

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: P652543

Luminaire Tested: **GALN-SA8B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34868.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

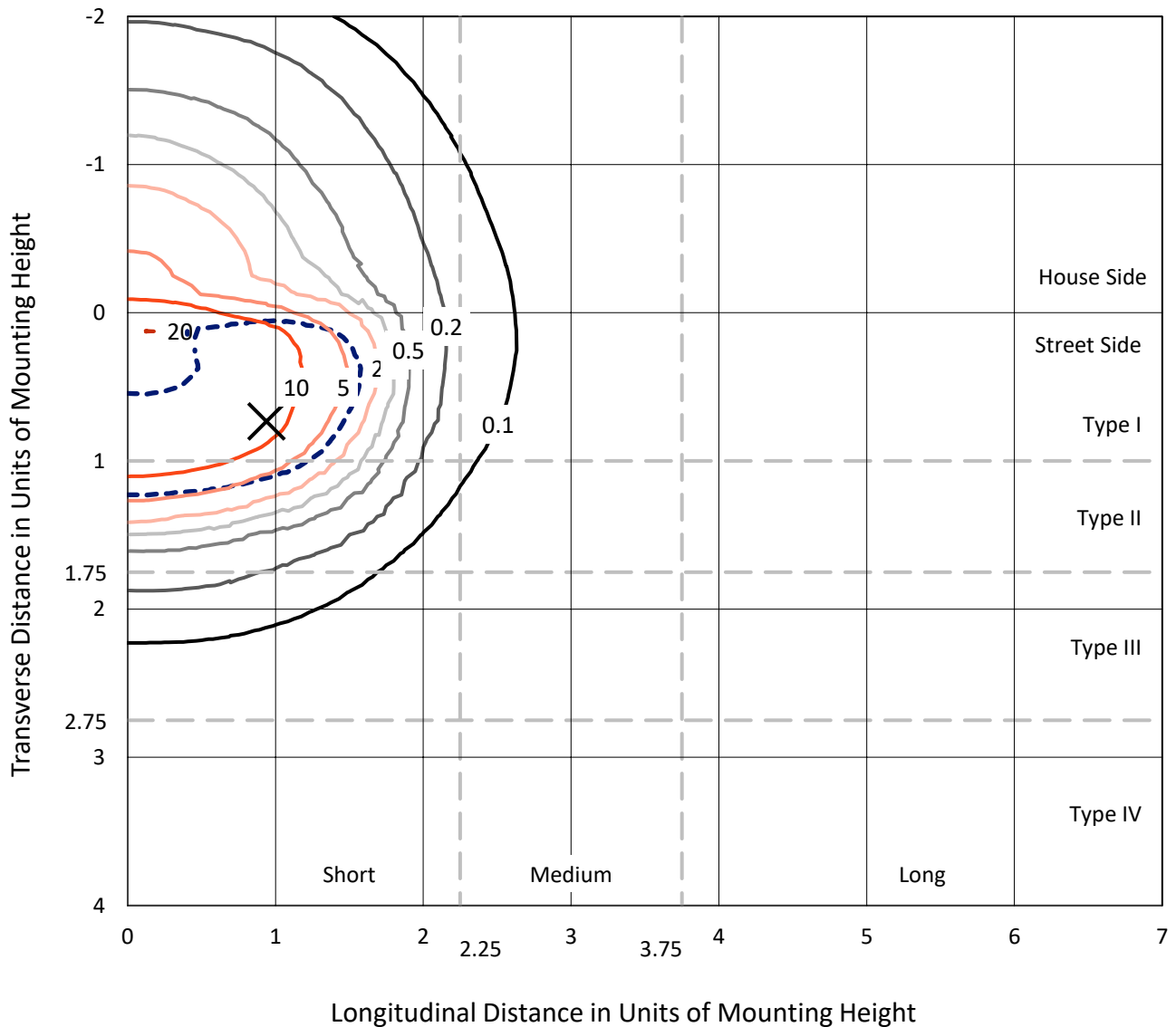
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652543
 CATALOG NUMBER: GALN-SA8B-840-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

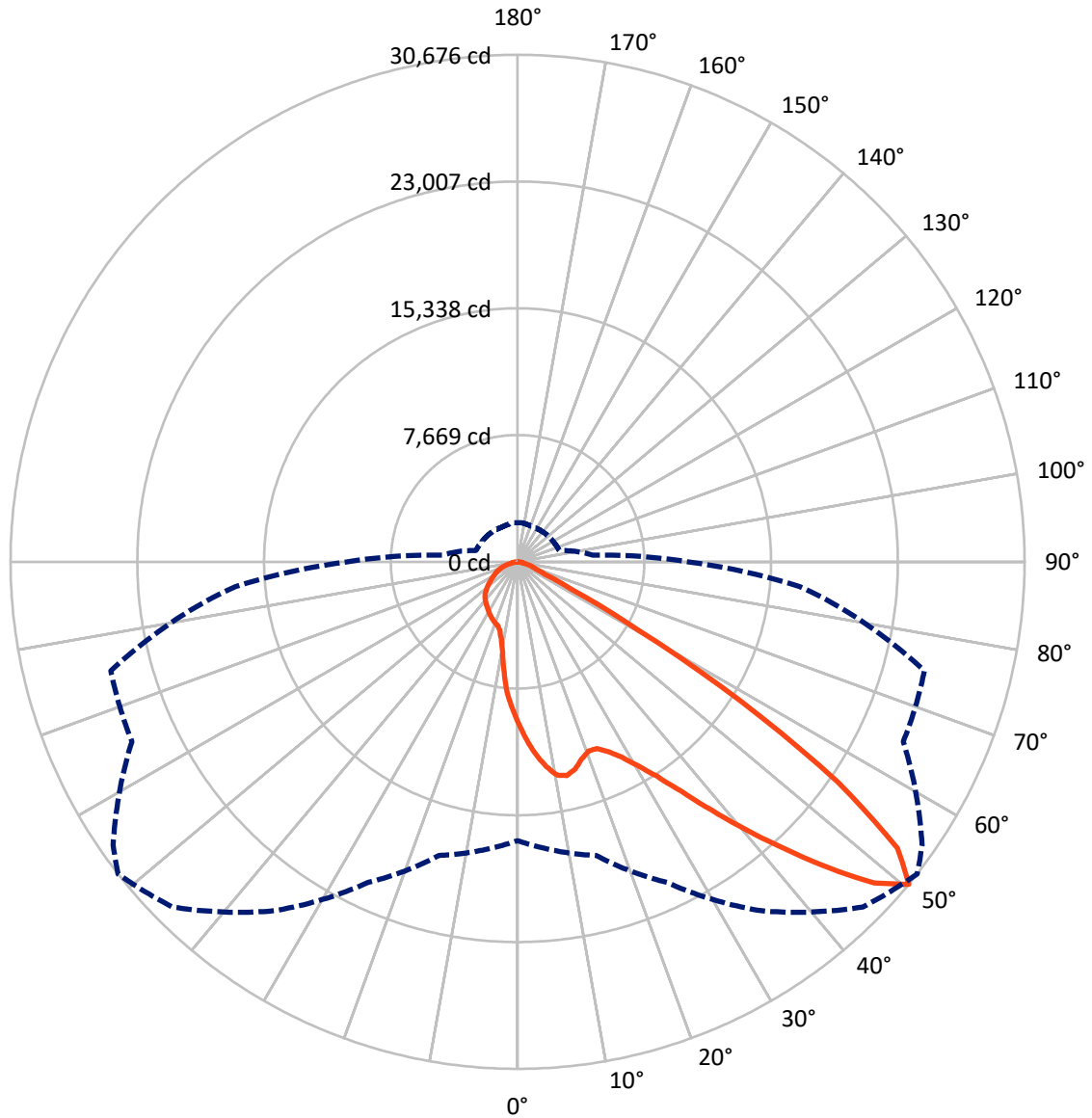
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

REPORT NUMBER: P652543
CATALOG NUMBER: GALN-SA8B-840-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P652543
 CATALOG NUMBER: GALN-SA8B-840-U-AFL-GRSWH

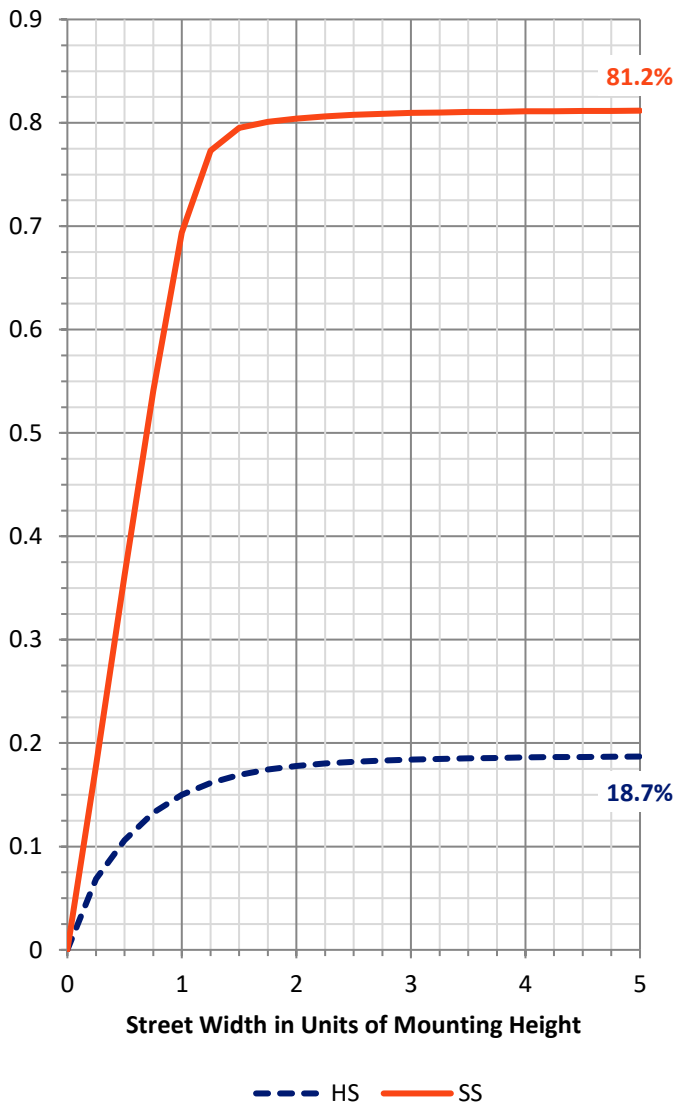
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6554.5	0.0	6554.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28314.2	0.0	28314.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	34868.7	0.0	34868.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.9	2.6
10°-20°	2428.1	7.0
20°-30°	4090.1	11.7
30°-40°	6863.5	19.7
40°-50°	10499.4	30.1
50°-60°	7654.9	22.0
60°-70°	1703.6	4.9
70°-80°	614.5	1.8
80°-90°	108.8	0.3
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°	34868.7	100.0
0°-180°	34868.7	100.0

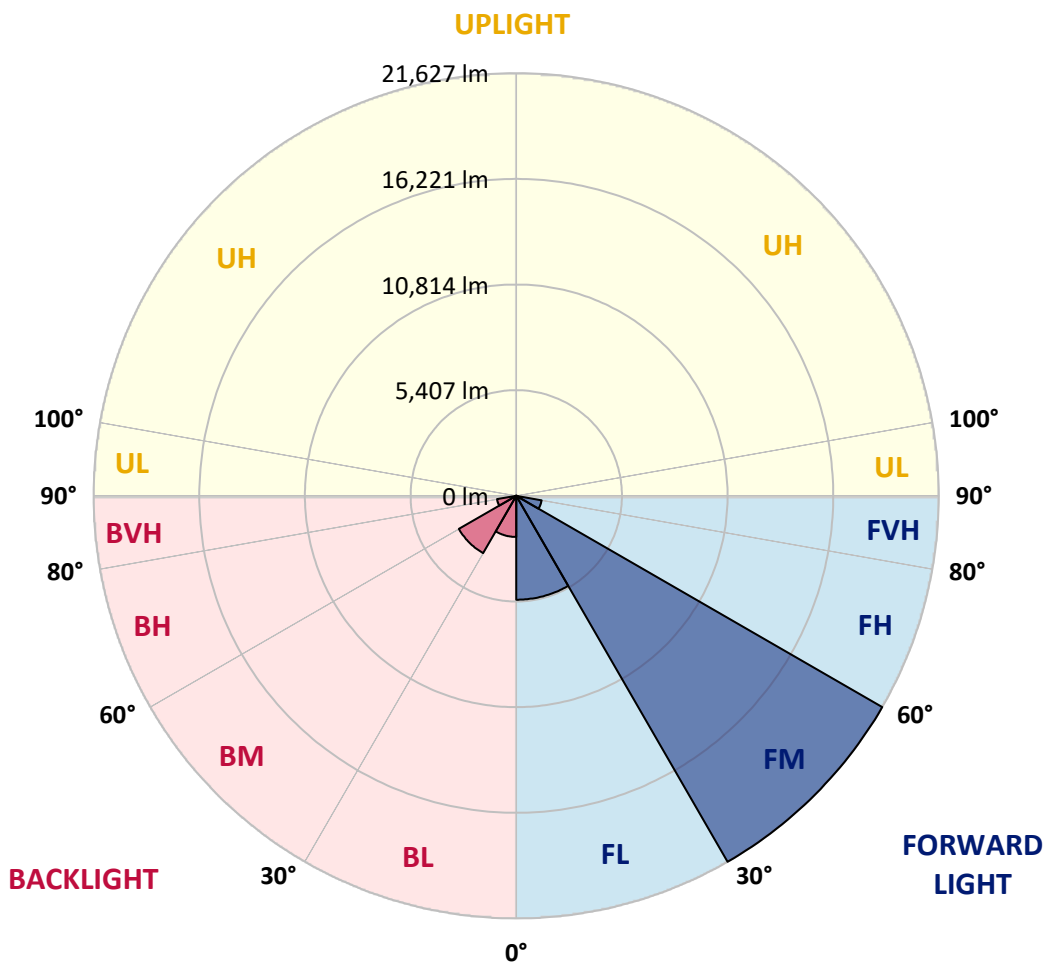


REPORT NUMBER: P652543
