

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: P531282

Luminaire Tested: **GALN-SA6C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34969 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

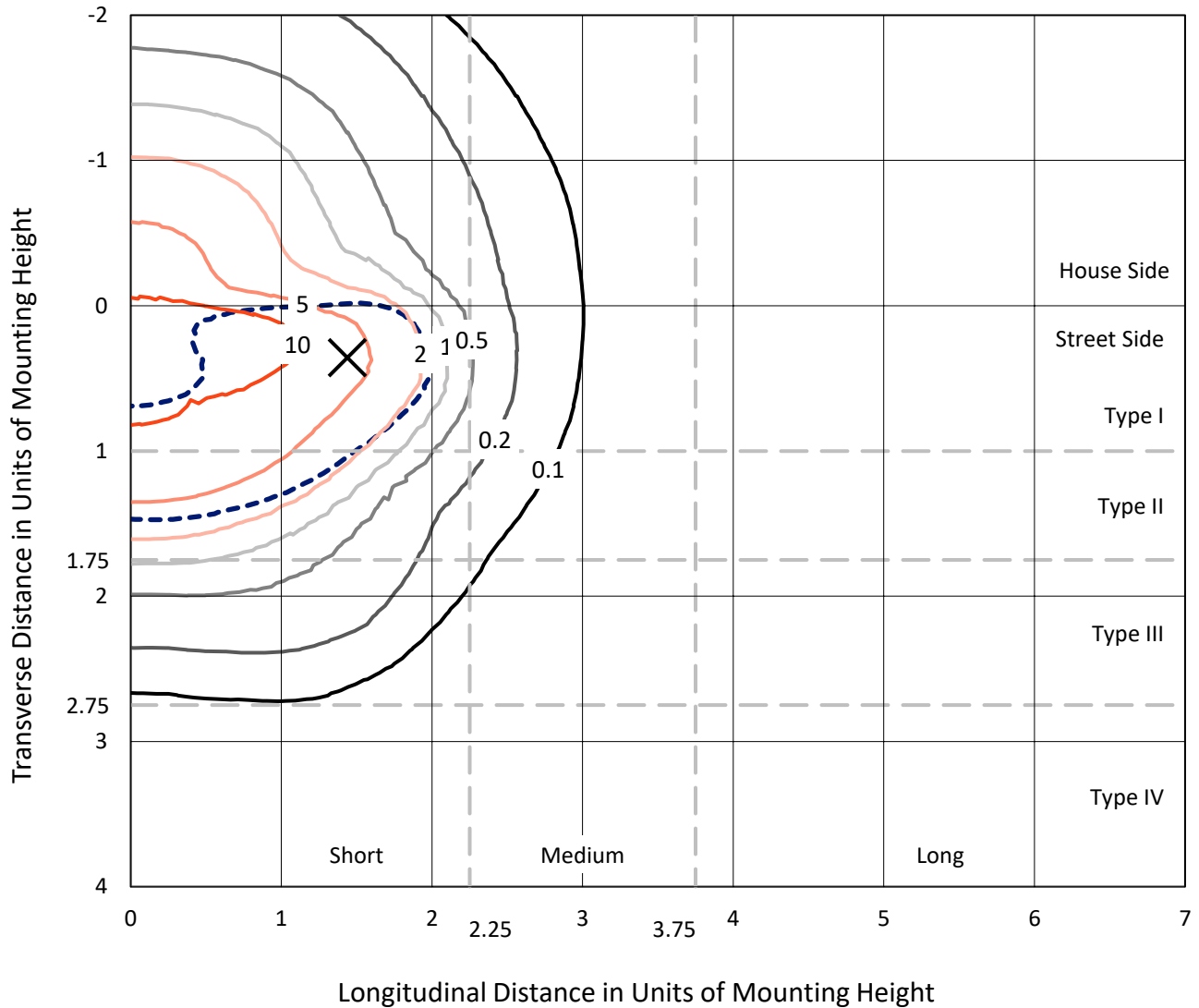
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

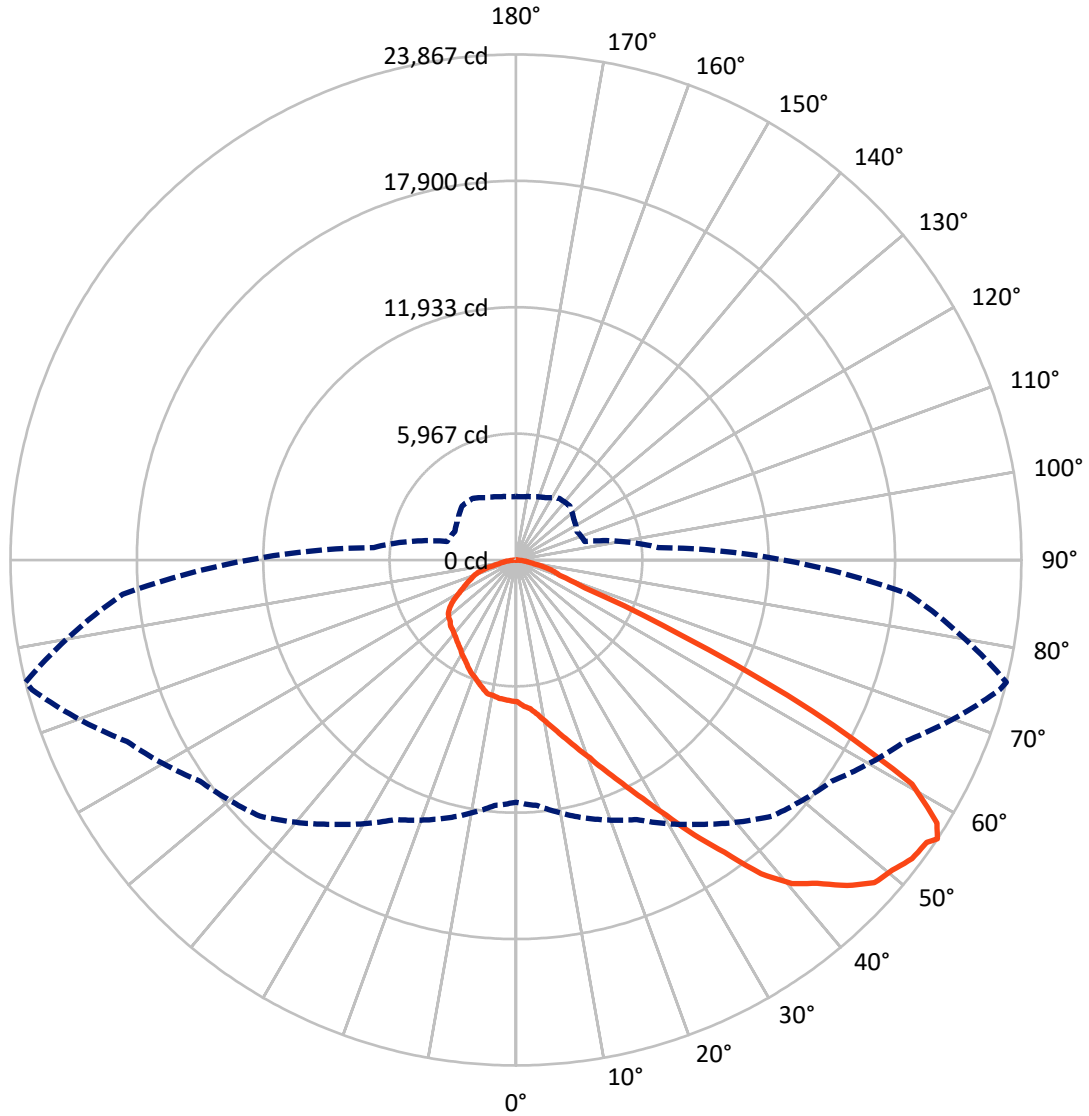
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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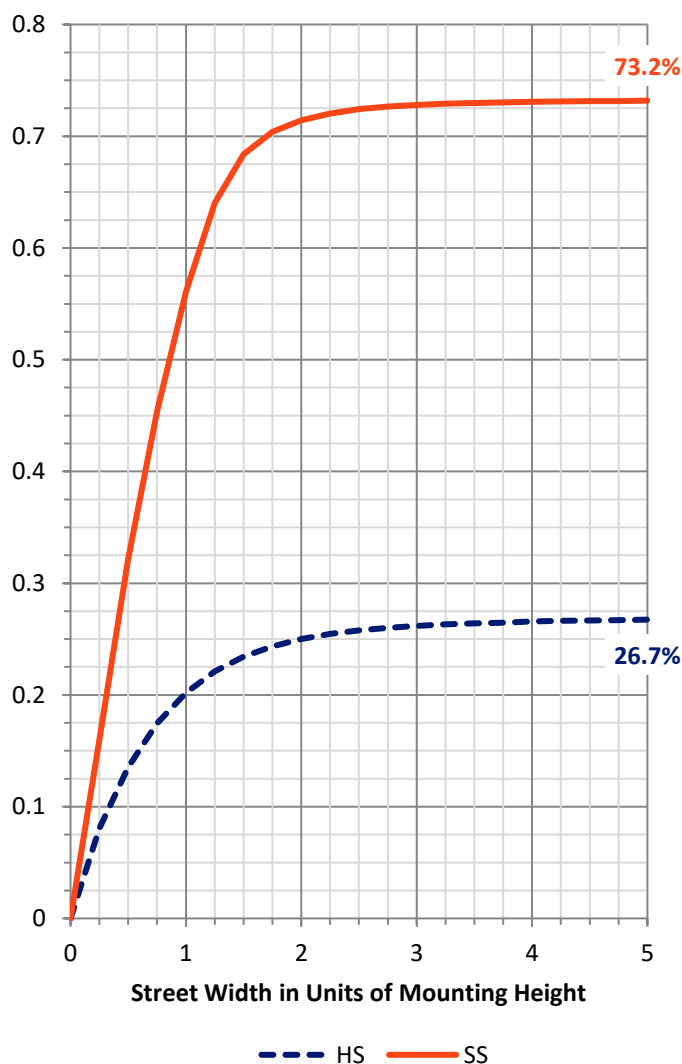
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9402.1	0.0	9402.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	25566.9	0.0	25566.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	34969.0	0.0	34969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.5	1.9
10°-20°	2084.4	6.0
20°-30°	3645.3	10.4
30°-40°	5707.5	16.3
40°-50°	8302.7	23.7
50°-60°	9125.2	26.1
60°-70°	4073.1	11.6
70°-80°	1176.5	3.4
80°-90°	190.8	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°	34969.0	100.0
0°-180°	34969.0	100.0

Coefficient of Utilization



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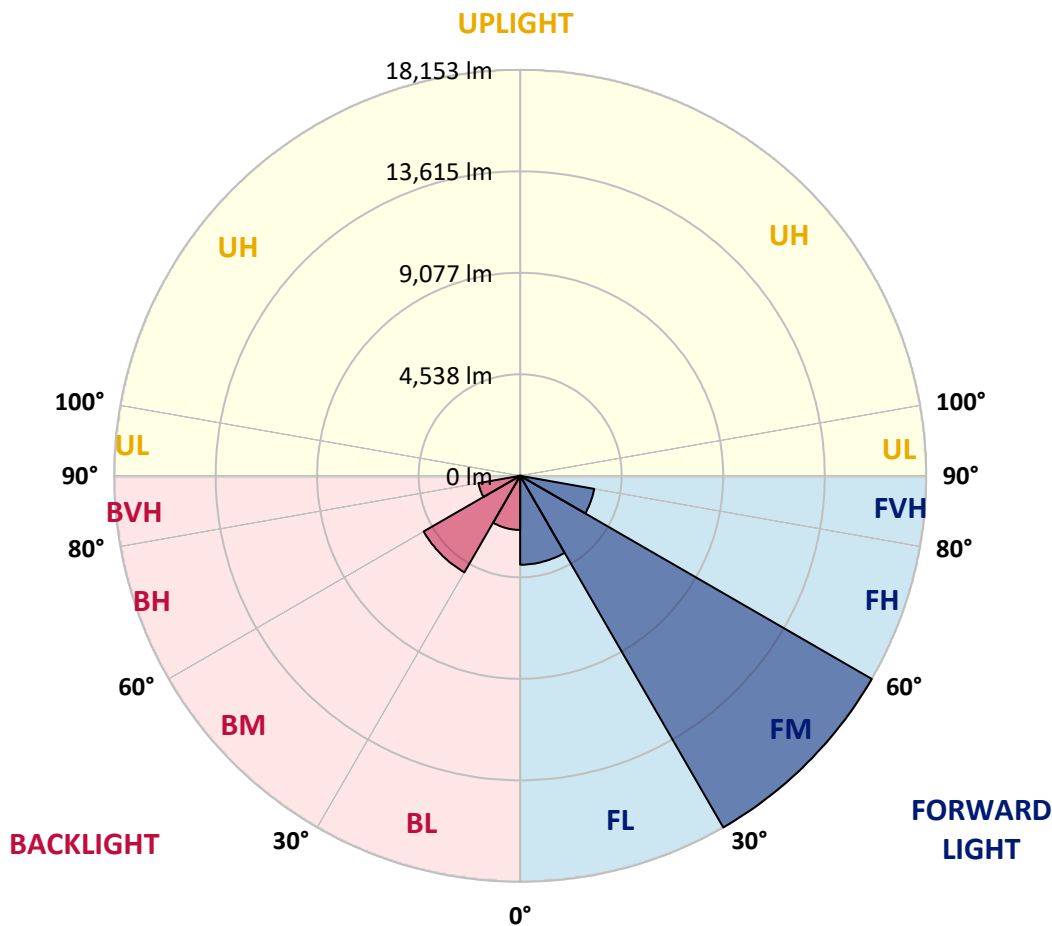
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3973.8	11.4			
FM (30°-60°)	18153.1	51.9			
FH (60°-80°)	3357.9	9.6			G2/5000
