

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: P647132

Luminaire Tested: **GALN-SA8C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37898.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

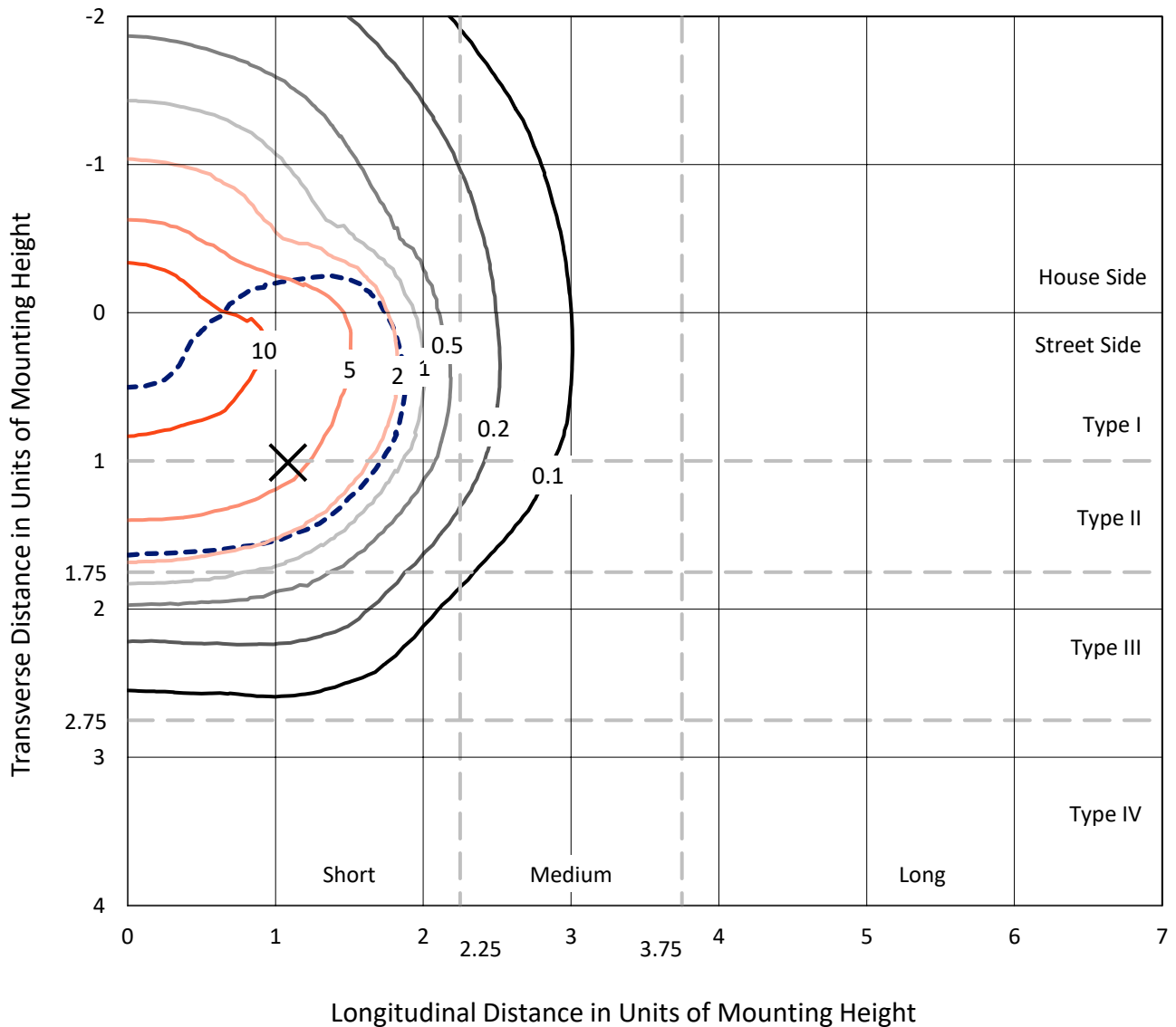
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

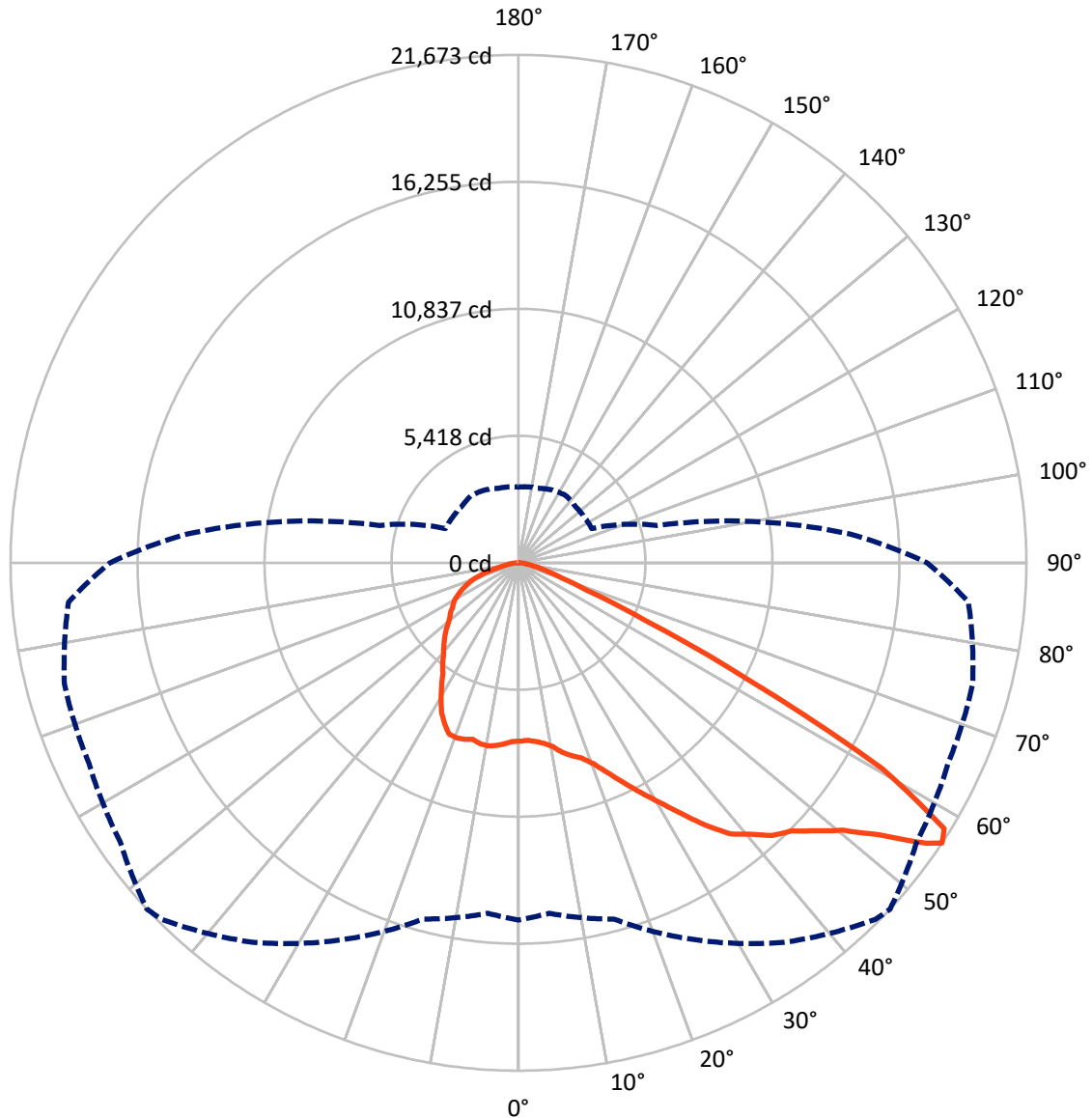
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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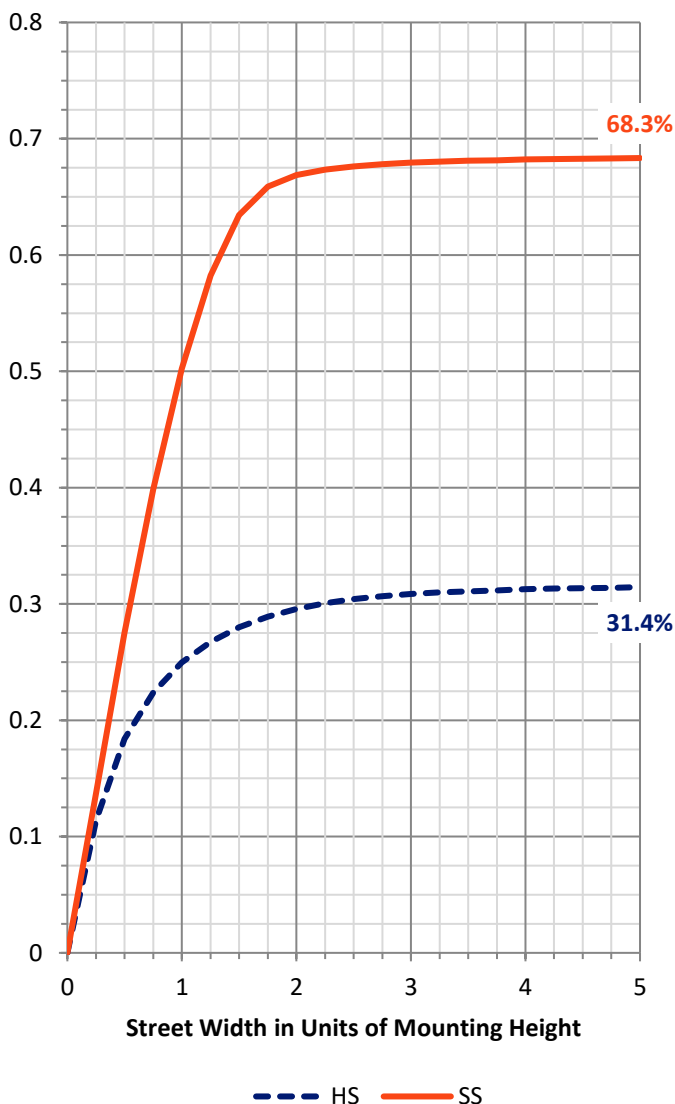
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12009.7	0.0	12009.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	25889.1	0.0	25889.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	37898.8	0.0	37898.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.8	2.0
10°-20°	2339.9	6.2
20°-30°	4136.3	10.9
30°-40°	6212.6	16.4
40°-50°	8526.2	22.5
50°-60°	10157.9	26.8
60°-70°	4346.9	11.5
70°-80°	1230.2	3.2
80°-90°	207.0	0.5
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°	37898.8	100.0
0°-180°	37898.8	100.0

Coefficient of Utilization



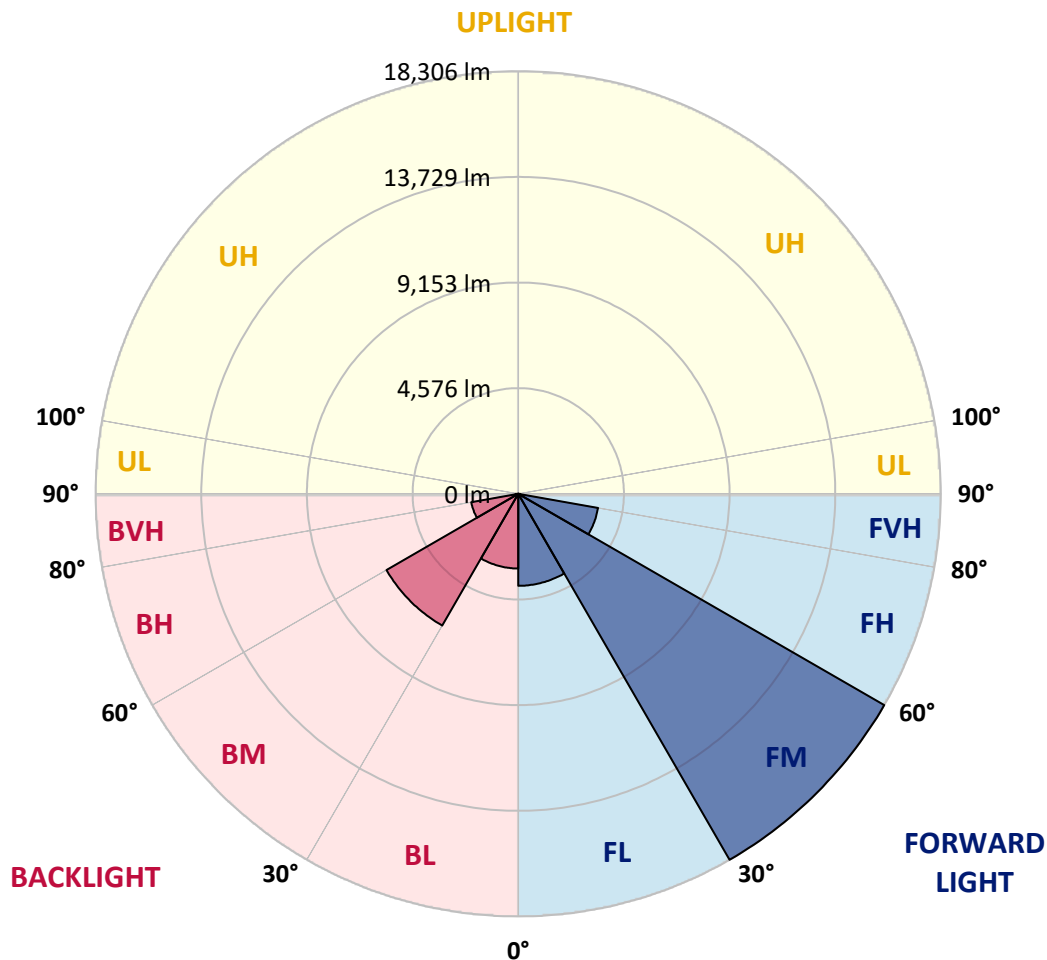
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3984.5	10.5			
FM (30°-60°)	18306.0	48.3			
FH (60°-80°)	3510.8	9.3			G2/5000
FVH (80°-90°)	87.9	0.2			G1/100
