

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: P533129

Luminaire Tested: **GALN-SA8C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34977 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

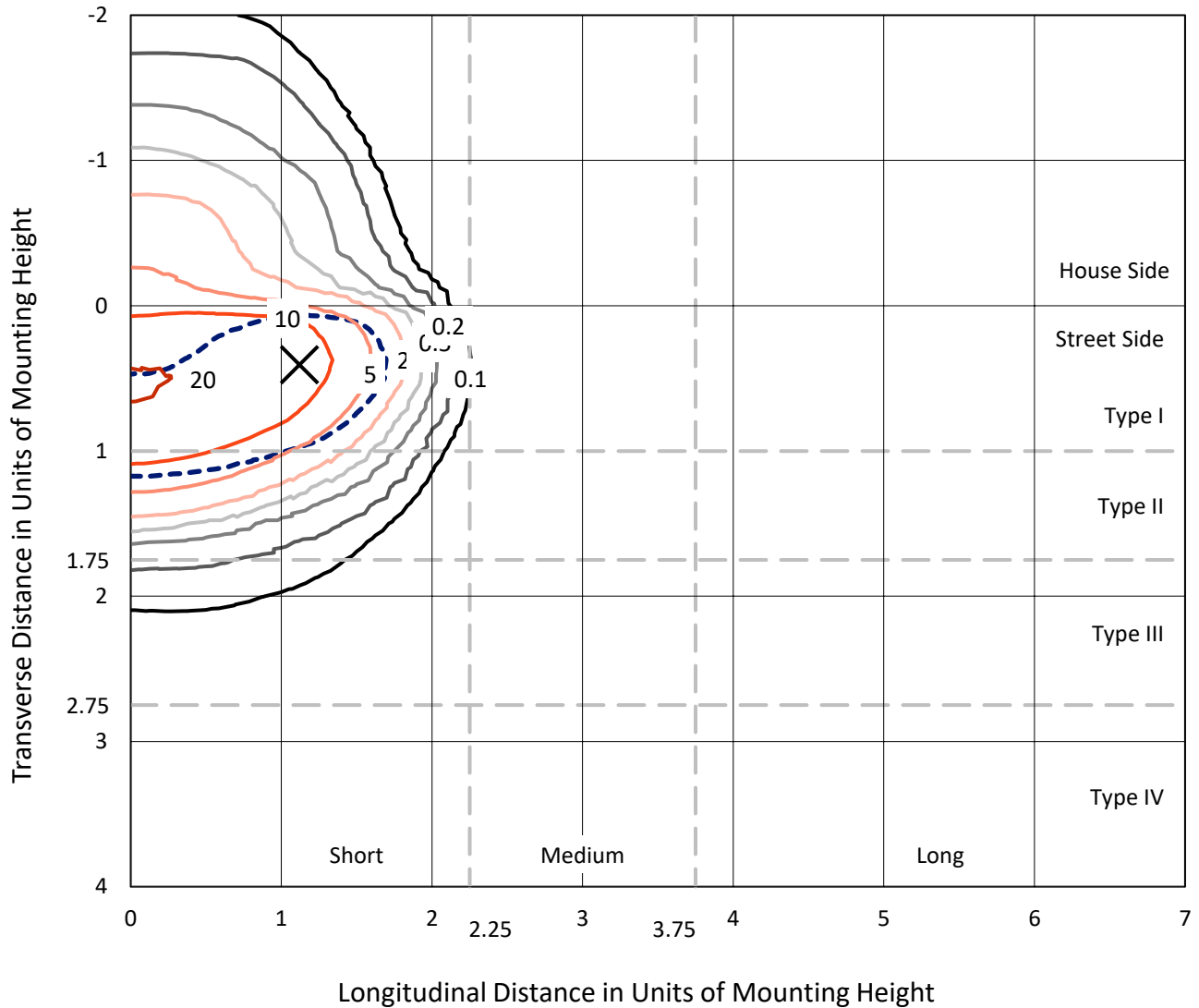
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

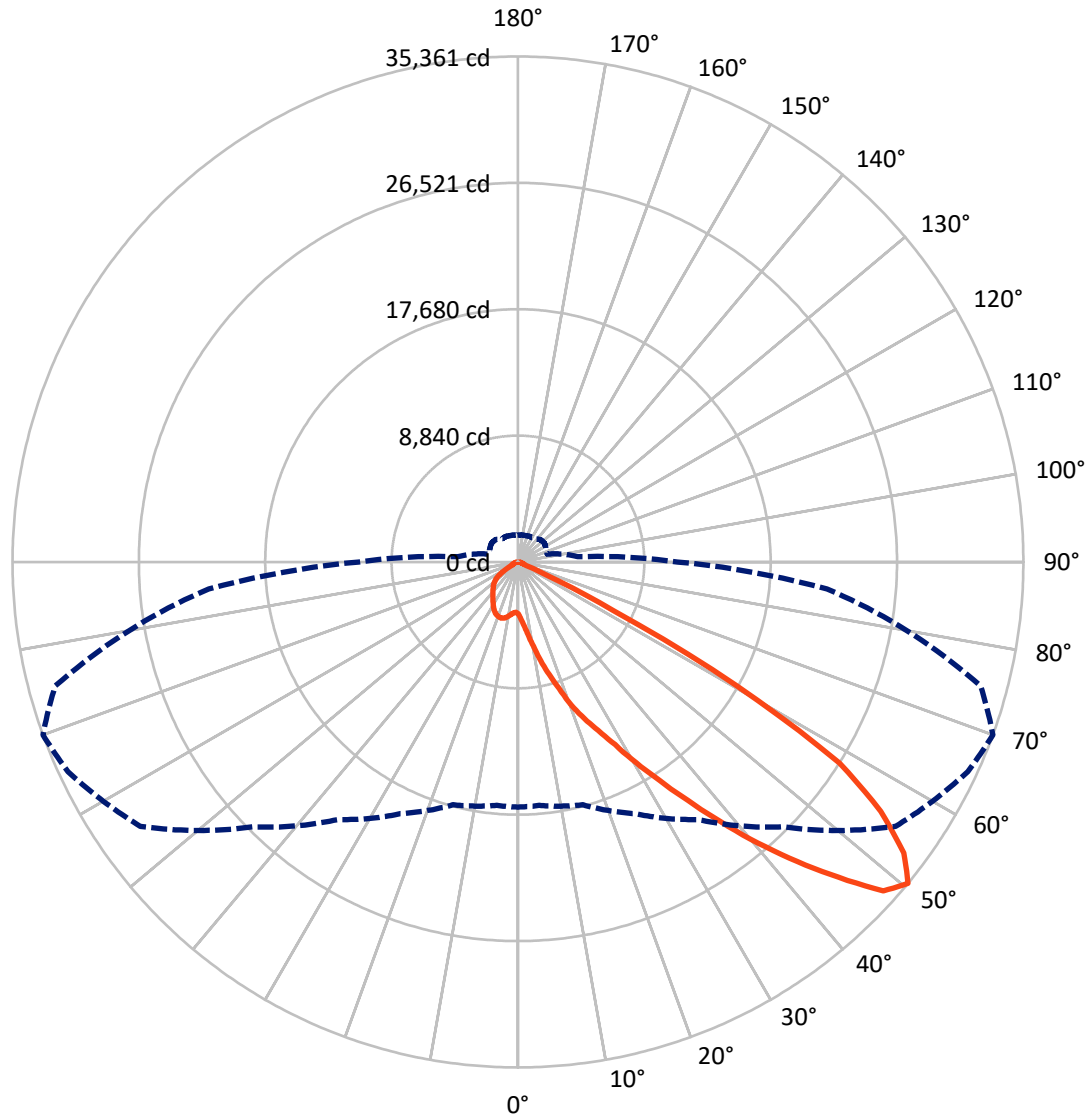
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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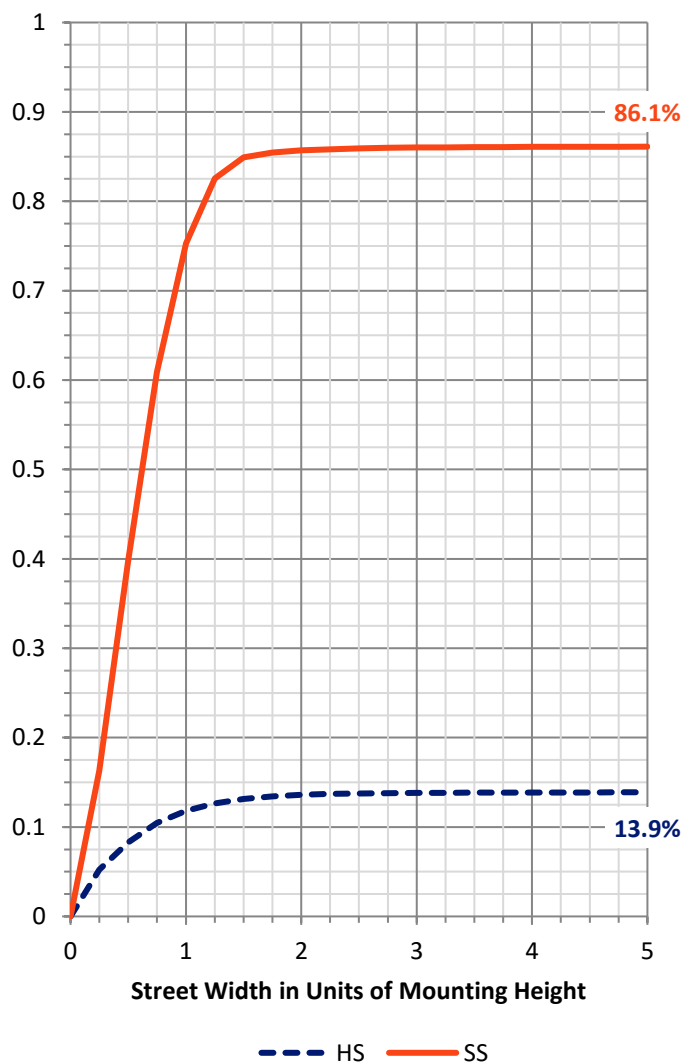
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4884.8	0.0	4884.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	30092.2	0.0	30092.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	34977.0	0.0	34977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.3
10°-20°	2037.9	5.8
20°-30°	4275.1	12.2
30°-40°	7368.8	21.1
40°-50°	10769.5	30.8
50°-60°	8387.7	24.0
60°-70°	1421.1	4.1
70°-80°	195.2	0.6
80°-90°	50.6	0.1
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°	34977.0	100.0
0°-180°	34977.0	100.0

Coefficient of Utilization



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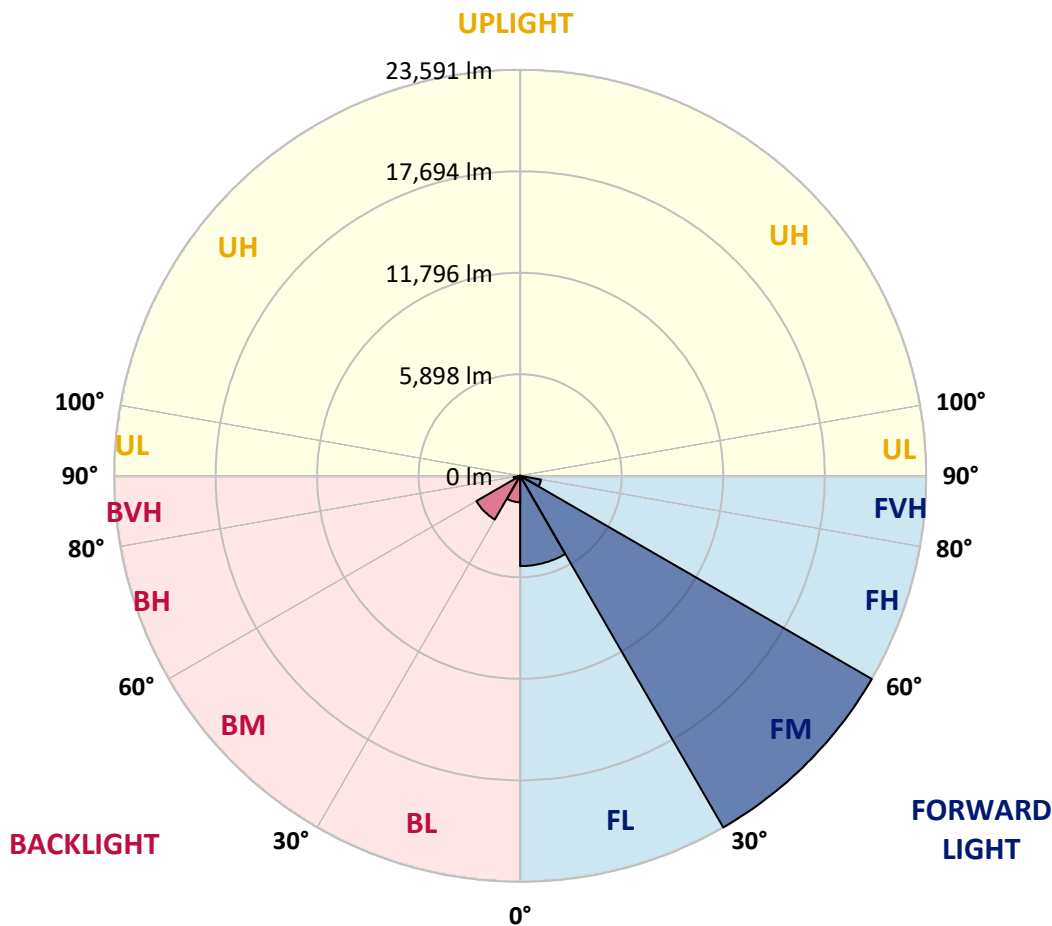
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5247.0	15.0			
