

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: P529644

Luminaire Tested: **GALN-SA4D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529644
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-SA4D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA 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: 25669 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

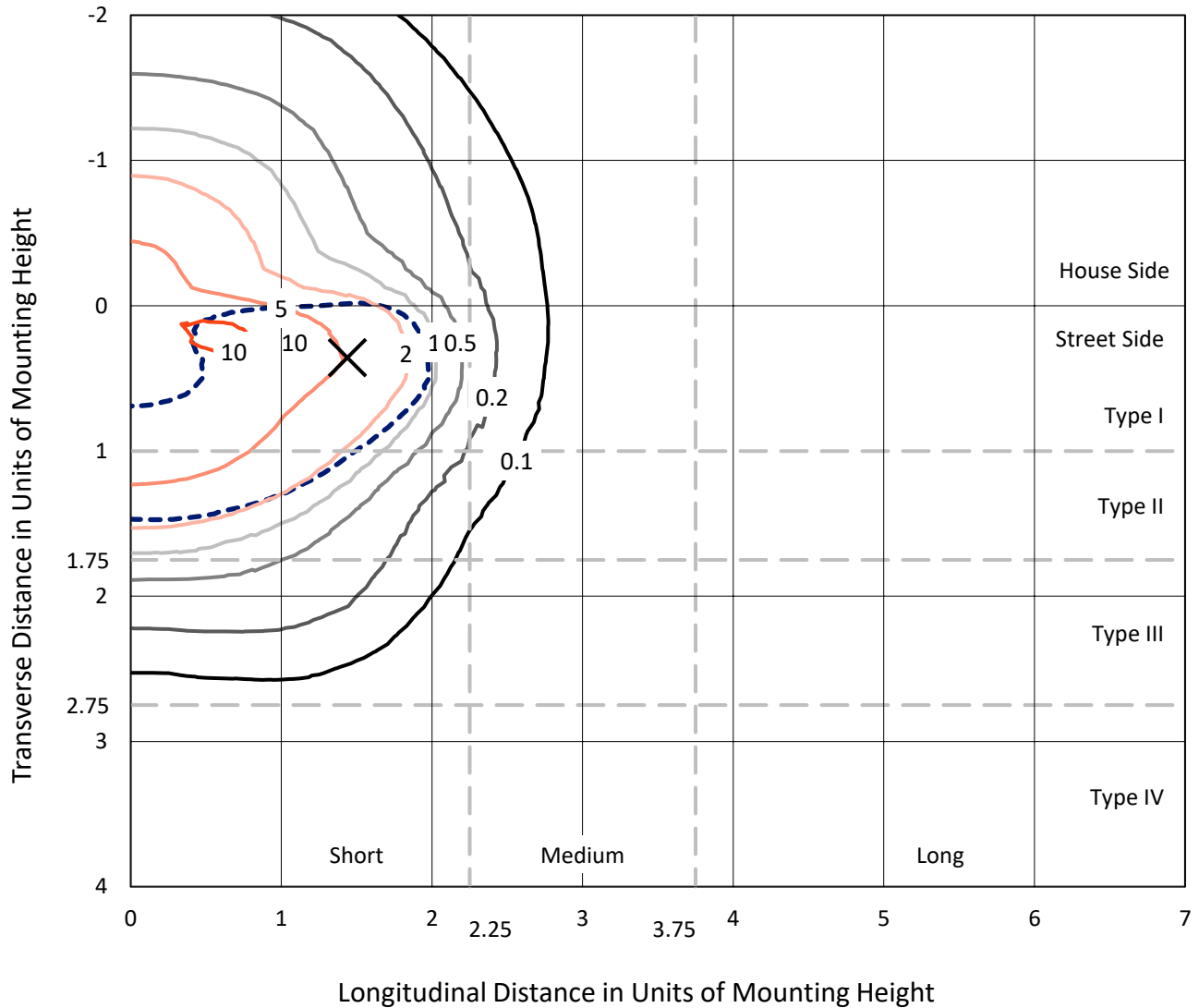
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

