

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: P456741

Luminaire Tested: **GALN-SA8A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456741
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-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 33557 lumens
Efficiency: N/A
Efficacy: 137.5 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

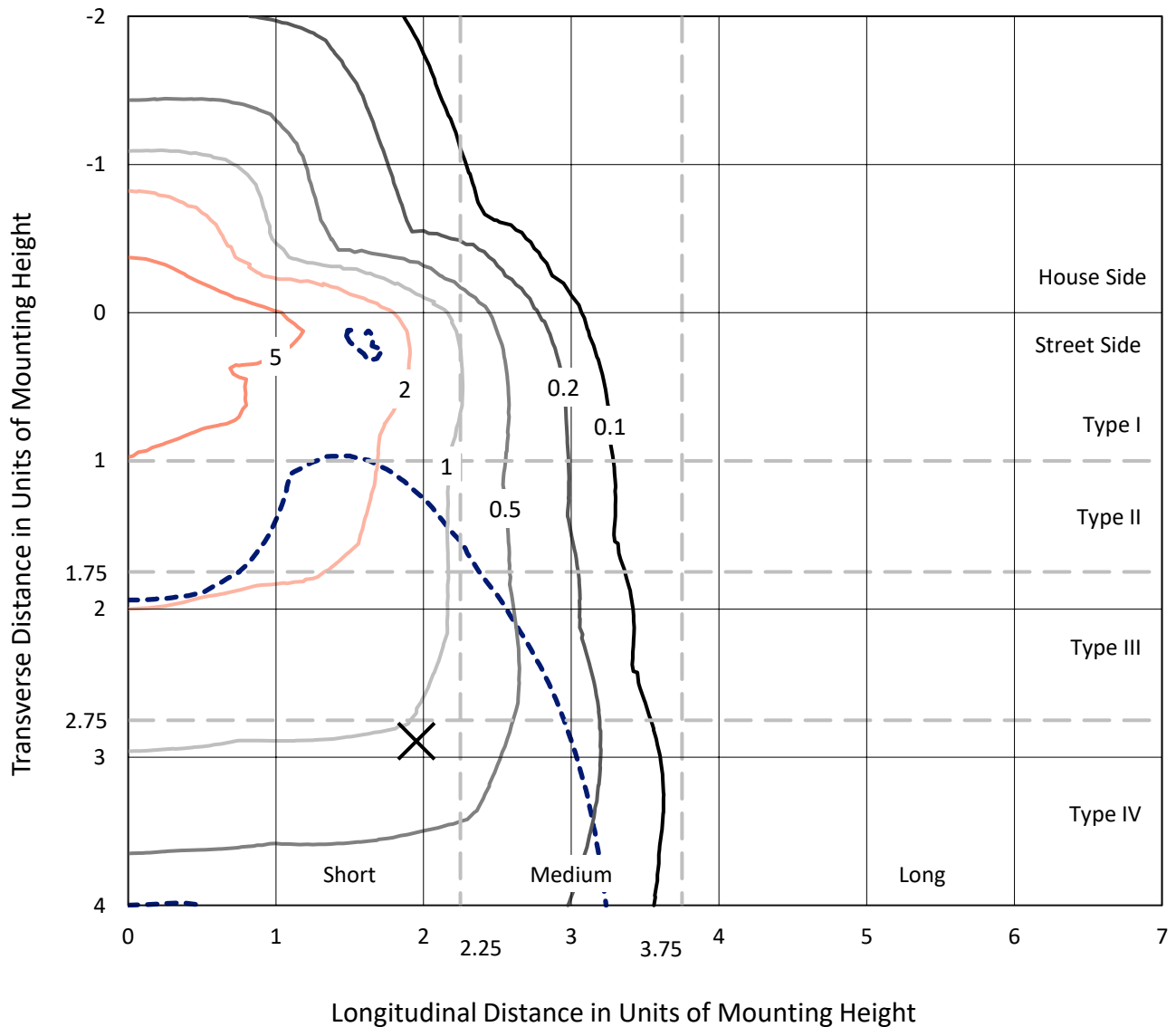
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456741
 CATALOG NUMBER: GALN-SA8A-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

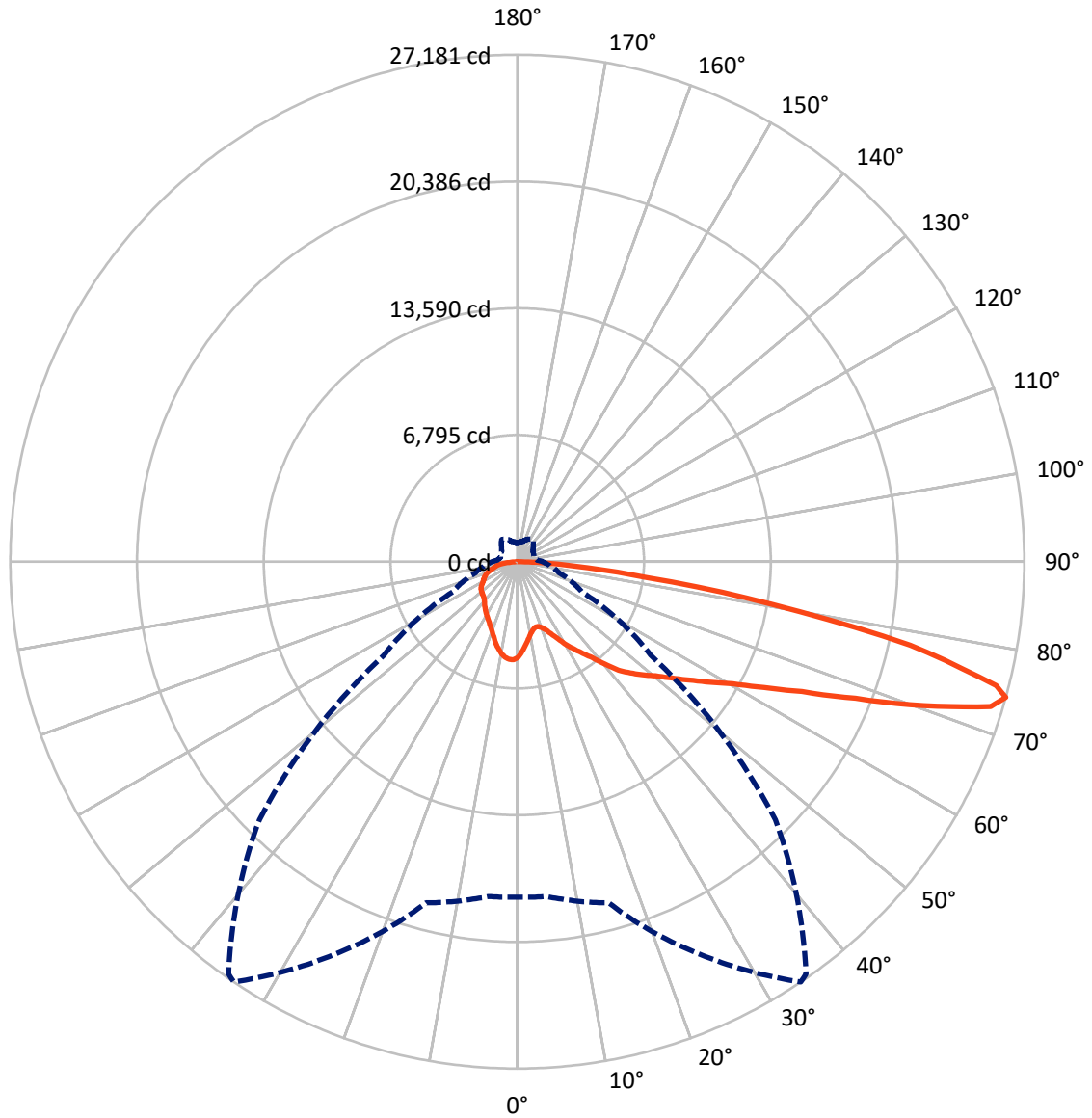
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P456741
CATALOG NUMBER: GALN-SA8A-730-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456741

CATALOG NUMBER: GALN-SA8A-730-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7141.2	0.0	7141.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	26415.8	0.0	26415.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	33557.0	0.0	33557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	1.4
10°-20°	1275.5	3.8
20°-30°	2103.0	6.3
30°-40°	3150.1	9.4
40°-50°	4579.4	13.6
50°-60°	6396.4	19.1
60°-70°	8007.9	23.9
70°-80°	6621.9	19.7
80°-90°	956.8	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°	33557.0	100.0
0°-180°	33557.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456741

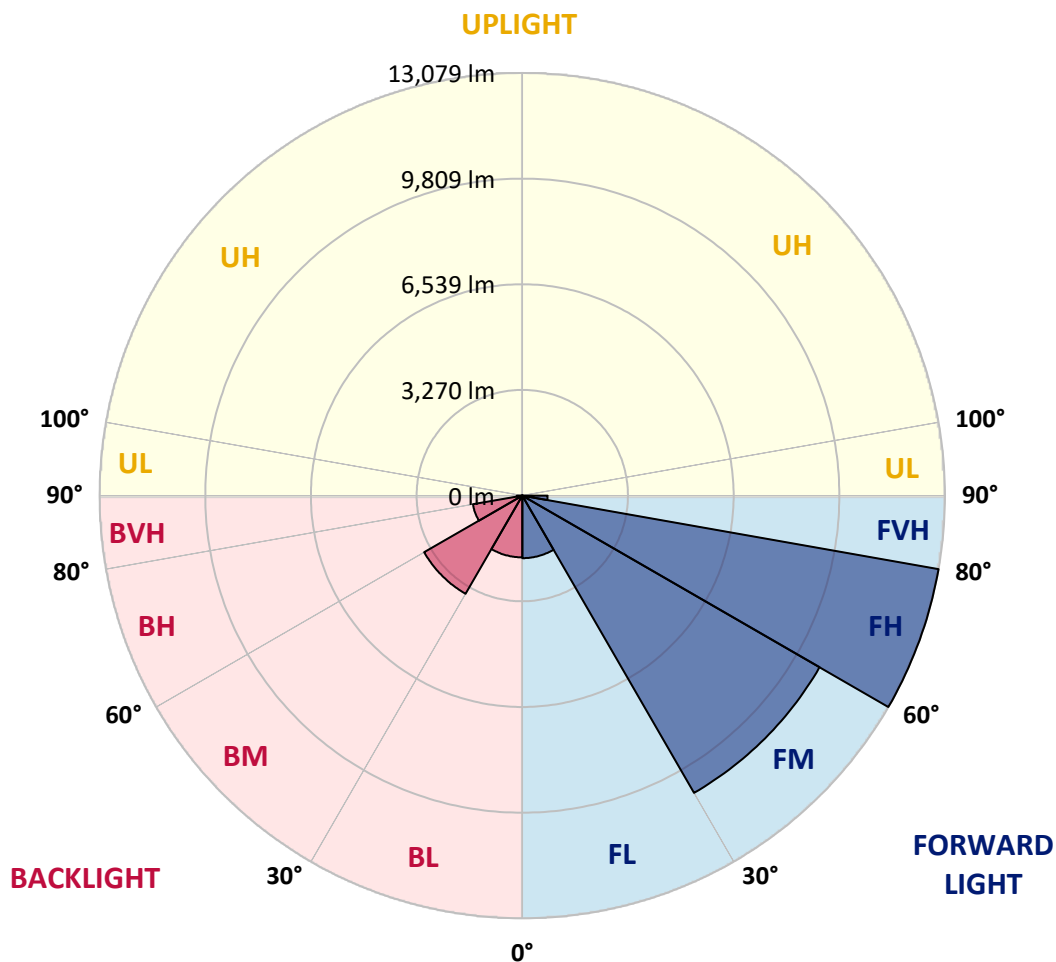
CATALOG NUMBER: GALN-SA8A-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1934.4	5.8			
FM	(30°-60°)	10618.8	31.6			
FH	(60°-80°)	13078.7	39.0			G5
FVH	(80°-90°)	783.9	2.3			G5
BL	(0°-30°)	1910.1	5.7	B3/2500		