 CATALOG NUMBER: GALN-SA8B-840-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5318.7	15.3			
FM (30°-60°)	21627.3	62.0			
FH (60°-80°)	1319.5	3.8			G1/1800
FVH (80°-90°)	48.7	0.1			G1/100
BL (0°-30°)	2105.4	6.0	B3/2500		
BM (30°-60°)	3390.4	9.7	B3/5000		
BH (60°-80°)	998.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	60.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P652543

CATALOG NUMBER: GALN-SA8B-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9
2.5°	11572.8	11350.1	11375.3	11215.7	11043.3	10992.9	10816.4	10648.3	10522.3	10253.3	10005.4
5°	12648.6	12581.4	12480.5	12354.5	12224.2	11904.8	11724.1	11514.0	11051.7	10635.7	10224.0
7.5°	12804.1	12791.4	12846.1	12846.1	12892.3	12770.4	12514.1	12367.0	11875.3	11198.8	10434.0
10°	11711.5	11749.3	12014.0	12358.7	12837.7	13169.6	13127.6	13089.8	12551.9	11627.4	10682.0
12.5°	10841.7	10757.6	10913.1	11207.3	11925.8	12728.5	13270.5	13274.7	13136.0	12312.4	10862.6
15°	10350.0	10408.8	10450.9	10589.5	11131.6	12060.3	13014.1	13295.7	13905.0	12795.6	11148.4
17.5°	10665.1	10467.7	10459.3	10492.8	10770.2	11467.8	12539.3	13022.5	14325.3	13417.6	11501.3
20°	11077.0	11072.8	10955.1	10913.1	10908.9	11530.8	12228.4	12883.9	14548.0	14224.4	11858.6
22.5°	11799.7	11799.7	11606.5	11514.0	11316.5	11825.0	12270.4	12715.8	14917.7	14779.1	12030.8