FVH (80°-90°)	82.1	0.2			G1/100
BL (0°-30°)	2419.3	6.9	B3/2500		
BM (30°-60°)	4982.4	14.2	B3/5000		
BH (60°-80°)	1891.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	108.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9
2.5°	7370.8	7253.0	7243.9	7212.2	7230.3	7148.7	7062.6	6949.3	6831.4	6903.9	6731.7
5°	7887.6	7729.0	7792.4	7683.6	7697.2	7588.4	7411.6	7280.2	7135.1	7049.0	6926.6
7.5°	8068.9	8082.5	8127.9	8109.7	8019.1	8019.1	7901.2	7670.0	7416.2	7366.3	7162.3
10°	8313.7	8318.3	8268.4	8282.0	8408.9	8350.0	8245.7	8146.0	7819.6	7760.7	7398.0
12.5°	8399.9	8318.3	8399.9	8472.4	8622.0	8703.6	8680.9	8608.4	8259.3	8218.5	7688.2
15°	8413.5	8363.6	8431.6	8594.8	8726.2	9070.8	9243.0	9193.1	8730.8	8735.3	8014.5
17.5°	8350.0	8418.0	8445.2	8585.7	8889.4	9211.3	9709.9	9777.9	9397.1	9338.2	8427.0
20°	8436.1	8386.3	8422.5	8549.4	8952.9	9456.1	10108.8	10557.6	10022.7	9981.9	8853.2
22.5°	8767.0	8699.0	8690.0	8771.6	9061.7	9583.0	10530.4	11337.3	10784.3	10806.9	9383.5
25°	9025.4	9061.7	9030.0	9025.4	9206.7	9773.4	11088.0	12266.6	11817.8	11686.4	10009.1
27.5°	9469.7	9555.8	9492.3	9578.5	9537.7	10059.0	11486.9	13295.6	12933.0	12756.2	10575.7
30°	10086.2	10131.5	10072.6	10072.6	9950.2	10457.9	11849.5	14370.0	14220.4	13980.1	11242.1