BM	(30°-60°)	3507.1	10.5	B3/5000		
BH	(60°-80°)	1551.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	173.0	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: P456741

CATALOG NUMBER: GALN-SA8A-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5
2.5°	4735.0	4759.1	4772.1	4818.6	4829.8	4844.6	4883.7	4935.7	5002.7	5062.1	5114.2
5°	4340.8	4378.0	4400.3	4441.2	4521.2	4528.6	4632.7	4751.7	4887.4	5013.8	5117.9
7.5°	3967.2	4008.1	4026.7	4101.0	4207.0	4223.7	4376.2	4563.9	4790.7	4982.2	5142.1
10°	3686.5	3706.9	3747.8	3803.6	3930.0	3941.1	4140.1	4391.0	4684.8	4967.3	5183.0
12.5°	3534.0	3545.2	3554.5	3614.0	3738.5	3755.2	3963.5	4247.9	4601.1	4978.5	5249.9
15°	3556.3	3560.0	3519.1	3530.3	3630.7	3654.9	3861.2	4153.1	4549.0	5006.4	5350.3
17.5°	3744.1	3731.1	3630.7	3578.6	3649.3	3660.4	3840.8	4115.9	4524.9	5058.4	5454.4
20°	4039.7	4021.1	3848.2	3732.9	3773.8	3783.1	3907.7	4143.8	4549.0	5143.9	5616.1
22.5°	4407.8	4400.3	4138.2	3998.8	3996.9	3996.9	4062.0	4244.2	4621.6	5261.1	5785.3
25°	4922.7	4883.7	4541.6	4361.3	4311.1	4307.4	4299.9	4409.6	4714.5	5385.6	5986.1
27.5°	5450.7	5383.8	5078.9	4801.9	4694.1	4681.0	4632.7	4643.9	4833.5	5526.9	6214.7
30°	5924.7	5882.0	5595.7	5288.9	5160.7	5130.9	4997.1	4935.7	5032.4	5781.6	6579.1
32.5°	6287.2	6261.2	6038.1	5759.3	5569.7	5564.1	5368.9	5318.7	5342.9	6090.2	6995.5
35°	6581.0	6590.3	6476.9	6235.2	6017.7	5986.1	5855.9	5792.7	5722.1	6536.4	7519.8
37.5°	6982.5	7003.0	6995.5	6787.3	6521.5	6528.9	6499.2	6395.1	6207.3	7034.6	8101.7
40°	7425.0	7439.8	7438.0	7358.0	7218.6	7226.1	7214.9	7095.9	6815.2	7668.5	8748.6
