

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: P651591

Luminaire Tested: **GALN-SA8D-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41131.6 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

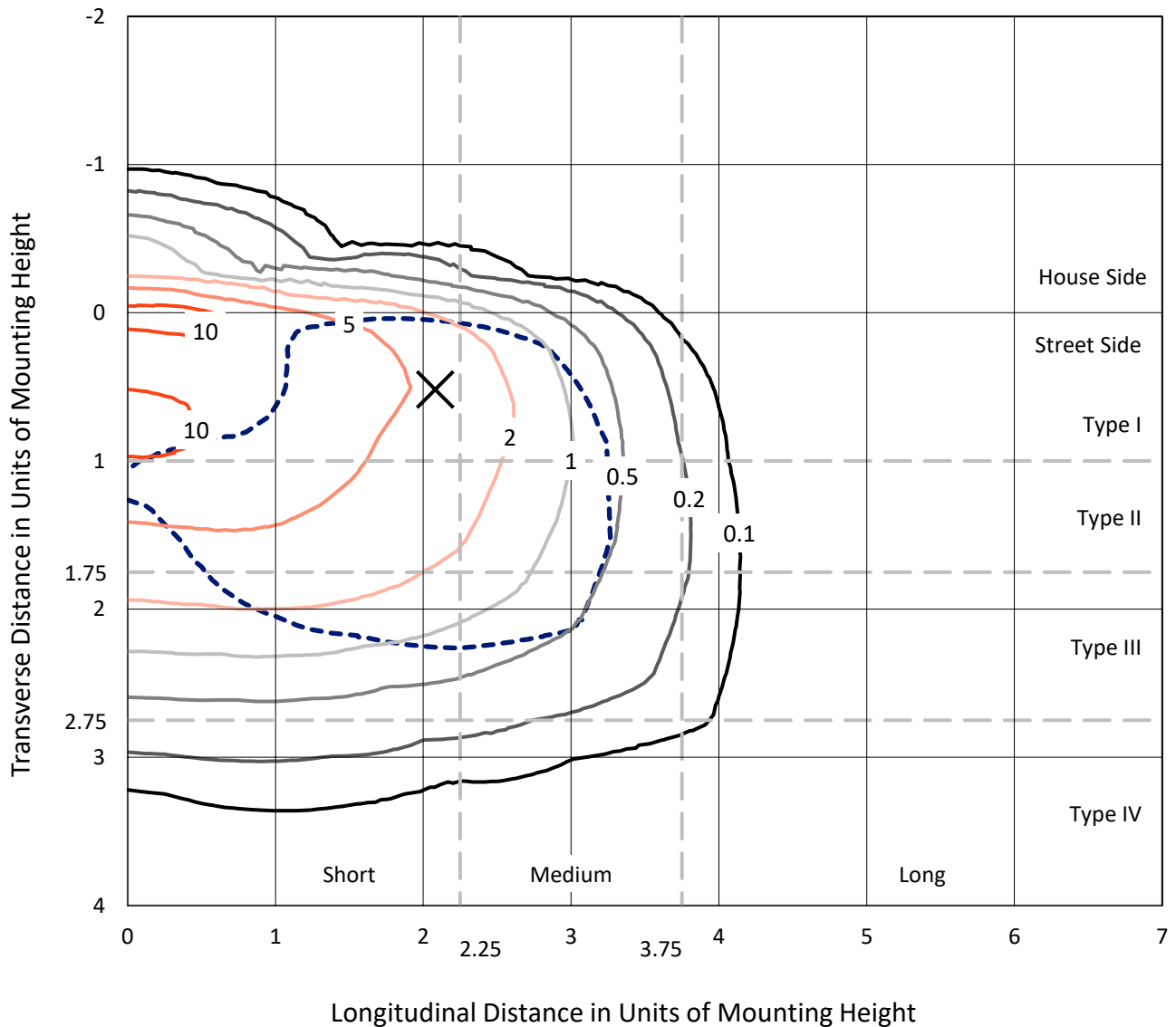
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651591
 CATALOG NUMBER: GALN-SA8D-840-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

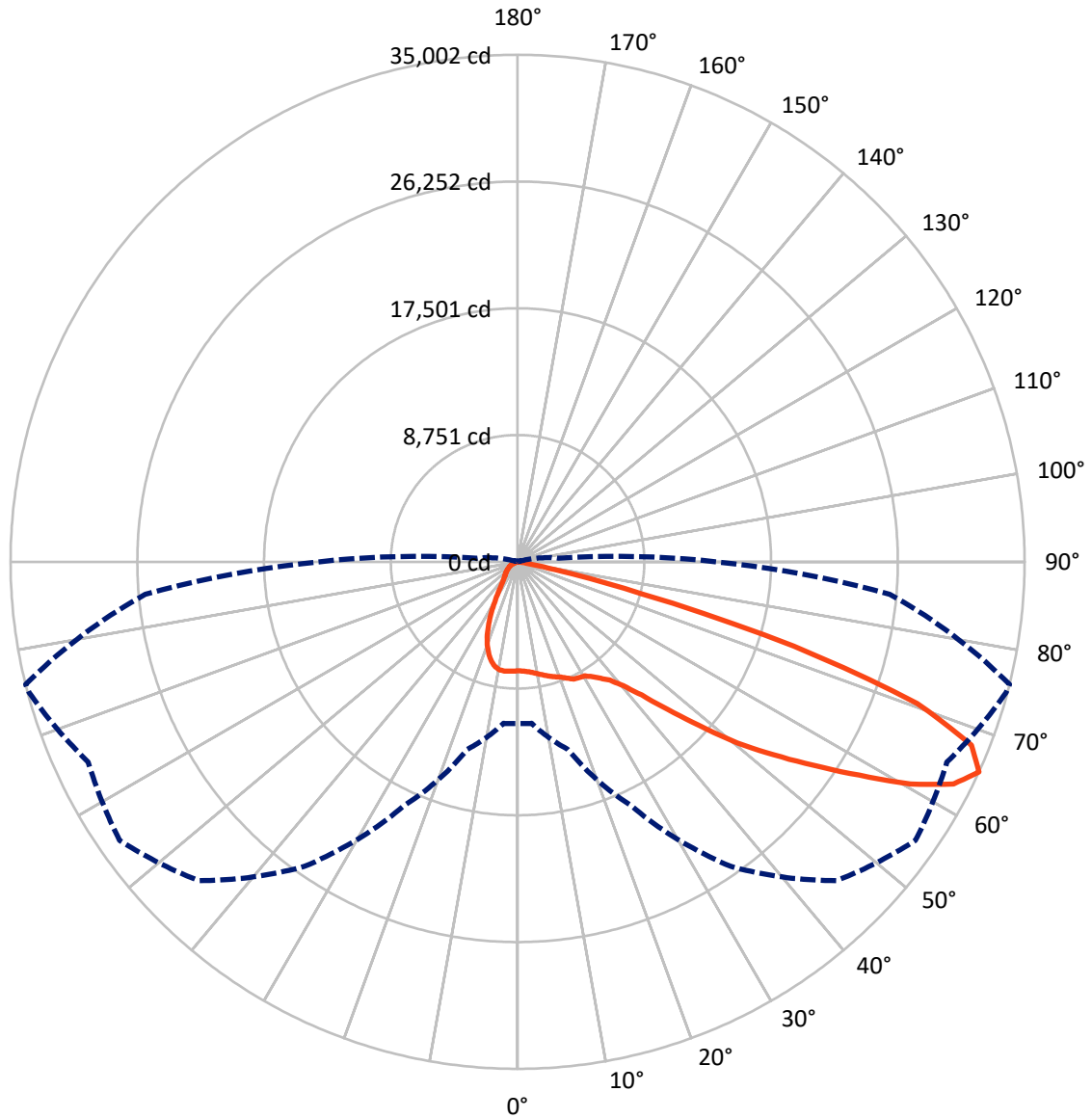
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - N/A

REPORT NUMBER: P651591
CATALOG NUMBER: GALN-SA8D-840-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P651591
 CATALOG NUMBER: GALN-SA8D-840-U-T3R-HSS

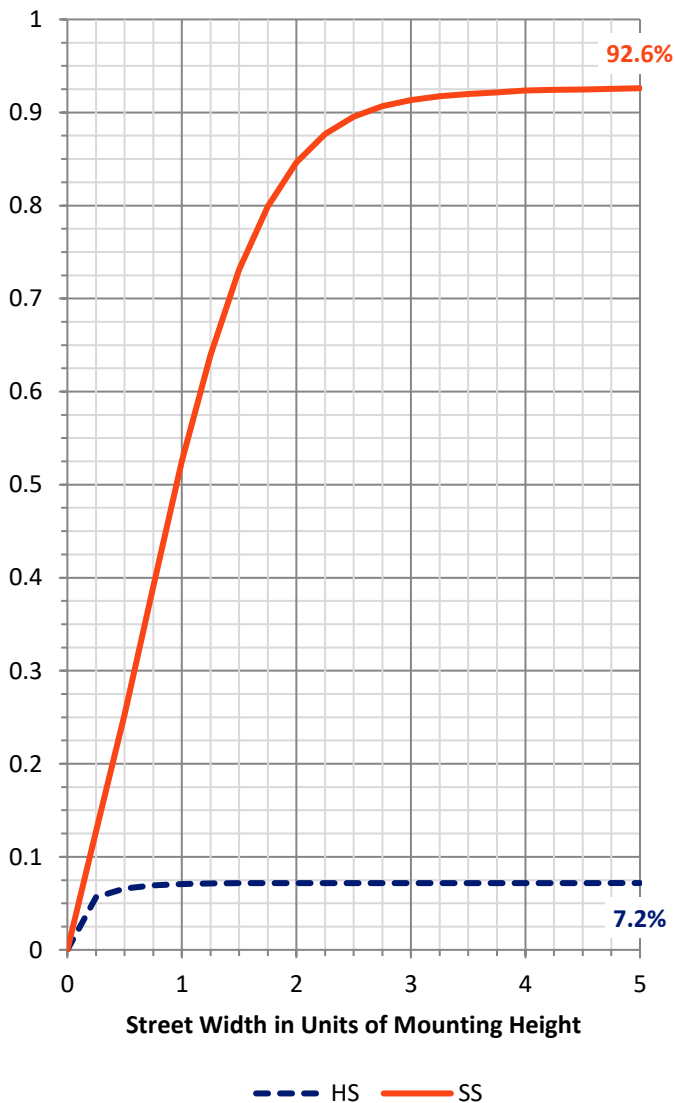
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.5	0.0	2970.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	38161.1	0.0	38161.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	41131.6	0.0	41131.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.8	1.5
10°-20°	1380.1	3.4
20°-30°	2223.9	5.4
30°-40°	3866.8	9.4
40°-50°	6389.6	15.5
50°-60°	9870.7	24.0
60°-70°	12053.5	29.3
70°-80°	4574.6	11.1
80°-90°	152.7	0.4
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°	41131.6	100.0
0°-180°	41131.6	100.0

Coefficient of Utilization



