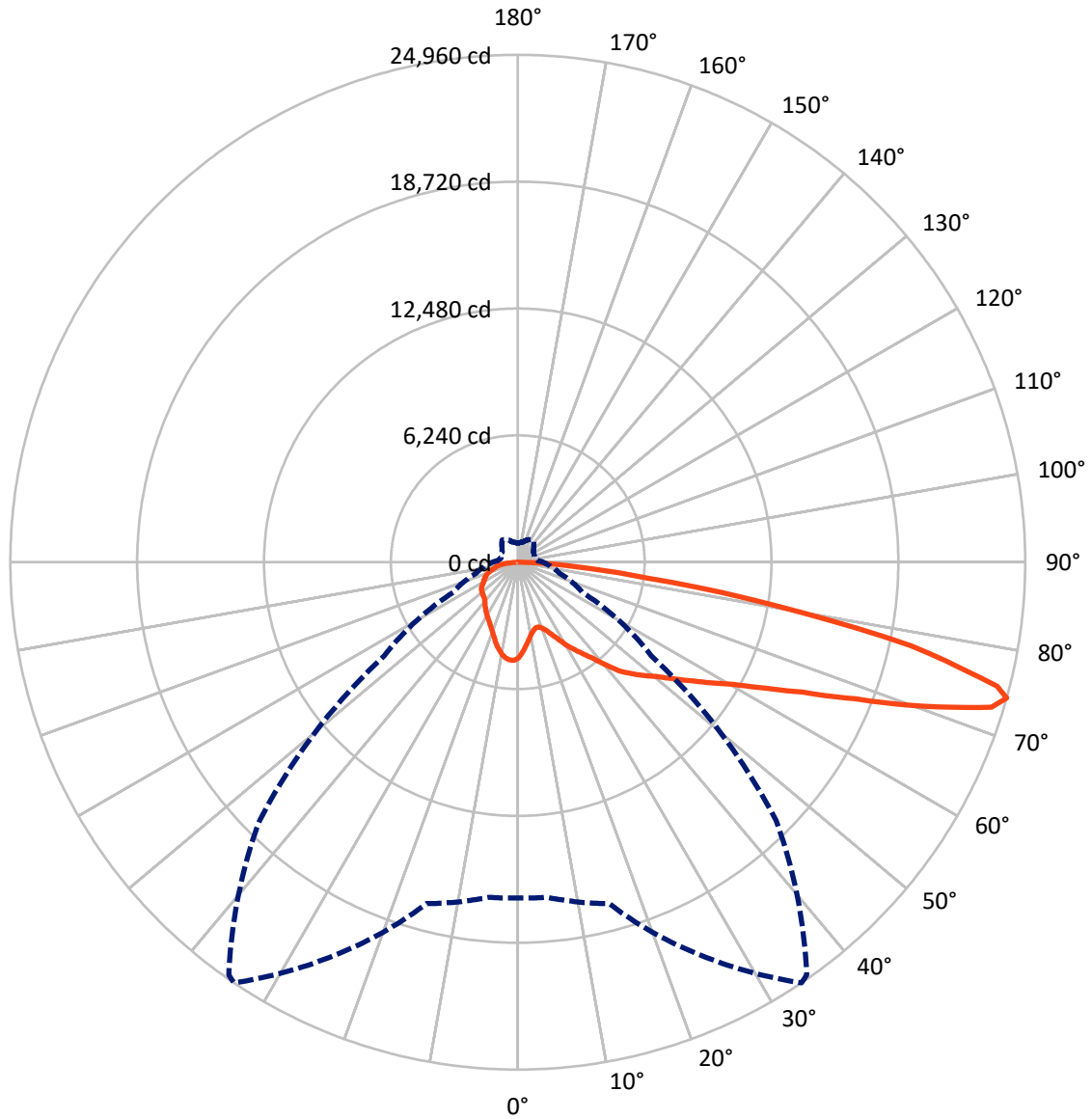
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P456712
CATALOG NUMBER: GALN-SA8A-727-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456712

CATALOG NUMBER: GALN-SA8A-727-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6557.6	0.0	6557.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	24257.3	0.0	24257.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	30815.0	0.0	30815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.9	1.4
10°-20°	1171.3	3.8
20°-30°	1931.2	6.3
30°-40°	2892.7	9.4
40°-50°	4205.2	13.6
50°-60°	5873.7	19.1
60°-70°	7353.5	23.9
70°-80°	6080.8	19.7
80°-90°	878.6	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°	30815.0	100.0
0°-180°	30815.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456712

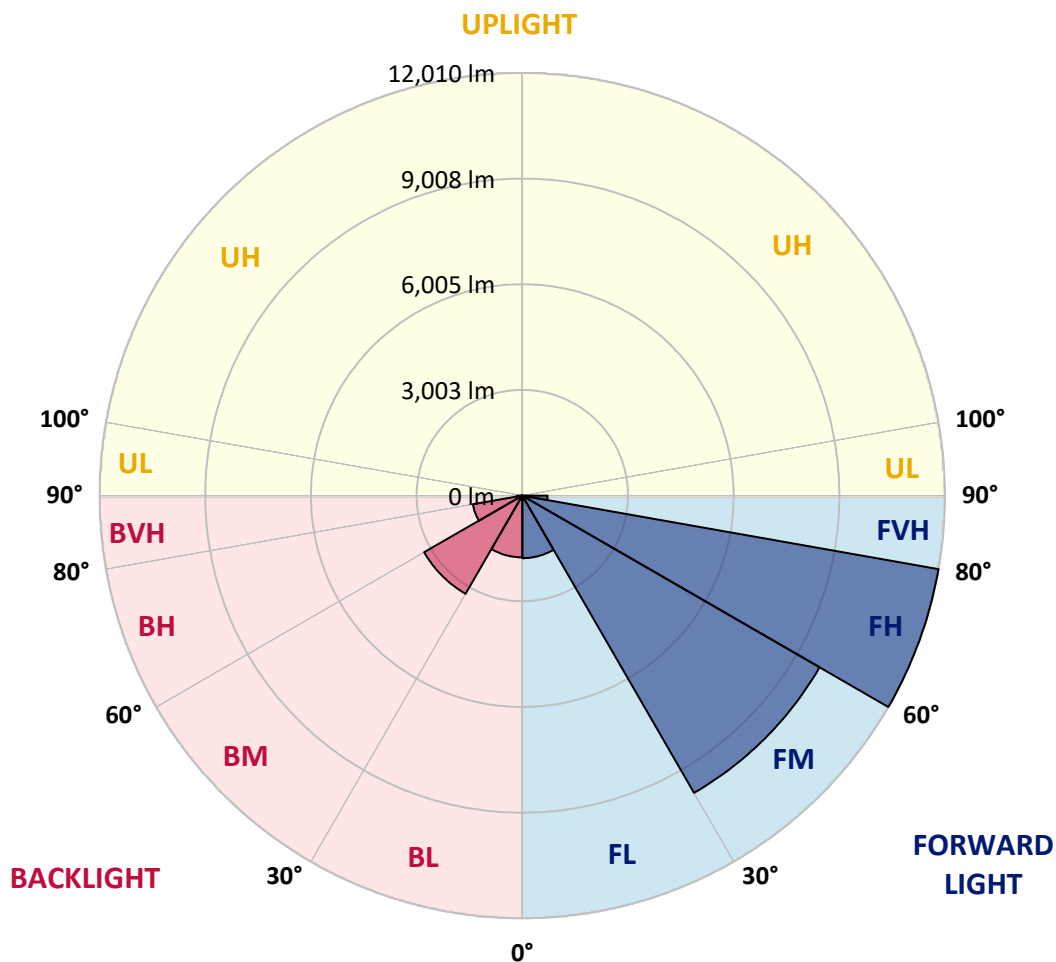
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.3	5.8			
FM (30°-60°)	9751.1	31.6			
FH (60°-80°)	12010.1	39.0			G5
FVH (80°-90°)	719.8	2.3			G4/750
BL (0°-30°)	1754.1	5.7	B3/2500		
BM (30°-60°)	3220.5	10.5	B3/5000		
BH (60°-80°)	1424.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	158.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P456712

CATALOG NUMBER: GALN-SA8A-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8
2.5°	4348.1	4370.2	4382.2	4424.9	4435.1	4448.8	4484.6	4532.4	4593.9	4648.5	4696.3
5°	3986.1	4020.3	4040.8	4078.3	4151.7	4158.6	4254.2	4363.4	4488.0	4604.1	4699.7
7.5°	3643.0	3680.6	3697.6	3765.9	3863.2	3878.6	4018.6	4191.0	4399.3	4575.1	4721.9
10°	3385.2	3404.0	3441.6	3492.8	3608.9	3619.1	3801.8	4032.2	4302.0	4561.4	4759.5
12.5°	3245.2	3255.5	3264.0	3318.7	3433.0	3448.4	3639.6	3900.8	4225.1	4571.7	4820.9
15°	3265.7	3269.1	3231.6	3241.8	3334.0	3356.2	3545.7	3813.7	4177.3	4597.3	4913.1
17.5°	3438.2	3426.2	3334.0	3286.2	3351.1	3361.3	3526.9	3779.6	4155.1	4645.1	5008.7