42.5°	8036.6	7965.9	7781.9	7861.8	7943.6	7979.0	8055.2	7941.8	7557.0	8345.2	9356.5
45°	8720.7	8586.9	8170.4	8207.6	8510.6	8577.6	8997.7	8841.6	8361.9	9122.3	10072.2
47.5°	9152.0	9020.0	8668.7	8661.2	9062.8	9127.8	9871.5	9813.8	9094.4	9960.7	10946.0
50°	9536.8	9518.2	9122.3	9217.1	9609.3	9706.0	10823.3	10769.4	9825.0	10949.7	11897.8
52.5°	10107.6	9957.0	9640.9	9836.1	10354.8	10481.2	11767.7	11609.7	10496.1	11823.4	12821.7
55°	10364.1	10328.8	10310.2	10479.4	11191.4	11282.5	12686.0	12323.5	11068.7	12563.3	13524.5
57.5°	11050.1	10985.0	11169.1	11284.3	12176.7	12316.1	13645.3	13069.0	11570.6	13150.8	13866.5
60°	11938.7	11903.4	12072.5	12280.8	13277.2	13489.1	14738.4	13704.8	11974.0	13446.4	13678.8
62.5°	13266.0	13262.3	13230.7	13676.9	14836.9	15032.1	15993.2	14323.8	12037.2	13225.1	12708.3
65°	15169.7	15102.8	14827.6	15314.7	16777.8	17006.4	17300.1	14669.6	11656.1	12089.3	10700.6
67.5°	17160.7	17157.0	16933.9	17566.0	19564.4	19800.5	18934.2	14593.4	10598.3	9793.4	7599.7
70°	18811.5	18731.6	19016.0	20700.3	23124.5	23397.8	20363.8	13695.5	8441.9	6467.6	4515.6
72.5°	19207.5	19211.2	19802.4	23117.1	26543.2	26586.0	20878.8	11100.3	5649.6	3567.5	2258.7
74°	17988.0	18019.6	18936.1	23237.9	27180.9	26987.6	19562.6	8724.4	3820.3	2329.4	1628.5
75°	16419.0	16220.0	17545.5	22432.9	26519.1	26310.9	18021.4	7001.1	2915.0	1860.9	1425.9
77.5°	8778.3	8981.0	11025.9	16740.6	21544.3	21304.5	12219.4	3357.4	1574.6	1295.7	1026.2
80°	3125.0	3446.6	4844.6	8759.8	13812.6	13887.0	5831.8	1539.3	1108.0	955.5	725.0
82.5°	1275.3	1310.6	2080.3	3887.2	7014.1	7081.1	2381.4	914.6	791.9	658.1	433.2
85°	498.2	513.1	920.2	1747.5	2993.0	3188.2	823.6	483.3	487.1	377.4	221.2