FM (30°-60°)	23591.4	67.4			
FH (60°-80°)	1230.5	3.5			G1/1800
FVH (80°-90°)	23.4	0.1			G1/100
BL (0°-30°)	1537.1	4.4	B3/2500		
BM (30°-60°)	2934.6	8.4	B3/5000		
BH (60°-80°)	385.9	1.1	B1/500		G1/500
BVH (80°-90°)	27.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9
2.5°	4744.3	4709.8	4635.0	4497.0	4439.5	4301.5	4221.0	4065.7	3968.0	3858.7	3737.9
5°	6682.3	6504.0	6394.8	6239.5	5785.2	5503.4	5037.6	4640.8	4456.8	4255.5	3979.5
7.5°	8683.5	8568.5	8419.0	8085.5	7774.9	7188.4	6389.0	5514.9	5141.1	4796.1	4249.8
10°	10339.7	10017.7	10000.4	9753.2	9413.9	8712.3	7751.9	6665.0	5998.0	5491.9	4635.0
12.5°	11495.6	11202.3	11334.6	11305.8	10989.5	10345.5	9235.6	7797.9	7102.1	6314.2	5031.8
15°	12548.0	12427.2	12387.0	12352.5	12225.9	11748.6	10753.8	9178.1	8171.7	7222.9	5480.4
17.5°	13577.4	13266.8	13416.3	13445.1	13433.6	13002.3	12070.7	10489.2	9304.6	8183.2	5952.0
20°	14491.7	14520.5	14319.2	14278.9	14244.4	14227.2	13318.6	11788.9	10696.3	9189.6	6567.3
22.5°	15664.9	15463.6	15641.8	15526.8	15302.6	15164.5	14468.7	12939.0	11903.9	10403.0	7194.1
25°	17050.8	17211.8	16792.0	16746.0	16498.7	16021.4	15394.6	14227.2	13065.5	11530.1	7872.7
27.5°	18758.7	18476.9	18367.7	18114.6	17666.1	17464.8	16728.7	15555.6	14468.7	12714.8	8528.3