32.5°	10897.6	10965.6	10847.7	10779.7	10761.6	11051.7	12502.3	15430.7	15684.6	15480.6	12126.1
35°	11971.9	11931.1	11790.6	11727.2	11482.4	11962.9	13472.4	16650.1	17316.5	16953.8	13195.9
37.5°	12919.4	12855.9	12846.8	12493.2	12552.2	12946.6	14297.4	17574.9	18898.5	18794.3	14324.6
40°	13803.3	13862.2	13957.4	13758.0	13667.3	14102.5	15258.4	18282.0	20127.0	20086.2	15195.0
42.5°	14750.7	14696.3	14864.1	14696.3	14560.3	15176.8	16301.1	18771.6	21205.9	20870.4	16106.1
45°	16124.3	15952.0	16010.9	16024.5	15924.8	16151.5	16731.7	19125.2	21962.9	21926.6	16772.5
47.5°	17271.1	17275.7	17176.0	17098.9	16795.2	17021.8	17212.2	19347.3	22833.3	22774.3	17030.9
50°	17697.3	17638.3	17928.4	18096.2	18114.3	17651.9	17588.5	19469.7	23291.1	23032.7	17289.3
52.5°	16165.1	16219.5	16677.3	17674.6	18250.3	18300.2	18028.2	19723.6	23477.0	23422.6	17497.8
55°	13010.0	13272.9	14025.4	15176.8	16541.3	18041.8	18504.2	19986.5	23576.7	23531.4	18422.6
56°	11437.0	11641.0	12620.2	13522.3	15235.8	17103.4	18205.0	20267.5	23653.8	23866.8	18640.1
57.5°	9206.7	9442.5	10145.1	11169.6	13191.3	15317.4	17379.9	19923.0	23354.6	23436.2	18798.8
60°	5757.0	5779.7	6622.9	7298.3	8721.7	10797.9	13263.9	17334.6	21613.9	21496.0	16885.8
62.5°	3776.1	3780.6	4546.7	5099.7	5748.0	6224.0	7806.0	11496.0	15947.5	15739.0	12021.8