BL (0°-30°)	3233.5	8.5	B4/5000		
BM (30°-60°)	6590.7	17.4	B4/8500		
BH (60°-80°)	2066.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	119.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7
2.5°	7583.7	7569.2	7559.6	7636.9	7607.9	7612.7	7583.7	7612.7	7632.1	7588.5	7651.4
5°	7569.2	7612.7	7574.0	7598.2	7661.0	7641.7	7661.0	7719.0	7704.6	7690.1	7670.7
7.5°	7704.6	7709.4	7738.4	7748.0	7767.4	7748.0	7777.1	7830.2	7815.7	7733.5	7743.2
10°	7897.9	7907.5	7912.4	7965.5	7999.4	8004.2	7970.4	7922.1	7917.2	8028.4	7951.1
12.5°	8120.3	8096.1	8154.1	8173.4	8212.0	8255.6	8299.1	8197.5	8260.4	8265.2	8173.4
15°	8444.0	8468.2	8400.6	8400.6	8415.1	8419.9	8540.7	8492.4	8482.7	8429.5	8468.2
17.5°	8927.5	8763.1	8758.2	8690.6	8680.9	8719.6	8763.1	8801.8	8932.2	8825.9	8618.1
20°	9280.3	9319.0	9178.7	9096.6	9111.1	9198.1	9154.6	9328.6	9420.4	9246.4	9043.4
22.5°	9903.8	9773.2	9807.1	9623.5	9637.9	9729.8	9724.9	9903.8	9956.9	9681.4	9386.6
25°	10324.3	10290.4	10319.5	10174.5	10193.8	10266.3	10382.3	10677.1	10590.2	10285.6	9604.1
27.5°	10938.1	10870.5	10846.3	10793.1	10773.8	10967.2	11102.5	11416.7	11353.8	10909.1	9990.8
30°	11566.5	11523.0	11547.1	11329.6	11407.0	11817.8	11856.5	12286.7	12257.7	11474.6	10420.9
32.5°	12001.5	12025.6	12069.2	11948.3	12291.5	12620.2	12750.7	13238.9	13263.0	12446.2	11252.3