30°	20225.1	20150.4	19604.1	19305.0	18914.0	18908.2	17878.9	17355.6	16297.4	14572.2	9431.1
32.5°	21421.3	21093.5	20892.2	20685.2	20368.9	20455.2	19586.8	19310.8	18246.9	16297.4	10495.0
35°	22220.6	21984.8	21864.1	21547.8	21455.8	21841.1	21478.8	21363.8	20489.7	18724.2	11742.9
37.5°	22473.7	22548.4	22525.4	22128.6	22324.1	23365.0	23830.8	23531.8	23071.7	21283.3	13094.3
40°	22697.9	22749.7	22634.7	23100.5	23658.3	24842.9	26527.9	26033.3	25860.8	23876.8	14974.8
42.5°	22824.4	22784.2	22784.2	23589.3	24434.6	26815.4	29132.9	28805.2	28672.9	26637.2	17148.5
45°	22278.1	21887.1	22306.9	23399.5	25101.7	27787.3	31214.7	31669.0	31479.2	29920.8	19690.3
47.5°	20236.6	20478.2	20713.9	22174.6	24290.9	27488.3	32491.3	34038.3	34389.1	32681.1	21358.0
50°	17148.5	17096.8	17585.6	19425.8	21996.4	26200.1	32244.1	34722.6	35360.9	33509.2	21708.8
52.5°	12473.2	12852.8	13381.8	15210.5	18258.4	22864.7	29052.4	32957.1	33808.2	32491.3	21478.8
55°	7263.1	6843.3	8033.7	9580.6	12456.0	17246.3	24561.2	29213.5	30789.1	30639.6	20317.2
57.5°	2909.8	2817.8	3226.1	4347.5	6498.3	10690.5	17861.6	24003.3	26527.9	28063.3	17855.9
60°	1276.7	1247.9	1466.4	1771.2	2656.8	4928.3	9770.4	14928.8	17562.6	19609.8	12289.2