20°	3709.6	3692.5	3533.8	3427.9	3465.5	3474.0	3588.4	3805.2	4177.3	4723.6	5157.2
22.5°	4047.6	4040.8	3800.1	3672.0	3670.3	3670.3	3730.1	3897.4	4243.9	4831.2	5312.6
25°	4520.5	4484.6	4170.5	4004.9	3958.8	3955.4	3948.6	4049.3	4329.3	4945.5	5496.9
27.5°	5005.3	4943.8	4663.9	4409.5	4310.5	4298.5	4254.2	4264.4	4438.5	5075.3	5706.9
30°	5440.6	5401.3	5138.5	4856.8	4739.0	4711.7	4588.8	4532.4	4621.2	5309.2	6041.5
32.5°	5773.5	5749.6	5544.7	5288.7	5114.6	5109.4	4930.2	4884.1	4906.3	5592.5	6423.9
35°	6043.2	6051.8	5947.6	5725.7	5526.0	5496.9	5377.4	5319.4	5254.5	6002.3	6905.3
37.5°	6412.0	6430.7	6423.9	6232.7	5988.6	5995.4	5968.1	5872.5	5700.1	6459.8	7439.7
40°	6818.3	6831.9	6830.2	6756.8	6628.8	6635.6	6625.4	6516.1	6258.3	7041.9	8033.7
42.5°	7379.9	7315.0	7146.0	7219.4	7294.6	7327.0	7397.0	7292.8	6939.5	7663.3	8592.0
45°	8008.1	7885.2	7502.8	7537.0	7815.2	7876.7	8262.5	8119.1	7678.7	8376.9	9249.2
47.5°	8404.2	8283.0	7960.3	7953.5	8322.2	8382.0	9064.8	9011.9	8351.3	9146.8	10051.6
50°	8757.6	8740.5	8376.9	8463.9	8824.1	8912.9	9938.9	9889.4	9022.2	10055.0	10925.6
52.5°	9281.6	9143.4	8853.2	9032.4	9508.7	9624.8	10806.1	10661.0	9638.4	10857.3	11774.1
55°	9517.2	9484.8	9467.7	9623.1	10276.9	10360.6	11649.4	11316.5	10164.2	11536.8	12419.3
57.5°	10147.2	10087.4	10256.4	10362.3	11181.7	11309.7	12530.3	12001.1	10625.2	12076.2	12733.5
60°	10963.2	10930.7	11086.1	11277.3	12192.3	12386.9	13534.1	12584.9	10995.6	12347.6	12561.0
62.5°	12182.1	12178.6	12149.6	12559.3	13624.6	13803.8	14686.4	13153.4	11053.6	12144.5	11669.9
65°	13930.2	13868.7	13616.0	14063.3	15406.8	15616.8	15886.5	13470.9	10703.7	11101.4	9826.2
67.5°	15758.5	15755.1	15550.2	16130.6	17965.8	18182.6	17387.1	13400.9	9732.3	8993.1	6978.7
70°	17274.4	17201.0	17462.2	19008.9	21234.9	21485.9	18699.9	12576.4	7752.1	5939.1	4146.6
