

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: P456742

Luminaire Tested: **GALN-SA8A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24329 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

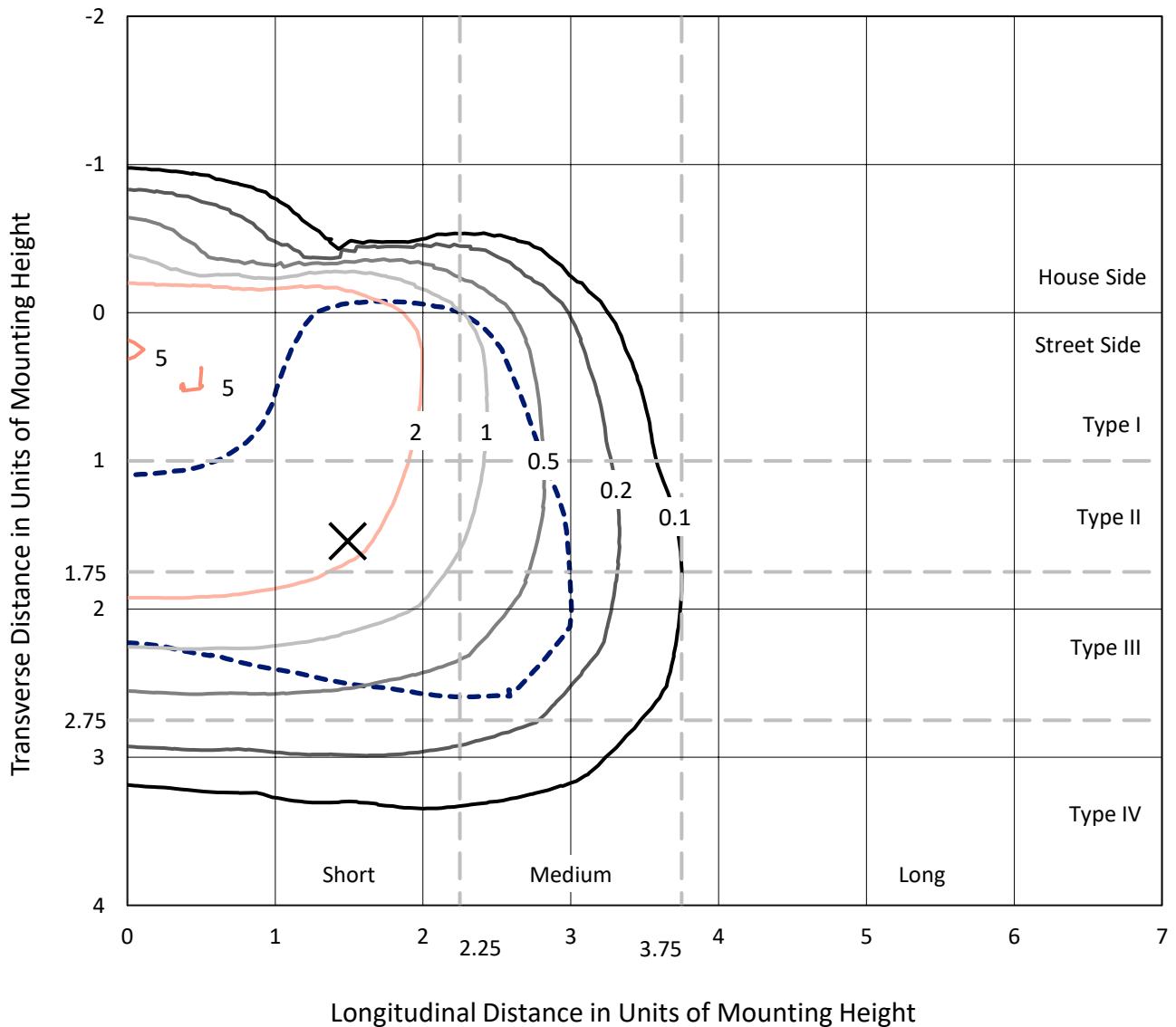
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456742
 CATALOG NUMBER: GALN-SA8A-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

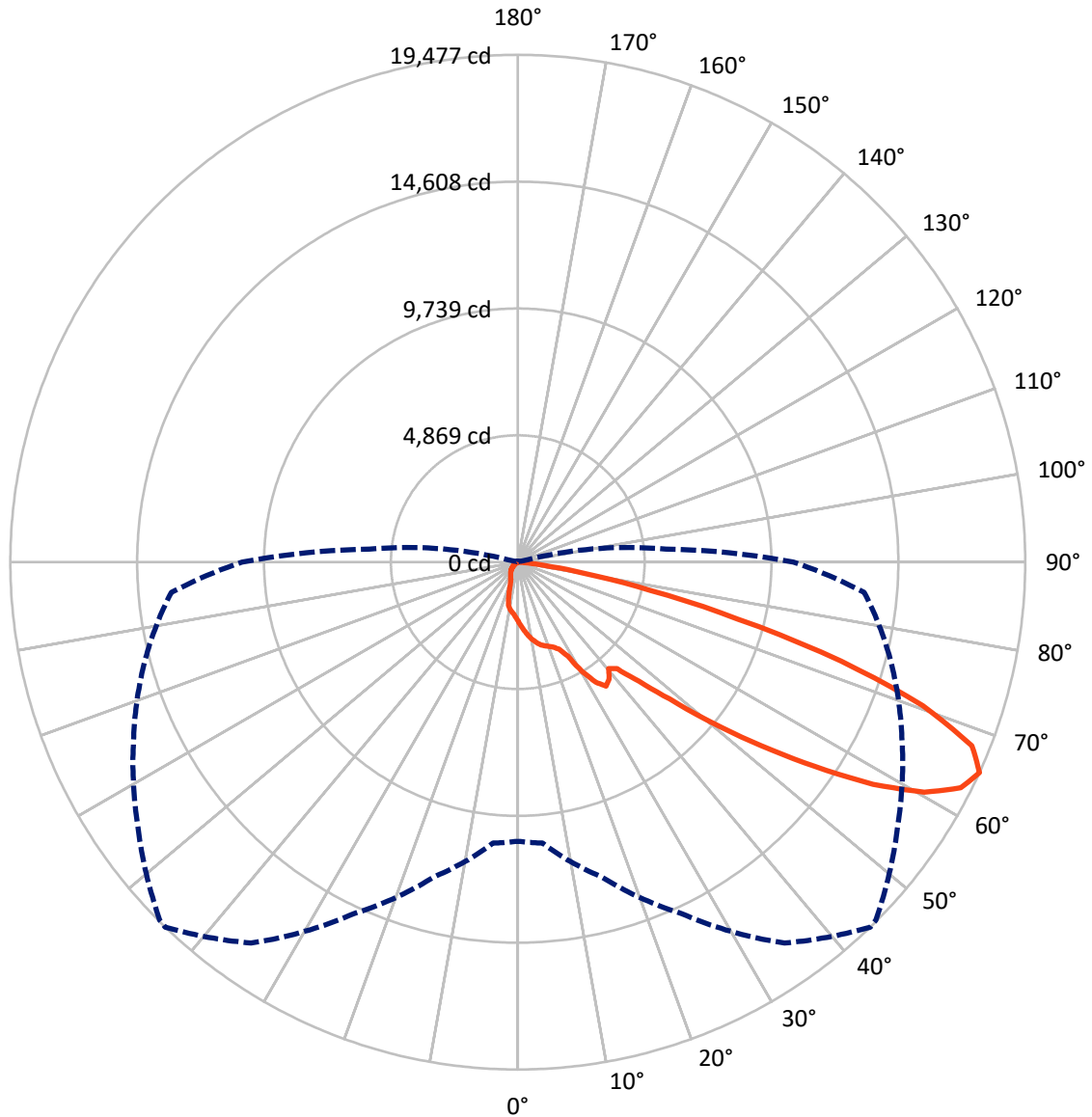
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

REPORT NUMBER: P456742
CATALOG NUMBER: GALN-SA8A-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P456742

CATALOG NUMBER: GALN-SA8A-730-U-T4W-HSS

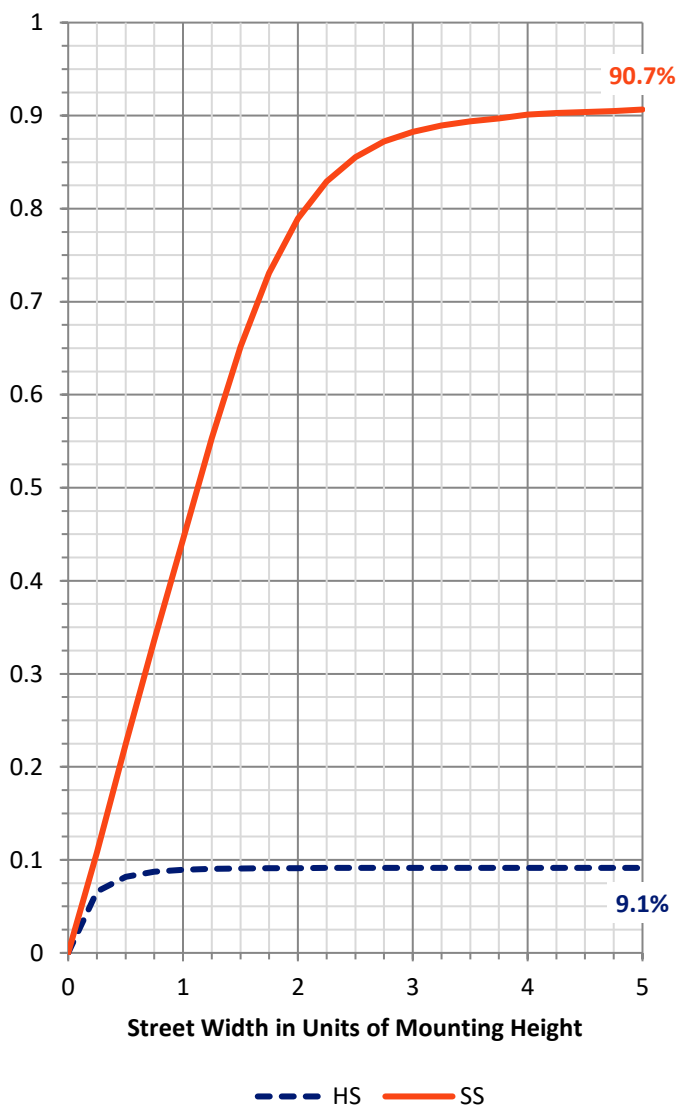
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2241.5	0.0	2241.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	22087.4	0.0	22087.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	24329.0	0.0	24329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	0.9
10°-20°	677.8	2.8
20°-30°	1149.3	4.7
30°-40°	1910.9	7.9
40°-50°	3336.5	13.7
50°-60°	6518.4	26.8
60°-70°	7562.8	31.1
70°-80°	2754.0	11.3
80°-90°	194.0	0.8
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°	24329.0	100.0
0°-180°	24329.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456742