62.5°	920.1	908.6	1017.9	1127.1	1403.2	2145.0	4106.0	6015.2	7498.9	9057.3	5503.4
65°	741.8	770.6	845.3	902.9	1035.1	1190.4	1449.2	1673.4	2053.0	2127.8	1213.4
67.5°	603.8	626.8	695.8	759.1	782.1	644.1	667.1	586.6	586.6	523.3	419.8
70°	442.8	448.6	529.1	603.8	483.1	258.8	454.3	454.3	408.3	391.0	356.5
72.5°	327.8	333.5	396.8	373.8	189.8	161.0	333.5	368.0	333.5	316.3	287.5
75°	241.5	247.3	207.0	86.3	80.5	103.5	195.5	253.0	241.5	235.8	218.5
77.5°	46.0	34.5	28.8	40.3	57.5	86.3	126.5	155.3	161.0	172.5	161.0
80°	5.8	5.8	17.3	34.5	63.3	92.0	132.3	149.5	155.3	161.0	149.5
82.5°	0.0	5.8	17.3	34.5	63.3	86.3	115.0	132.3	143.8	149.5	143.8
85°	0.0	5.8	11.5	28.8	51.8	63.3	57.5	40.3	34.5	40.3	28.8
87.5°	0.0	0.0	5.8	5.8	11.5	11.5	11.5	11.5	11.5	11.5	11.5
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°	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9	3622.9
2.5°	3668.9	3645.9	3565.4	3479.2	3404.4	3438.9	3404.4	3375.6	3387.2	3375.6	3364.1
5°	3870.2	3766.7	3594.2	3519.4	3456.2	3450.4	3433.2	3427.4	3433.2	3433.2	3381.4
7.5°	4060.0	3893.2	3709.2	3628.7	3553.9	3559.7	3519.4	3519.4	3513.7	3484.9	3473.4
10°	4347.5	4123.2	3887.5	3743.7	3651.7	3634.4	3594.2	3553.9	3553.9	3553.9	3496.4