87.5°	167.3	189.6	377.4	581.9	1016.9	996.4	239.8	143.1	174.7	163.6	68.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456741
 CATALOG NUMBER: GALN-SA8A-730-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5	5123.5
2.5°	5140.2	5175.5	5199.7	5225.7	5249.9	5257.3	5251.8	5268.5	5270.4	5272.2	5274.1
5°	5170.0	5218.3	5264.8	5290.8	5302.0	5292.7	5261.1	5244.3	5229.5	5218.3	5222.0
7.5°	5210.9	5279.6	5322.4	5333.6	5303.8	5261.1	5183.0	5121.6	5082.6	5056.6	5054.7
10°	5274.1	5341.0	5376.3	5344.7	5262.9	5158.8	5036.1	4920.9	4833.5	4807.5	4805.6
12.5°	5354.0	5430.2	5428.4	5335.4	5192.3	5006.4	4807.5	4673.6	4554.6	4495.1	4519.3
15°	5458.1	5515.7	5461.8	5294.5	5067.7	4813.0	4567.6	4385.5	4251.6	4188.4	4192.1
17.5°	5579.0	5629.1	5486.0	5222.0	4893.0	4565.8	4281.3	4108.5	4002.5	3956.0	3952.3
20°	5729.5	5744.4	5486.0	5095.6	4668.0	4277.6	4006.2	3885.4	3825.9	3801.7	3809.2
22.5°	5891.3	5861.5	5456.3	4917.1	4372.4	3976.5	3794.3	3740.4	3710.6	3706.9	3710.6
25°	6073.5	5989.8	5394.9	4675.5	4063.8	3716.2	3610.2	3619.5	3625.1	3625.1	3638.1
27.5°	6296.5	6129.2	5292.7	4370.6	3703.2	3474.5	3444.8	3509.9	3539.6	3545.2	3554.5
30°	6590.3	6281.7	5123.5	3989.5	3396.5	3257.0	3309.1	3396.5	3429.9	3450.4	3446.6
32.5°	6939.8	6449.0	4894.8	3608.4	3149.2	3104.6	3167.8	3257.0	3294.2	3305.4	3290.5
35°	7350.6	6638.6	4593.7	3251.4	2933.6	2959.6	3033.9	3061.8	3095.3	3095.3	3102.7
37.5°	7793.1	6791.0	4225.6	2924.3	2766.2	2861.0	2915.0	2888.9	2874.1	2855.5	2864.8
40°	8242.9	6904.4	3747.8	2600.8	2598.9	2758.8	2773.7	2699.3	2639.8	2621.2	2611.9