35°	12702.4	12620.2	12644.4	12784.5	12944.0	13543.4	13756.1	14079.9	14282.9	13466.0	12049.8
37.5°	13142.2	13229.2	13127.7	13350.1	13765.7	14485.9	14679.2	15012.8	15225.4	14471.4	13137.3
40°	13828.6	13688.4	13760.9	13920.4	14345.7	15283.5	15230.3	15573.4	15641.1	15326.9	14152.4
42.5°	14568.1	14500.4	14398.9	14761.4	15119.1	15800.6	15907.0	15747.5	16090.6	16163.1	15602.4
45°	15452.6	15534.8	15549.3	15558.9	15873.1	16467.6	16322.7	16182.4	16578.8	17105.7	16501.5
47.5°	16274.3	16013.3	16201.8	16462.8	16907.5	16912.3	17081.5	16748.0	17168.4	17637.3	17313.5
50°	16549.8	16424.1	16675.5	17168.4	17854.8	17927.3	17946.7	17473.0	17690.5	18062.6	17593.9
52.5°	16443.5	16399.9	17042.8	17806.5	18811.9	19179.2	19275.9	18691.0	18811.9	18642.7	18212.5
55°	15935.9	16066.5	16714.2	18270.5	19812.4	20948.2	21131.9	20392.4	19623.9	19754.4	19280.7
56°	15239.9	15012.8	15737.8	17743.6	19768.9	21523.4	21673.3	20750.0	20228.0	20058.9	19271.0
57.5°	12929.5	12634.6	13586.9	15965.0	18671.7	21305.9	21417.1	20899.9	20126.5	19783.4	17864.5
60°	7569.2	7714.2	8922.6	11010.6	14403.8	17468.2	17840.3	18217.4	17700.2	16163.1	13296.9
62.5°	3654.1	3562.3	4427.5	6312.5	8777.6	11150.8	11039.7	12098.1	12678.2	11484.3	8395.7