25°	13009.9	12812.5	12480.5	12253.5	12140.1	12320.8	12715.8	13115.1	15241.4	15367.4	12388.0
27.5°	14127.7	13816.8	13652.9	13262.1	13110.9	13005.7	13367.1	13770.5	15619.6	16283.4	12581.4
30°	15396.8	15342.2	15048.0	14543.7	14169.8	13976.5	14308.4	14707.7	16312.9	17220.6	13026.8
32.5°	17666.0	17170.1	16770.9	16153.2	15543.9	15132.0	15459.9	15724.6	17464.3	18199.7	13514.2
35°	20115.9	19956.2	19267.0	18153.4	17220.6	16850.8	17044.0	17241.6	18804.8	19695.6	14333.7
37.5°	22523.7	22305.2	21737.9	20800.8	19666.2	18914.0	19052.7	19283.8	20309.1	21712.7	15333.8
40°	24255.0	23986.1	23700.3	23561.6	22435.4	21405.9	21326.1	21384.9	22343.0	23603.7	16443.1
42.5°	24381.1	24713.0	24801.3	25360.2	25095.4	24250.8	23759.2	23771.8	24284.5	25473.6	17565.1
45°	24116.3	23809.6	24460.9	25986.3	26860.4	27255.4	26427.5	26322.5	25486.3	26557.8	18124.1
47.5°	21338.7	21422.7	22523.7	24935.7	27461.3	29226.2	29032.9	28684.1	26129.2	26520.0	18035.7
50°	16867.6	17376.1	18397.1	21401.7	25780.4	29537.2	30676.0	29869.1	25746.8	25477.8	17136.5
52.5°	11232.5	11442.6	12114.9	15993.5	20729.4	26402.4	28785.0	28969.8	25393.8	24112.1	15997.8
55°	5000.6	4983.8	5929.3	8353.9	13005.7	20090.6	23519.7	24645.8	24036.5	22721.2	14888.3
57.5°	2117.9	2189.4	2575.9	3609.7	6395.7	12123.3	15934.7	16922.2	18485.4	18657.7	11421.5