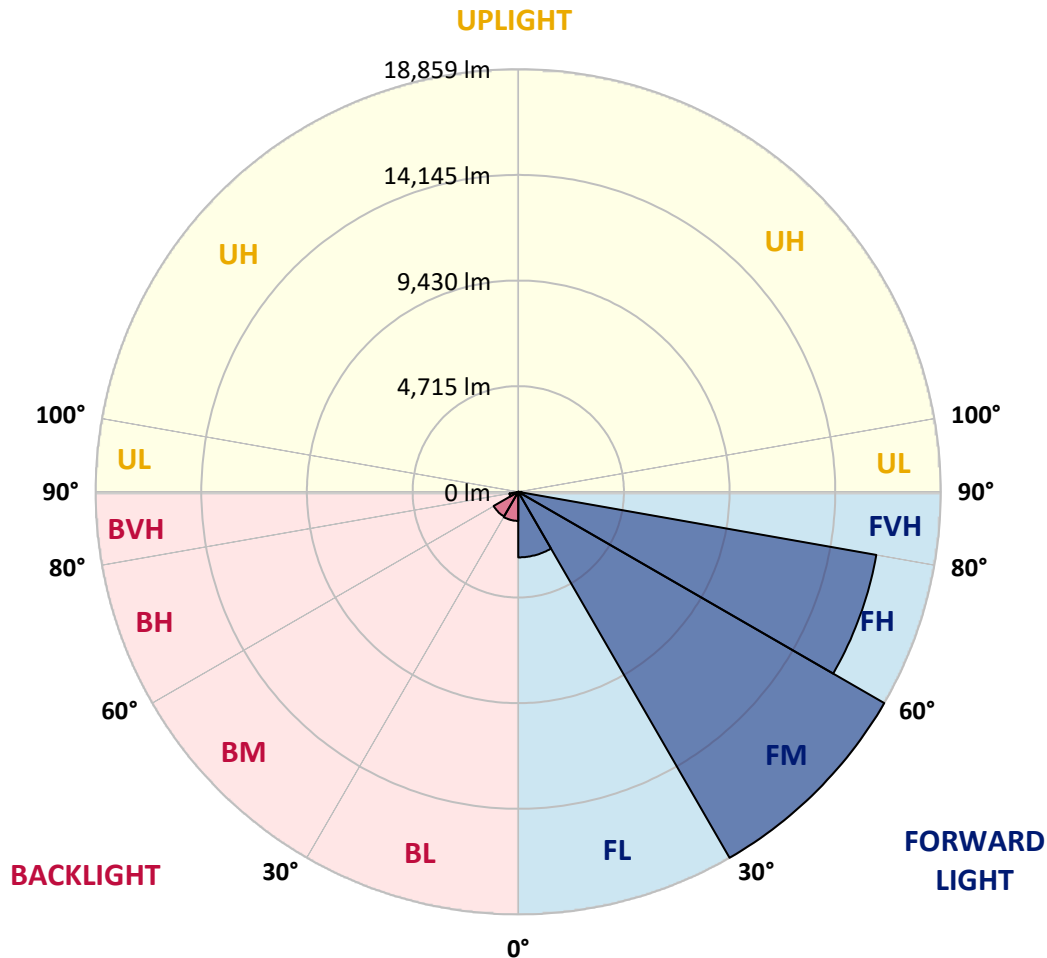
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 CATALOG NUMBER: GALN-SA8D-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.0	7.1			
FM (30°-60°)	18859.5	45.9			
FH (60°-80°)	16225.0	39.4			G5
FVH (80°-90°)	150.6	0.4			G2/225
BL (0°-30°)	1297.8	3.2	B3/2500		
BM (30°-60°)	1267.6	3.1	B2/2500		
BH (60°-80°)	403.1	1.0	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P651591

CATALOG NUMBER: GALN-SA8D-840-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3
2.5°	7190.3	7193.2	7210.6	7254.2	7321.0	7376.2	7422.7	7498.2	7550.4	7556.2	7573.6
5°	6693.8	6658.9	6693.8	6807.0	6908.6	7062.5	7251.3	7440.1	7608.5	7620.1	7701.5
7.5°	6136.2	6165.2	6220.4	6336.5	6528.2	6763.4	7036.4	7373.3	7692.7	7721.7	7881.5
10°	5569.9	5633.8	5723.8	5901.0	6168.1	6473.0	6844.7	7326.8	7826.3	7867.0	8142.8
12.5°	5047.2	5076.2	5186.5	5424.7	5755.7	6185.6	6699.6	7300.6	7974.4	8023.8	8421.6
15°	4646.4	4684.2	4780.0	4994.9	5363.7	5915.4	6580.5	7292.0	8119.6	8189.3	8700.4
17.5°	4570.9	4594.1	4634.8	4780.0	5102.3	5700.6	6473.0	7289.0	8259.0	8343.2	8958.8
20°	4881.7	4861.3	4820.7	4806.1	4983.3	5535.0	6394.6	7312.3	8392.6	8488.4	9231.8
22.5°	5659.9	5686.1	5447.9	5166.3	5108.1	5508.9	6383.0	7422.7	8604.6	8717.8	9536.8