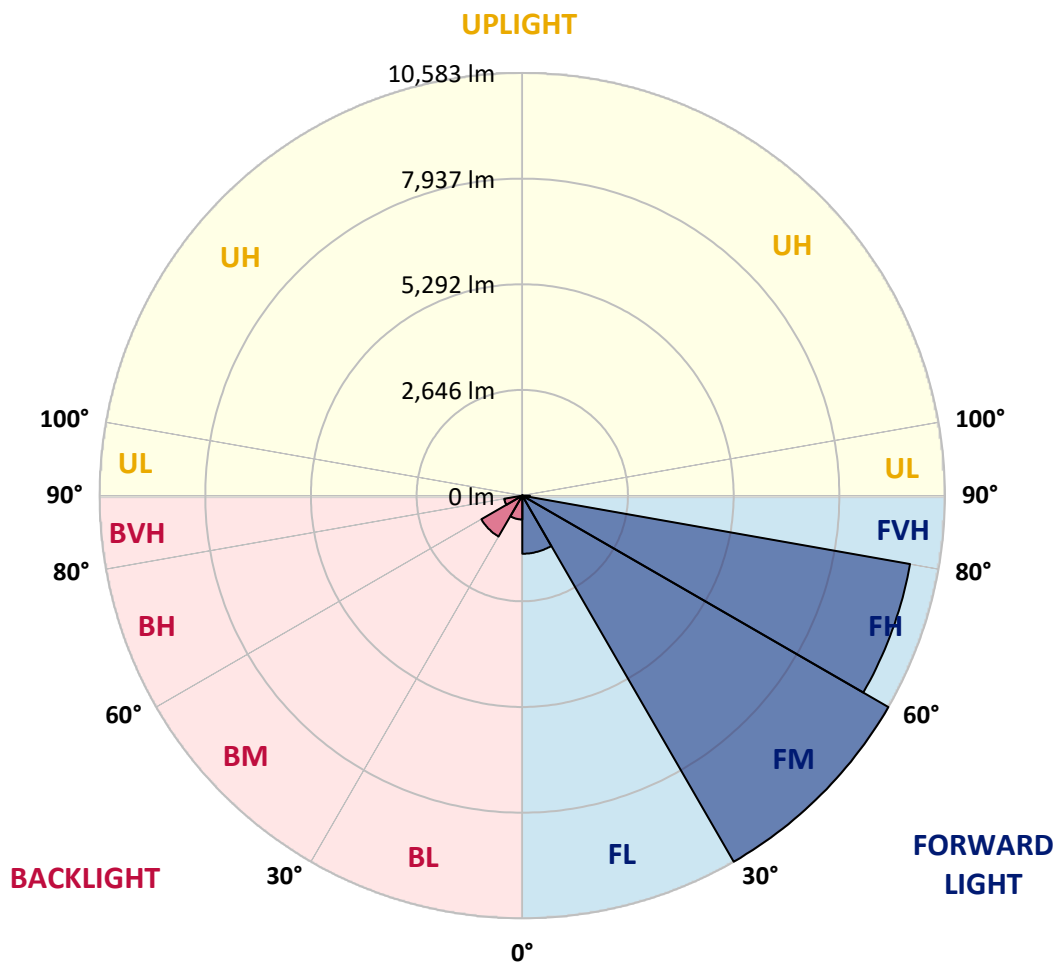
CATALOG NUMBER: GALN-SA8A-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.1	6.0			
FM	(30°-60°)	10583.2	43.5			
FH	(60°-80°)	9857.8	40.5			G4/12000
FVH	(80°-90°)	191.4	0.8			G2/225
BL	(0°-30°)	597.2	2.5	B2/1000		
BM	(30°-60°)	1182.6	4.9	B2/2500		
BH	(60°-80°)	459.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P456742

CATALOG NUMBER: GALN-SA8A-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3
2.5°	2548.7	2537.6	2532.0	2502.3	2480.0	2452.1	2452.1	2416.7	2375.8	2331.2	2290.3
5°	2833.2	2814.6	2790.4	2764.4	2712.3	2638.0	2638.0	2563.6	2478.1	2401.9	2318.2
7.5°	3106.4	3089.7	3048.8	2998.6	2913.1	2835.0	2829.5	2721.6	2619.4	2504.1	2385.1
10°	3346.3	3333.2	3297.9	3201.3	3112.0	3009.8	3007.9	2887.1	2768.1	2626.8	2480.0
12.5°	3513.6	3515.4	3469.0	3376.0	3260.7	3164.1	3156.6	3037.7	2913.1	2760.7	2580.3
15°	3632.6	3632.6	3584.2	3480.1	3376.0	3290.5	3283.1	3178.9	3050.7	2885.2	2690.0
17.5°	3666.0	3677.2	3625.1	3532.2	3448.5	3374.1	3372.3	3284.9	3182.7	3022.8	2801.6
20°	3653.0	3664.2	3623.3	3550.8	3493.1	3450.4	3444.8	3409.5	3314.7	3164.1	2920.5
22.5°	3625.1	3636.3	3606.5	3563.8	3535.9	3548.9	3539.6	3569.3	3519.2	3337.0	3061.8