60°	1433.0	1441.4	1546.4	1807.0	2676.8	5694.0	8358.1	9543.2	10660.9	10585.3	6059.6
62.5°	1126.2	1155.6	1235.4	1340.5	1588.4	2584.3	3739.9	4399.7	4471.1	3761.0	2298.6
65°	962.3	966.5	1046.4	1134.6	1243.8	1504.4	1802.8	1836.3	1857.3	1790.2	1689.3
67.5°	794.2	802.7	865.6	966.5	1067.3	1151.4	1235.4	1277.5	1374.1	1563.3	1538.0
70°	630.3	642.9	697.5	781.6	874.1	924.5	1029.6	1067.3	1155.6	1302.7	1361.5
72.5°	479.0	483.2	529.5	588.3	672.4	722.8	811.1	853.0	911.9	1038.0	1092.5
75°	344.6	357.2	390.8	420.2	432.9	466.4	550.5	596.7	680.8	735.4	739.6
77.5°	180.7	189.1	197.5	197.5	239.5	302.6	357.2	382.4	441.2	483.2	462.2
80°	71.4	75.6	96.6	130.3	168.1	218.5	256.3	269.0	319.3	344.6	357.2
82.5°	42.0	46.3	63.0	92.4	121.9	155.5	184.9	197.5	231.1	260.5	269.0
85°	21.0	25.2	37.8	58.9	79.8	96.6	92.4	88.2	88.2	84.0	88.2
87.5°	8.4	8.4	12.6	12.6	12.6	16.8	21.0	21.0	21.0	25.2	25.2
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: P652543

CATALOG NUMBER: GALN-SA8B-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9	9828.9
2.5°	9841.6	9673.4	9517.9	9232.2	8921.2	8833.0	8471.6	8341.4	8248.9	8139.6	8106.0
5°	9891.9	9669.2	9169.2	8593.5	8135.4	7547.1	7160.5	6744.5	6442.0	6366.3	6345.3
7.5°	9997.0	9614.6	8753.1	7883.3	6946.2	6147.8	5538.5	5210.7	4920.8	4904.0	4874.5