42.5°	8635.2	6975.1	3316.5	2349.8	2440.9	2658.4	2669.6	2550.6	2455.8	2400.0	2381.4
45°	9098.1	7056.9	2894.5	2141.6	2294.0	2578.5	2606.4	2446.5	2307.1	2189.9	2160.2
47.5°	9732.0	7242.8	2561.7	1979.9	2188.1	2528.3	2567.3	2361.0	2176.9	2024.5	2000.3
50°	10447.8	7497.5	2303.3	1870.2	2106.3	2483.7	2532.0	2273.6	2056.1	1886.9	1868.3
52.5°	11104.0	7635.0	2080.3	1771.7	2026.3	2401.9	2485.5	2210.4	1937.1	1749.3	1732.6
55°	11462.8	7412.0	1860.9	1675.0	1916.7	2295.9	2420.5	2123.0	1821.9	1676.8	1652.7
57.5°	11511.1	6950.9	1662.0	1570.9	1801.4	2165.8	2299.6	2017.0	1747.5	1626.7	1606.2
60°	11137.5	6263.1	1507.7	1485.4	1684.3	2018.9	2163.9	1924.1	1671.3	1570.9	1550.4
62.5°	10207.9	5515.7	1399.9	1407.3	1565.3	1864.6	2063.5	1834.9	1598.8	1509.5	1490.9
65°	8609.2	4552.8	1295.7	1327.3	1459.3	1743.8	1972.4	1760.5	1526.3	1463.1	1446.3
67.5°	5980.5	3286.8	1210.2	1243.7	1359.0	1621.1	1866.5	1680.6	1444.5	1411.0	1385.0
70°	3310.9	2022.6	1109.8	1148.9	1254.8	1483.5	1747.5	1559.7	1325.5	1310.6	1273.4
72.5°	1740.1	1288.3	996.4	1039.2	1113.6	1306.9	1565.3	1427.7	1208.4	1145.2	1096.8
74°	1359.0	1055.9	920.2	964.8	1015.0	1202.8	1457.5	1332.9	1124.7	1050.4	1013.2
75°	1184.2	940.7	855.2	912.8	957.4	1132.2	1373.8	1266.0	1078.2	1007.6	974.1
77.5°	836.6	704.6	699.0	767.8	791.9	992.7	1238.1	1152.6	961.1	886.8	855.2
80°	587.5	528.0	554.0	596.7	630.2	877.5	1148.9	996.4	788.2	700.9	689.7
82.5°	383.0	345.8	396.0	435.0	446.2	646.9	927.7	756.6	574.4	466.6	433.2
85°	176.6	172.9	226.8	221.2	219.4	316.0	550.3	442.4	330.9	247.3	232.4
87.5°	44.6	42.8	55.8	46.5	55.8	48.3	50.2	13.0	1.9	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)