25°	3630.7	3641.8	3619.5	3595.4	3619.5	3699.5	3723.6	3851.9	3807.3	3556.3	3214.3
27.5°	3805.4	3827.8	3796.1	3807.3	3892.8	4078.7	4125.2	4346.4	4149.4	3835.2	3452.2
30°	4194.0	4179.1	4119.6	4173.5	4471.0	4865.1	4852.1	4816.8	4508.2	4156.8	3734.8
32.5°	4547.2	4534.2	4530.5	4762.8	5302.0	5493.4	5484.2	5142.1	4829.8	4524.9	4013.7
35°	4690.3	4640.2	4629.0	5192.3	6093.9	5841.1	5783.5	5275.9	5220.2	4926.4	4298.1
37.5°	5121.6	5086.3	4913.4	5262.9	5777.9	5694.2	5649.6	5506.5	5636.6	5281.5	4619.7
40°	6010.3	5911.7	5755.6	5413.5	5329.9	5365.2	5409.8	5802.0	6129.2	5766.7	5049.1
42.5°	7114.5	7092.2	6802.2	6164.6	5538.1	5586.4	5644.0	6419.2	6837.5	6497.3	5750.0
45°	8440.0	8471.6	8053.3	7300.4	6478.7	6519.6	6603.3	7330.2	7796.8	7633.2	6852.4
47.5°	9644.7	9620.5	9479.2	8696.6	7938.1	7847.0	7982.7	8499.5	9124.1	9150.2	8220.7
50°	10856.8	10985.0	10775.0	10468.2	9904.9	9713.5	9663.3	9916.1	10867.9	10743.4	9864.0
52.5°	12598.7	12665.6	12271.5	12193.4	12321.7	11700.8	11650.6	11711.9	12563.4	12135.8	11094.7
55°	13693.7	13654.6	13507.7	14117.5	14625.0	13849.8	13786.6	13539.4	13970.6	13119.2	12278.9
57.5°	14039.4	14095.2	14437.3	15539.7	16740.6	16082.5	15967.2	15264.5	14985.7	14035.7	13368.3