72.5°	17638.0	17641.4	18184.3	21228.1	24374.4	24413.6	19172.7	10193.3	5188.0	3276.0	2074.2
74°	16518.2	16547.2	17388.8	21339.1	24959.9	24782.4	17964.1	8011.5	3508.1	2139.0	1495.4
75°	15077.3	14894.7	16111.9	20599.9	24352.2	24161.0	16548.9	6429.0	2676.8	1708.8	1309.4
77.5°	8061.1	8247.1	10125.0	15372.7	19783.9	19563.7	11220.9	3083.1	1445.9	1189.9	942.3
80°	2869.7	3165.0	4448.8	8044.0	12684.0	12752.2	5355.3	1413.5	1017.4	877.5	665.8
82.5°	1171.1	1203.5	1910.3	3569.6	6441.0	6502.4	2186.8	839.9	727.2	604.3	397.8
85°	457.5	471.2	845.0	1604.7	2748.5	2927.7	756.3	443.9	447.3	346.5	203.1
87.5°	153.6	174.1	346.5	534.3	933.8	915.0	220.2	131.4	160.5	150.2	63.2
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°	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8	4704.8
2.5°	4720.2	4752.6	4774.8	4798.7	4820.9	4827.8	4822.6	4838.0	4839.7	4841.4	4843.1
5°	4747.5	4791.9	4834.6	4858.5	4868.7	4860.2	4831.2	4815.8	4802.1	4791.9	4795.3
7.5°	4785.1	4848.2	4887.5	4897.7	4870.4	4831.2	4759.5	4703.1	4667.3	4643.4	4641.7
10°	4843.1	4904.6	4937.0	4908.0	4832.9	4737.3	4624.6	4518.8	4438.5	4414.6	4412.9
12.5°	4916.5	4986.5	4984.8	4899.5	4768.0	4597.3	4414.6	4291.7	4182.5	4127.8	4150.0
15°	5012.1	5065.0	5015.5	4861.9	4653.6	4419.8	4194.4	4027.1	3904.2	3846.2	3849.6
17.5°	5123.1	5169.2	5037.7	4795.3	4493.2	4192.7	3931.5	3772.7	3675.4	3632.8	3629.4
20°	5261.4	5275.0	5037.7	4679.2	4286.6	3928.1	3678.9	3567.9	3513.3	3491.1	3497.9
22.5°	5409.9	5382.6	5010.4	4515.3	4015.2	3651.5	3484.2	3434.7	3407.4	3404.0	3407.4
25°	5577.2	5500.4	4954.1	4293.4	3731.8	3412.5	3315.2	3323.8	3328.9	3328.9	3340.8
27.5°	5782.0	5628.4	4860.2	4013.5	3400.6	3190.6	3163.3	3223.1	3250.4	3255.5	3264.0
30°	6051.8	5768.4	4704.8	3663.5	3118.9	2990.9	3038.7	3118.9	3149.6	3168.4	3165.0
32.5°	6372.7	5922.0	4494.9	3313.5	2891.9	2850.9	2908.9	2990.9	3025.0	3035.3	3021.6