12.5°	4663.8	4382.0	4060.0	3893.2	3783.9	3697.7	3634.4	3622.9	3559.7	3548.2	3519.4
15°	4939.8	4583.3	4175.0	3945.0	3807.0	3691.9	3594.2	3530.9	3502.2	3484.9	3461.9
17.5°	5210.1	4755.8	4238.3	3945.0	3795.4	3663.2	3559.7	3502.2	3433.2	3444.7	3398.7
20°	5572.4	4939.8	4255.5	3870.2	3686.2	3559.7	3421.7	3392.9	3352.6	3318.1	3329.6
22.5°	5923.2	5072.1	4203.7	3778.2	3513.7	3364.1	3295.1	3260.6	3243.4	3214.6	3174.4
25°	6239.5	5215.9	4123.2	3611.4	3329.6	3220.4	3157.1	3151.4	3111.1	3111.1	3036.4
27.5°	6561.5	5267.6	3985.2	3415.9	3168.6	3105.4	3076.6	3065.1	3047.9	3007.6	2955.8
30°	6929.6	5284.9	3783.9	3214.6	3024.9	2955.8	2996.1	3024.9	2950.1	2875.3	2898.3
32.5°	7234.4	5244.6	3542.4	3024.9	2921.3	2886.8	2967.4	2996.1	2909.8	2829.3	2789.1
35°	7602.4	5146.9	3306.6	2875.3	2817.8	2886.8	2955.8	2955.8	2783.3	2685.6	2662.6
37.5°	8160.2	5037.6	3088.1	2748.8	2708.6	2852.3	2944.3	2881.1	2610.8	2490.0	2461.3
40°	8758.3	4968.6	2875.3	2622.3	2651.1	2794.8	2846.6	2651.1	2375.0	2300.3	2277.3
42.5°	9626.6	4830.6	2685.6	2513.0	2599.3	2714.3	2714.3	2363.5	2260.0	2219.8	2214.0
45°	10707.8	4732.8	2518.8	2421.0	2524.5	2553.3	2461.3	2214.0	2139.3	2127.8	2133.5
47.5°	11236.8	4543.0	2346.3	2311.8	2386.5	2392.3	2150.8	2093.2	2030.0	2012.7	2001.2