25°	7312.3	7111.9	6740.2	6066.5	5558.3	5668.6	6513.7	7684.0	8851.4	8976.3	9812.6
27.5°	9138.9	9077.9	8500.1	7390.7	6444.0	6005.5	6746.0	7884.4	8932.8	9060.5	9969.5
30°	10933.6	11006.2	10344.0	9118.6	7730.5	6629.9	6963.8	7959.9	9005.3	9138.9	10169.9
32.5°	12597.6	12684.7	12103.9	10890.0	9246.4	7710.1	7338.4	8253.2	9310.3	9446.7	10503.8
35°	13907.3	13918.9	13480.4	12513.4	10901.6	9022.8	8148.6	8767.2	9722.6	9882.3	10858.1
37.5°	15109.6	15092.2	14578.1	13744.7	12281.0	10326.6	9168.0	9359.7	10193.1	10358.6	11369.2
40°	16001.1	16012.7	15847.2	15063.1	13567.5	11531.8	9975.3	9914.3	10983.0	11241.4	12112.6
42.5°	16596.4	16703.9	16785.2	16387.3	15185.1	13015.7	11215.3	11102.0	12353.6	12568.6	13163.8
45°	17078.4	17270.1	17676.7	17656.4	16738.7	14836.6	12917.0	12684.7	14296.4	14525.8	14502.6
47.5°	17429.9	17624.4	18298.1	18704.7	18199.4	16602.2	15057.3	14856.9	16616.7	16866.5	15980.8
50°	17610.0	17842.2	18701.8	19488.8	19340.7	18303.9	17496.7	17508.3	19419.1	19660.1	17694.1
52.5°	17188.9	17490.9	18916.7	20333.9	20621.4	19933.1	19782.1	20165.4	21913.7	22119.8	19242.0
55°	15844.3	16224.7	18623.4	21054.1	22105.3	21855.6	22378.3	22962.0	24640.5	24774.1	20830.5
57.5°	14993.4	15397.0	17758.1	21666.9	23888.4	24271.7	25099.3	25526.2	27454.5	27794.3	22654.2