60°	13885.1	13987.4	14725.4	16365.1	18030.8	17932.2	17833.7	16653.2	15714.4	14801.6	14132.4
62.5°	12786.4	12929.6	14110.1	16218.2	18467.7	19083.0	18960.3	17519.5	16199.6	15173.4	14266.2
65°	10715.5	10821.4	12516.9	14885.3	17846.7	19477.1	19432.5	17791.0	16275.8	14833.2	13349.7
67.5°	7638.8	7999.4	9570.3	12544.8	16010.0	18804.1	18880.4	17465.6	15560.1	13362.7	11055.7
70°	4801.9	5047.3	6173.9	8981.0	12834.8	16497.1	16748.0	15976.5	13504.0	10416.2	7400.8
72.5°	2290.3	2472.5	3275.6	5684.9	9059.1	12979.8	13178.7	13115.5	10442.2	6562.4	3818.5
75°	1020.6	1089.4	1563.4	2902.0	5848.5	8724.5	9239.4	9324.9	6525.2	3210.6	1485.4
77.5°	520.5	522.4	732.5	1405.4	2920.5	5205.3	5307.5	5606.8	3537.7	1414.7	516.8
80°	277.0	295.6	388.5	663.7	1515.1	2563.6	2550.6	2803.4	1569.0	693.4	172.9
82.5°	124.6	137.6	219.4	347.6	739.9	972.3	1048.5	1147.0	673.0	442.5	76.2
85°	37.2	44.6	107.8	174.7	267.7	280.7	314.2	405.3	381.1	314.2	39.0
87.5°	5.6	5.6	44.6	48.3	39.0	50.2	52.1	57.6	122.7	115.3	20.4
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: P456742

CATALOG NUMBER: GALN-SA8A-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3	2264.3
2.5°	2268.0	2255.0	2208.5	2169.5	2136.0	2115.6	2091.4	2076.5	2069.1	2063.5	2065.4