10°	10114.6	9450.7	8299.3	6933.6	5736.0	4996.4	4630.8	4487.9	4416.5	4399.7	4391.3
12.5°	10211.3	9417.1	7790.9	6009.1	4878.7	4433.3	4324.1	4311.5	4340.8	4349.2	4366.1
15°	10253.3	9282.6	7177.3	5181.3	4345.0	4181.2	4227.4	4277.8	4298.9	4353.4	4311.5
17.5°	10333.2	9110.3	6421.0	4525.8	4046.7	4076.2	4156.0	4214.8	4248.4	4286.2	4231.6
20°	10375.2	8954.9	5710.7	4134.9	3941.7	3996.3	4105.5	4151.8	4193.8	4210.6	4147.6
22.5°	10337.4	8635.5	5084.6	3819.8	3840.8	3912.2	4008.9	4059.3	4034.1	3966.8	3929.1
25°	10236.5	8185.9	4433.3	3618.1	3698.0	3824.0	3899.6	3861.8	3815.6	3777.8	3765.2
27.5°	10232.3	7635.4	3962.6	3433.2	3576.1	3748.3	3723.1	3689.6	3710.5	3681.1	3647.5
30°	10253.3	7101.7	3576.1	3328.1	3487.8	3571.9	3601.2	3567.7	3592.8	3538.3	3555.1
32.5°	10144.1	6580.7	3324.0	3206.2	3382.8	3378.5	3475.2	3500.4	3441.6	3328.1	3344.9
35°	10190.3	6160.4	3109.6	3151.6	3265.1	3265.1	3340.7	3311.4	3155.9	3088.6	3105.4
37.5°	10509.6	5748.6	3004.6	3076.0	3151.6	3185.3	3160.1	3034.0	2996.1	2996.1	3004.6
40°	10812.2	5395.6	2941.6	3059.2	3046.6	3067.6	2882.7	2895.3	2895.3	2899.5	2878.5
42.5°	11081.2	5156.1	2891.1	2958.3	2979.3	2870.1	2756.6	2744.0	2773.4	2769.2	2752.4
45°	11177.8	4958.5	2819.7	2844.9	2861.7	2681.0	2626.4	2601.1	2634.8	2647.4	2664.2
47.5°	10808.0	4794.7	2739.8	2689.4	2655.8	2538.1	2466.7	2420.5	2462.4	2533.9	2550.8