60°	14276.1	14592.6	17046.6	21797.5	25700.5	27228.0	28032.4	28473.8	30927.7	31148.4	24660.8
62.5°	13082.6	13445.6	15844.3	20885.6	26612.4	29594.8	31261.7	31064.2	33613.9	33767.8	25892.1
65°	11163.0	11195.0	13404.9	18594.3	25671.4	31131.0	33529.7	32702.0	34897.5	35002.0	25796.3
67.5°	8331.6	8639.4	10312.2	14615.9	21684.3	29818.3	34264.4	32745.6	34087.2	33796.8	23749.0
70°	5366.6	5601.8	6990.0	10135.0	15635.2	24884.4	31827.9	30500.8	29917.1	29272.4	19439.5
72.5°	2477.1	2779.2	4152.8	5790.6	9272.5	17726.1	25836.9	24779.9	21533.2	19941.8	12356.6
75°	1080.3	1155.8	2050.2	3055.0	4347.3	9374.1	17034.9	15382.6	9725.5	8883.4	4945.5
77.5°	659.2	708.5	1074.5	1637.8	1707.6	3571.9	9176.7	6711.2	3005.6	2651.3	1341.6
80°	447.2	502.4	781.2	856.6	583.7	996.1	3444.1	1791.8	606.9	580.8	287.5
82.5°	217.8	275.8	577.9	479.2	252.6	319.4	1001.9	383.3	177.1	165.5	101.7
85°	32.0	55.2	325.2	313.6	113.3	75.5	177.1	95.9	61.0	58.1	46.4
87.5°	0.0	0.0	110.3	49.4	11.6	11.6	20.4	20.4	23.2	20.4	23.2
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: P651591

CATALOG NUMBER: GALN-SA8D-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3	7524.3
2.5°	7582.4	7596.9	7541.8	7463.3	7379.1	7294.8	7175.8	7068.4	7004.4	7042.2	6949.3