5°	2277.3	2245.7	2165.8	2102.6	2054.2	2002.2	1966.9	1946.4	1937.1	1922.2	1922.2
7.5°	2329.4	2279.2	2167.6	2071.0	1987.3	1916.7	1849.7	1825.6	1808.8	1805.1	1801.4
10°	2403.7	2340.5	2188.1	2054.2	1935.3	1838.6	1743.8	1660.1	1595.1	1556.0	1550.4
12.5°	2496.7	2405.6	2219.7	2043.1	1890.6	1719.6	1468.6	1299.5	1186.1	1150.7	1156.3
15°	2582.2	2483.7	2251.3	2033.8	1808.8	1425.9	1141.4	948.1	890.5	884.9	886.8
17.5°	2684.4	2567.3	2288.5	2020.8	1583.9	1089.4	847.7	795.7	806.8	825.4	823.6
20°	2790.4	2656.6	2333.1	1942.7	1264.1	819.8	749.2	754.8	771.5	788.2	791.9
22.5°	2903.8	2758.8	2385.1	1754.9	964.8	713.9	710.2	717.6	734.3	752.9	756.6
25°	3060.0	2887.1	2424.2	1509.5	730.6	660.0	667.4	680.4	695.3	715.7	719.4
27.5°	3260.7	3060.0	2444.6	1189.8	632.1	611.6	613.5	632.1	650.7	669.3	669.3
30°	3521.0	3266.3	2403.7	899.8	583.7	565.1	557.7	568.9	593.0	611.6	613.5
32.5°	3753.4	3461.5	2295.9	687.8	548.4	522.4	503.8	505.7	515.0	526.1	528.0
35°	3985.8	3651.1	2111.9	578.2	511.2	481.5	453.6	438.7	431.3	425.7	431.3
37.5°	4283.2	3887.2	1866.5	526.1	479.6	442.5	403.4	371.8	345.8	329.0	332.8
40°	4666.2	4214.4	1576.5	492.6	449.9	405.3	353.2	312.3	267.7	252.8	245.4
42.5°	5298.2	4710.8	1271.6	464.8	420.1	366.2	301.2	245.4	204.5	189.6	193.3