65°	2651.9	2710.8	3304.6	4043.5	4306.5	4057.1	4007.3	6060.8	8907.6	8608.4	6459.7
67.5°	1940.2	1944.7	2470.5	3263.8	3644.6	3087.0	2506.8	2960.1	3526.8	3517.7	2991.9
70°	1282.9	1337.3	1740.7	2438.8	2874.0	2479.6	2049.0	2117.0	2243.9	2243.9	2225.8
72.5°	748.0	797.8	1065.3	1545.8	1613.8	1550.3	1622.9	1813.2	1894.8	1890.3	1867.6
75°	426.1	448.8	507.7	643.7	802.4	947.4	1192.2	1373.5	1455.1	1505.0	1446.1
77.5°	249.3	262.9	299.2	367.2	417.0	512.2	648.2	775.2	884.0	870.4	879.4
80°	131.5	131.5	167.7	217.6	290.1	362.6	430.6	503.2	562.1	575.7	589.3
82.5°	77.1	81.6	108.8	158.7	208.5	258.4	330.9	380.8	435.2	439.7	448.8
85°	40.8	45.3	68.0	104.3	140.5	158.7	163.2	154.1	167.7	158.7	181.3
87.5°	13.6	13.6	22.7	18.1	18.1	22.7	27.2	27.2	36.3	36.3	36.3
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°	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9	6690.9
2.5°	6727.1	6727.1	6650.1	6505.0	6482.3	6423.4	6369.0	6364.5	6323.7	6287.4	6269.3
5°	6854.1	6713.5	6600.2	6468.7	6314.6	6242.1	6160.5	6069.8	6033.6	6069.8	6065.3
7.5°	6999.1	6881.3	6541.3	6296.5	6119.7	6047.2	5956.5	5861.3	5870.4	5870.4	5806.9
10°	7139.6	6981.0	6437.0	6124.2	5865.8	5811.4	5761.6	5797.8	5843.2	5852.2	5811.4
12.5°	7375.4	7017.3	6387.2	5952.0	5788.8	5670.9	5702.7	5802.4	5897.6	5870.4	5902.1