5°	7718.9	7707.3	7562.0	7323.9	7007.4	6626.9	6249.4	5927.1	5822.6	5665.7	5648.3
7.5°	7907.6	7875.7	7567.8	7021.9	6307.5	5593.2	4896.1	4434.4	4170.2	3946.6	3952.4
10°	8171.9	8079.0	7501.0	6490.5	5314.4	4237.0	3348.4	2738.5	2474.2	2390.0	2323.2
12.5°	8444.8	8264.8	7315.2	5773.1	4138.2	2895.3	2035.7	1664.0	1501.4	1449.1	1443.3
15°	8688.8	8404.2	6990.0	4910.7	3008.6	1849.9	1388.2	1266.1	1245.9	1248.7	1245.9
17.5°	8929.8	8514.5	6539.9	3995.9	2044.4	1327.1	1193.5	1164.5	1173.2	1184.8	1181.9
20°	9130.2	8537.7	5964.9	3049.2	1446.2	1164.5	1121.0	1115.2	1123.8	1132.6	1132.6
22.5°	9348.0	8555.2	5282.4	2111.2	1181.9	1083.2	1060.0	1060.0	1071.6	1083.2	1086.1
25°	9510.6	8459.4	4466.4	1515.9	1042.5	1004.8	993.1	996.1	1007.7	1013.5	1010.6
27.5°	9536.8	8189.3	3601.0	1161.6	946.7	909.0	897.3	909.0	894.4	903.1	897.3
30°	9560.0	7846.6	2724.0	978.7	859.6	801.5	784.1	766.7	755.0	740.5	737.6
32.5°	9632.6	7442.9	1989.2	879.9	778.3	714.3	673.7	624.4	586.6	575.0	572.0
35°	9664.5	6958.0	1460.7	801.5	705.7	636.0	563.4	493.7	438.5	418.1	432.7
37.5°	9786.5	6487.6	1132.6	743.4	641.8	554.6	461.7	374.6	322.4	310.7	316.6
40°	10036.2	5976.5	949.6	694.1	586.6	479.2	365.9	281.7	246.8	235.2	232.3
42.5°	10437.0	5468.3	845.0	647.6	531.4	403.7	287.5	220.7	191.7	182.9	182.9