45°	6296.6	5337.3	979.7	435.0	390.4	323.5	252.8	193.3	159.9	152.4	156.2
47.5°	7620.2	6147.8	754.8	401.6	353.2	277.0	198.9	152.4	132.0	130.1	128.3
50°	8865.7	6902.6	630.2	364.4	308.6	230.5	163.6	128.3	115.3	113.4	113.4
52.5°	9992.3	7443.6	513.1	321.6	260.3	189.6	137.6	113.4	102.2	96.7	96.7
55°	10994.3	7796.8	416.4	269.6	204.5	150.6	119.0	102.2	89.2	81.8	79.9
57.5°	11751.0	7839.5	312.3	215.6	152.4	117.1	102.2	89.2	74.4	65.1	61.3
60°	12074.4	7469.6	230.5	163.6	113.4	93.0	81.8	72.5	55.8	46.5	44.6
62.5°	11749.1	6750.2	171.0	124.6	87.4	68.8	57.6	53.9	39.0	27.9	26.0
65°	10583.5	5711.0	135.7	94.8	65.1	50.2	37.2	35.3	24.2	13.0	11.2
67.5°	8479.1	4472.8	107.8	70.6	46.5	33.5	24.2	22.3	13.0	3.7	3.7
70°	5513.9	2859.2	87.4	52.1	29.7	22.3	14.9	11.2	7.4	1.9	0.0
72.5°	2727.2	1336.6	70.6	40.9	20.4	11.2	5.6	3.7	5.6	0.0	0.0
75°	1057.8	475.9	52.1	27.9	11.2	5.6	3.7	0.0	1.9	0.0	0.0
77.5°	351.4	158.0	31.6	14.9	7.4	3.7	0.0	0.0	0.0	0.0	0.0
80°	130.1	61.3	16.7	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	52.1	24.2	11.2	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.0	14.9	7.4	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	11.2	7.4	5.6	3.7	1.9	0.0	0.0	0.0	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)