50°	11156.3	4203.7	2122.0	2168.0	2271.5	2214.0	1961.0	1972.5	1915.0	1909.2	1880.5
52.5°	10592.8	3668.9	1897.7	2007.0	2122.0	1955.2	1805.7	1794.2	1794.2	1719.5	1690.7
55°	9390.9	2955.8	1627.4	1765.5	1903.5	1644.7	1604.4	1592.9	1564.2	1495.2	1477.9
57.5°	7435.6	2168.0	1224.9	1374.4	1615.9	1397.4	1391.7	1339.9	1265.1	1213.4	1213.4
60°	4422.3	1247.9	770.6	839.6	1069.6	1132.9	1259.4	1236.4	1109.9	1029.4	1006.4
62.5°	2018.5	644.1	488.8	500.3	575.1	736.1	989.1	1144.4	966.1	828.1	816.6
65°	678.6	477.3	402.5	385.3	396.8	442.8	592.3	810.8	770.6	638.3	615.3
67.5°	414.0	425.6	379.5	350.8	350.8	345.0	339.3	368.0	454.3	442.8	448.6
70°	356.5	391.0	350.8	316.3	304.8	287.5	241.5	201.3	172.5	201.3	212.8
72.5°	287.5	310.5	299.0	270.3	241.5	218.5	172.5	132.3	97.8	86.3	86.3
75°	212.8	230.0	241.5	207.0	184.0	155.3	126.5	86.3	51.8	34.5	34.5
77.5°	155.3	172.5	178.3	161.0	138.0	109.3	80.5	57.5	28.8	11.5	11.5
80°	132.3	155.3	172.5	161.0	143.8	103.5	74.8	40.3	23.0	5.8	5.8
82.5°	126.5	155.3	172.5	155.3	138.0	97.8	74.8	46.0	17.3	5.8	5.8
85°	28.8	40.3	51.8	63.3	74.8	74.8	57.5	34.5	17.3	5.8	5.8
87.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	5.8	5.8	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)