35°	6750.0	6096.1	4218.3	2985.8	2693.8	2717.7	2786.0	2811.6	2842.4	2842.4	2849.2
37.5°	7156.3	6236.1	3880.3	2685.3	2540.2	2627.3	2676.8	2652.9	2639.2	2622.1	2630.7
40°	7569.4	6340.3	3441.6	2388.3	2386.6	2533.4	2547.0	2478.7	2424.1	2407.0	2398.5
42.5°	7929.6	6405.1	3045.5	2157.8	2241.5	2441.2	2451.4	2342.2	2255.1	2203.9	2186.8
45°	8354.7	6480.3	2658.0	1966.6	2106.6	2367.8	2393.4	2246.6	2118.5	2011.0	1983.7
47.5°	8936.8	6651.0	2352.4	1818.1	2009.3	2321.7	2357.5	2168.1	1999.0	1859.1	1836.9
50°	9594.1	6884.8	2115.1	1717.4	1934.2	2280.7	2325.1	2087.8	1888.1	1732.7	1715.7
52.5°	10196.7	7011.2	1910.3	1626.9	1860.8	2205.6	2282.4	2029.8	1778.8	1606.4	1591.0
55°	10526.1	6806.3	1708.8	1538.1	1760.0	2108.3	2222.7	1949.5	1673.0	1539.8	1517.6
57.5°	10570.5	6382.9	1526.2	1442.5	1654.2	1988.8	2111.7	1852.2	1604.7	1493.7	1475.0
60°	10227.4	5751.3	1384.5	1364.0	1546.7	1853.9	1987.1	1766.9	1534.7	1442.5	1423.7
62.5°	9373.8	5065.0	1285.5	1292.3	1437.4	1712.2	1894.9	1684.9	1468.1	1386.2	1369.1
65°	7905.7	4180.8	1189.9	1218.9	1340.1	1601.3	1811.3	1616.6	1401.6	1343.5	1328.1
67.5°	5491.8	3018.2	1111.3	1142.1	1247.9	1488.6	1714.0	1543.2	1326.4	1295.7	1271.8
70°	3040.4	1857.4	1019.2	1055.0	1152.3	1362.3	1604.7	1432.3	1217.2	1203.5	1169.4
72.5°	1597.9	1183.0	915.0	954.3	1022.6	1200.1	1437.4	1311.1	1109.6	1051.6	1007.2
74°	1247.9	969.6	845.0	886.0	932.1	1104.5	1338.4	1224.0	1032.8	964.5	930.4
75°	1087.4	863.8	785.3	838.2	879.2	1039.6	1261.6	1162.6	990.1	925.3	894.5
77.5°	768.2	647.0	641.9	705.0	727.2	911.6	1136.9	1058.4	882.6	814.3	785.3
80°	539.5	484.8	508.7	548.0	578.7	805.8	1055.0	915.0	723.8	643.6	633.3
82.5°	351.7	317.5	363.6	399.5	409.7	594.1	851.9	694.8	527.5	428.5	397.8
85°	162.2	158.8	208.3	203.1	201.4	290.2	505.3	406.3	303.9	227.0	213.4
87.5°	41.0	39.3	51.2	42.7	51.2	44.4	46.1	11.9	1.7	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)