65°	1914.0	1904.4	2416.7	3446.3	4823.8	5858.2	5959.6	6530.0	7327.5	5916.2	4263.1
67.5°	1406.5	1445.2	1701.4	2421.6	3103.1	3165.9	3151.4	3436.6	3513.9	2972.6	2619.8
70°	1102.0	1121.3	1309.9	1841.5	2310.4	2068.7	2025.2	2059.1	2286.2	2382.9	2266.9
72.5°	797.5	816.8	976.3	1242.2	1445.2	1411.4	1440.4	1628.9	1909.2	2010.7	1889.8
75°	531.7	546.2	633.2	758.9	855.5	923.2	976.3	1193.8	1454.9	1512.9	1454.9
77.5°	367.3	381.9	439.8	536.5	546.2	589.7	609.0	710.5	870.0	942.5	903.9
80°	207.8	207.8	236.9	275.5	338.3	396.4	406.0	488.2	560.7	609.0	618.6
82.5°	96.7	101.5	125.7	169.2	222.4	275.5	285.2	338.3	391.5	439.8	454.4
85°	48.3	53.2	72.5	101.5	135.3	164.4	159.5	164.4	174.0	164.4	169.2
87.5°	14.5	14.5	19.3	24.2	19.3	24.2	24.2	29.0	33.8	38.7	43.5
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°	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7	7612.7
2.5°	7656.2	7670.7	7574.0	7665.9	7632.1	7627.2	7694.9	7685.2	7709.4	7699.7	7641.7
5°	7661.0	7627.2	7728.7	7636.9	7680.4	7772.2	7709.4	7854.4	7781.8	7830.2	7723.9
7.5°	7810.9	7820.5	7801.2	7839.9	7820.5	7864.1	7830.2	7864.1	7806.0	7810.9	7907.5
10°	7941.4	7912.4	7946.2	7897.9	7931.7	7917.2	7839.9	7815.7	7835.0	7810.9	7873.7
12.5°	8183.1	8129.9	8105.7	8047.8	8009.1	7864.1	7743.2	7675.5	7767.4	7781.8	7752.9