50°	10333.2	4580.4	2613.7	2517.1	2445.7	2395.3	2344.8	2298.6	2328.0	2378.4	2365.8
52.5°	9631.4	4244.2	2454.0	2353.2	2231.3	2244.0	2197.7	2172.6	2189.4	2189.4	2176.8
55°	8631.3	3487.8	2185.2	2113.7	2012.8	2046.5	2054.9	2021.3	1987.6	2017.1	1991.8
57.5°	5891.5	2462.4	1949.8	1949.8	1848.9	1895.2	1891.0	1811.2	1731.3	1739.7	1722.9
60°	3408.0	1962.4	1798.6	1781.7	1676.7	1714.5	1722.9	1668.3	1546.4	1554.8	1538.0
62.5°	1937.2	1676.7	1571.6	1546.4	1525.4	1559.0	1559.0	1487.6	1382.5	1390.9	1374.1
65°	1647.3	1554.8	1403.5	1399.3	1390.9	1399.3	1365.7	1290.1	1197.6	1159.8	1164.0
67.5°	1496.0	1437.2	1290.1	1252.2	1227.0	1222.8	1159.8	1088.3	1046.4	1012.7	1008.5
70°	1311.1	1264.9	1155.6	1105.2	1079.9	1021.1	958.1	911.9	853.0	836.2	853.0
72.5°	1038.0	1033.8	991.7	937.1	882.5	836.2	781.6	718.6	664.0	651.4	621.9
75°	718.6	727.0	735.4	727.0	680.8	621.9	558.9	508.5	441.2	403.4	395.0
77.5°	470.6	483.2	495.9	479.0	449.6	395.0	353.0	290.0	239.5	210.1	205.9
80°	344.6	361.4	369.8	357.2	323.5	281.6	235.3	184.9	147.1	121.9	121.9
82.5°	264.7	281.6	290.0	269.0	235.3	201.7	168.1	130.3	100.8	79.8	75.6
85°	92.4	88.2	105.0	109.2	130.3	121.9	100.8	75.6	58.9	42.0	37.8
87.5°	25.2	25.2	29.4	29.4	25.2	21.0	21.0	21.0	16.8	12.6	12.6
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)