45°	10924.8	4980.4	772.5	598.2	473.3	325.2	226.5	177.1	159.7	153.9	153.9
47.5°	11566.7	4553.5	711.5	548.8	409.5	258.4	182.9	153.9	142.3	145.2	148.1
50°	12217.2	4237.0	644.7	493.7	336.9	212.0	156.8	136.5	133.6	136.5	136.5
52.5°	12707.9	4051.1	554.6	418.1	264.2	177.1	139.4	127.7	124.9	119.1	119.1
55°	13370.0	4010.5	441.4	339.8	209.1	148.1	124.9	116.1	107.5	101.7	98.7
57.5°	14221.0	4056.9	339.8	264.2	162.6	121.9	110.3	95.9	84.2	72.6	72.6
60°	14749.5	3952.4	264.2	203.3	119.1	98.7	84.2	69.7	55.2	46.4	43.6
62.5°	14581.0	3510.9	209.1	151.0	84.2	72.6	55.2	46.4	32.0	23.2	20.4
65°	13712.8	2834.3	168.5	104.5	61.0	43.6	29.0	29.0	14.5	2.9	0.0
67.5°	12002.2	2099.6	133.6	69.7	34.8	20.4	14.5	8.7	0.0	0.0	0.0
70°	9769.1	1515.9	104.5	43.6	20.4	14.5	5.8	2.9	0.0	0.0	0.0
72.5°	6203.0	868.3	81.3	26.2	14.5	5.8	0.0	0.0	0.0	0.0	0.0
75°	2398.7	339.8	55.2	17.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	679.5	159.7	32.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	177.1	69.7	17.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	84.2	29.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.4	11.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.2	2.9	0.0	0.0	0.0	0.0	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)