15°	8429.5	8434.4	8323.2	8192.8	7951.1	7733.5	7762.6	7786.7	7786.7	7825.4	7752.9
17.5°	8584.3	8584.3	8482.7	8221.7	7975.2	7849.6	7820.5	7743.2	7675.5	7665.9	7661.0
20°	8854.9	8772.7	8540.7	8216.9	7965.5	7907.5	7690.1	7506.4	7366.2	7317.8	7313.1
22.5°	9164.2	8956.4	8632.6	8226.6	7951.1	7868.9	7462.9	7187.4	6936.0	6829.7	6844.2
25°	9449.4	9115.9	8685.7	8183.1	7897.9	7501.5	7047.2	6665.4	6404.3	6317.3	6273.9
27.5°	9647.6	9285.1	8685.7	8221.7	7699.7	7090.7	6626.7	6138.5	5911.3	5853.3	5863.0
30°	9913.4	9497.8	8835.6	8139.5	7303.4	6559.0	6003.2	5684.2	5548.8	5500.5	5534.3
32.5°	10537.0	10053.6	9043.4	7941.4	6834.5	6027.3	5577.9	5399.0	5200.8	5104.1	5070.3
35°	11213.7	10580.4	9246.4	7607.9	6307.7	5544.0	5263.6	5099.3	4862.4	4756.1	4775.4
37.5°	12170.6	11257.1	9260.9	7056.9	5737.4	5273.3	5017.2	4761.0	4567.6	4403.3	4355.0
40°	13461.2	12180.3	9227.1	6476.8	5278.1	4954.3	4765.8	4446.8	4229.3	4113.3	4137.5
42.5°	14597.1	13263.0	9086.9	5819.5	4862.4	4736.8	4524.1	4210.0	3997.3	3876.5	3866.8
45°	15554.1	14060.6	8821.0	5258.8	4514.5	4495.1	4248.6	4006.9	3837.8	3726.6	3774.9
47.5°	16438.6	14703.4	8419.9	4698.2	4195.5	4234.2	3997.3	3847.4	3741.1	3639.6	3634.8
50°	16757.6	14693.8	8067.1	4234.2	3939.3	3919.9	3910.3	3750.8	3639.6	3552.6	3591.2
52.5°	17289.3	14858.1	7685.2	3915.1	3707.3	3712.1	3746.0	3629.9	3504.2	3451.1	3499.5