15°	7552.2	7049.0	6160.5	5775.2	5571.2	5625.6	5738.9	5806.9	5965.6	5947.4	5979.2
17.5°	7724.4	7067.1	5938.4	5539.5	5453.3	5602.9	5689.1	5884.0	5933.8	6042.6	6083.4
20°	8078.0	7103.4	5711.7	5394.4	5367.2	5539.5	5689.1	5779.7	5888.5	5983.7	5983.7
22.5°	8259.3	7085.2	5562.1	5204.0	5290.1	5398.9	5534.9	5689.1	5689.1	5779.7	5784.2
25°	8486.0	7012.7	5326.4	5113.3	5176.8	5281.1	5435.2	5380.8	5439.7	5439.7	5512.3
27.5°	8744.4	6858.6	5122.4	4950.2	5077.1	5190.4	5213.1	5176.8	5108.8	5099.7	5072.5
30°	8952.9	6668.2	4972.8	4895.8	5000.0	5063.5	4991.0	4913.9	4796.0	4787.0	4723.5
32.5°	9238.5	6432.5	4787.0	4759.8	4877.6	4882.2	4859.5	4741.6	4569.4	4496.8	4424.3
35°	9719.0	6296.5	4646.4	4687.2	4723.5	4709.9	4669.1	4542.2	4369.9	4338.2	4311.0
37.5°	10072.6	6196.8	4501.4	4551.2	4583.0	4601.1	4478.7	4338.2	4342.7	4279.3	4261.1
40°	10471.5	6133.3	4383.5	4406.2	4410.7	4469.6	4320.1	4252.1	4283.8	4243.0	4270.2
42.5°	10983.7	6151.4	4261.1	4243.0	4329.1	4306.5	4233.9	4143.3	4161.4	4039.0	4057.1
45°	11255.7	6273.8	4188.6	4107.0	4202.2	4197.7	4102.5	4016.3	3907.5	3671.8	3680.9
47.5°	11437.0	6305.6	4016.3	3961.9	4061.7	4120.6	4011.8	3812.3	3658.2	3490.5	3449.7
50°	11622.9	6364.5	3934.7	3821.4	3862.2	4002.7	3866.7	3676.4	3526.8	3377.2	3399.8