55°	18053.0	14882.2	6844.2	3542.9	3513.9	3547.8	3547.8	3470.4	3364.1	3320.6	3296.4
56°	17429.5	14162.0	6138.5	3446.3	3417.2	3417.2	3509.1	3422.1	3291.6	3257.7	3228.8
57.5°	16076.1	12407.5	5138.0	3330.3	3286.7	3354.5	3402.8	3310.9	3190.1	3141.8	3170.8
60°	11088.0	8395.7	3861.9	3078.9	3078.9	3190.1	3228.8	3093.4	3040.2	3035.5	2996.8
62.5°	6472.0	4891.5	3020.9	2851.8	2861.4	2953.2	2982.2	2904.9	2837.3	2919.4	2958.1
65°	3431.7	2919.4	2590.7	2610.1	2614.9	2687.4	2813.1	2808.2	2803.4	2827.6	2832.4
67.5°	2484.4	2426.4	2353.9	2334.6	2344.2	2397.4	2523.1	2619.8	2614.9	2556.9	2513.4
70°	2213.7	2131.6	2088.0	2092.9	2054.2	2117.1	2218.6	2281.4	2170.2	2102.6	2073.5
72.5°	1841.5	1817.4	1788.4	1793.2	1715.9	1701.4	1585.3	1585.3	1556.4	1537.0	1570.9
75°	1406.5	1396.9	1411.4	1387.2	1305.0	1218.0	1150.4	1087.5	990.9	952.2	932.9
77.5°	889.3	918.4	952.2	899.0	865.2	802.3	734.7	671.8	594.5	551.0	551.0
80°	604.2	628.4	652.6	642.8	604.2	546.2	493.0	425.3	372.2	338.3	333.5
82.5°	459.2	478.5	512.3	473.7	435.0	386.6	343.2	294.9	246.5	207.8	207.8
85°	164.4	188.5	207.8	227.1	241.7	246.5	212.7	174.0	140.2	111.2	106.3
87.5°	43.5	48.3	53.2	48.3	48.3	48.3	53.2	48.3	43.5	33.8	33.8
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)