52.5°	11786.1	6477.8	3776.1	3608.4	3680.9	3835.0	3762.5	3531.3	3368.1	3245.7	3209.4
55°	12511.4	6731.7	3508.6	3291.0	3463.3	3658.2	3617.4	3336.4	3159.6	3096.1	3087.0
56°	12624.7	6740.7	3368.1	3182.2	3340.9	3599.3	3549.4	3250.2	3091.6	2991.9	2996.4
57.5°	12642.8	6631.9	3168.6	3082.5	3218.5	3513.2	3449.7	3182.2	2964.7	2874.0	2846.8
60°	11124.2	5176.8	2919.3	2864.9	3023.6	3250.2	3227.6	2996.4	2751.6	2647.3	2697.2
62.5°	7583.9	3794.2	2724.4	2715.3	2796.9	3019.1	2960.1	2751.6	2547.6	2479.6	2447.9
65°	4415.2	2878.5	2534.0	2497.7	2565.7	2683.6	2724.4	2506.8	2293.8	2248.4	2234.8
67.5°	2606.5	2379.9	2289.2	2230.3	2207.6	2280.2	2311.9	2185.0	1971.9	1908.4	1962.8
70°	2180.4	2117.0	2121.5	2021.8	1967.4	1917.5	1890.3	1777.0	1600.2	1518.6	1495.9
72.5°	1881.2	1854.0	1835.9	1745.2	1695.4	1582.1	1464.2	1350.9	1219.4	1151.4	1155.9
75°	1437.0	1427.9	1437.0	1391.7	1305.5	1214.9	1106.1	961.0	861.3	775.2	793.3
77.5°	856.8	884.0	897.6	879.4	843.2	761.6	693.6	598.4	503.2	435.2	426.1
80°	589.3	612.0	634.6	612.0	575.7	516.8	444.2	371.7	303.7	267.5	258.4
82.5°	448.8	471.4	485.0	462.4	417.0	353.6	303.7	253.9	199.5	163.2	154.1
85°	163.2	185.9	181.3	217.6	235.7	226.7	194.9	149.6	113.3	81.6	77.1
87.5°	45.3	40.8	45.3	45.3	45.3	40.8	36.3	36.3	36.3	22.7	18.1
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)