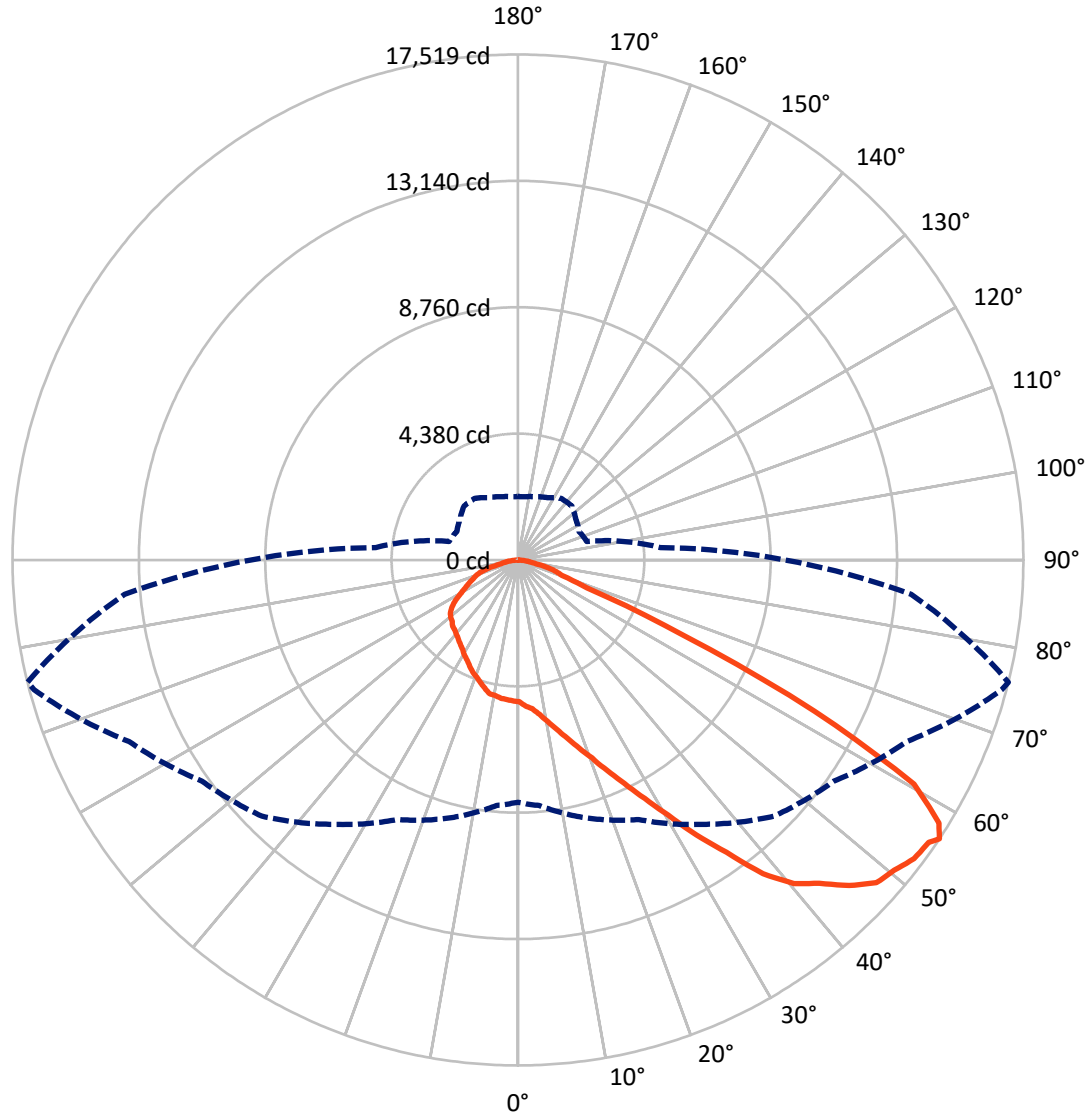
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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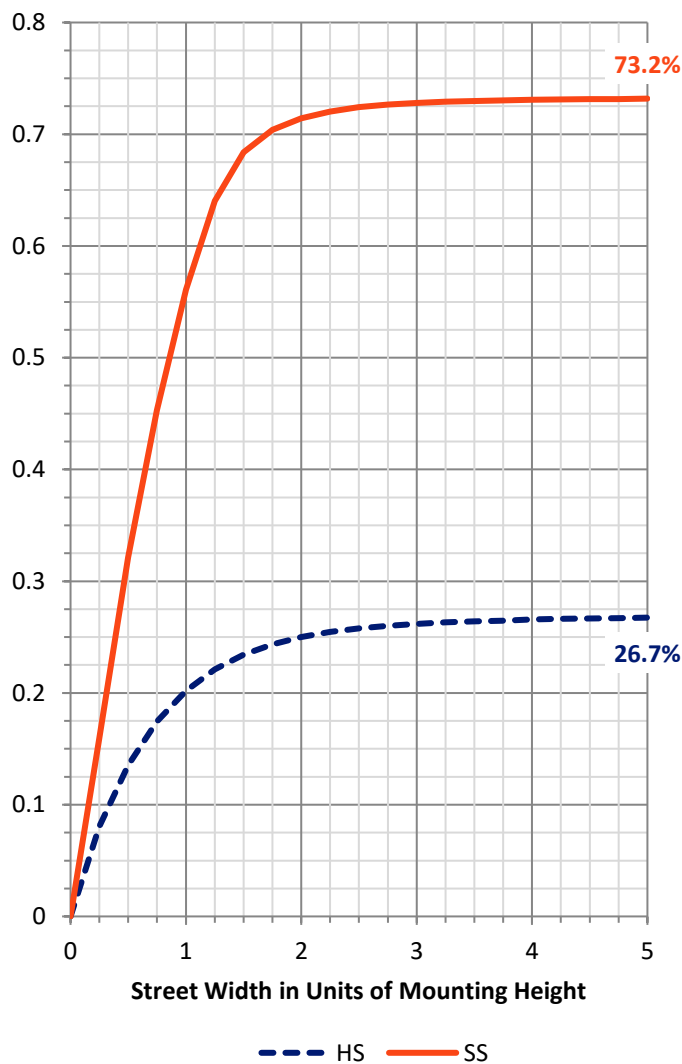
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6901.6	0.0	6901.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18767.4	0.0	18767.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	25669.0	0.0	25669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.1	1.9
10°-20°	1530.0	6.0
20°-30°	2675.8	10.4
30°-40°	4189.6	16.3
40°-50°	6094.6	23.7
50°-60°	6698.4	26.1
60°-70°	2989.9	11.6
70°-80°	863.6	3.4
80°-90°	140.1	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°	25669.0	100.0
0°-180°	25669.0	100.0



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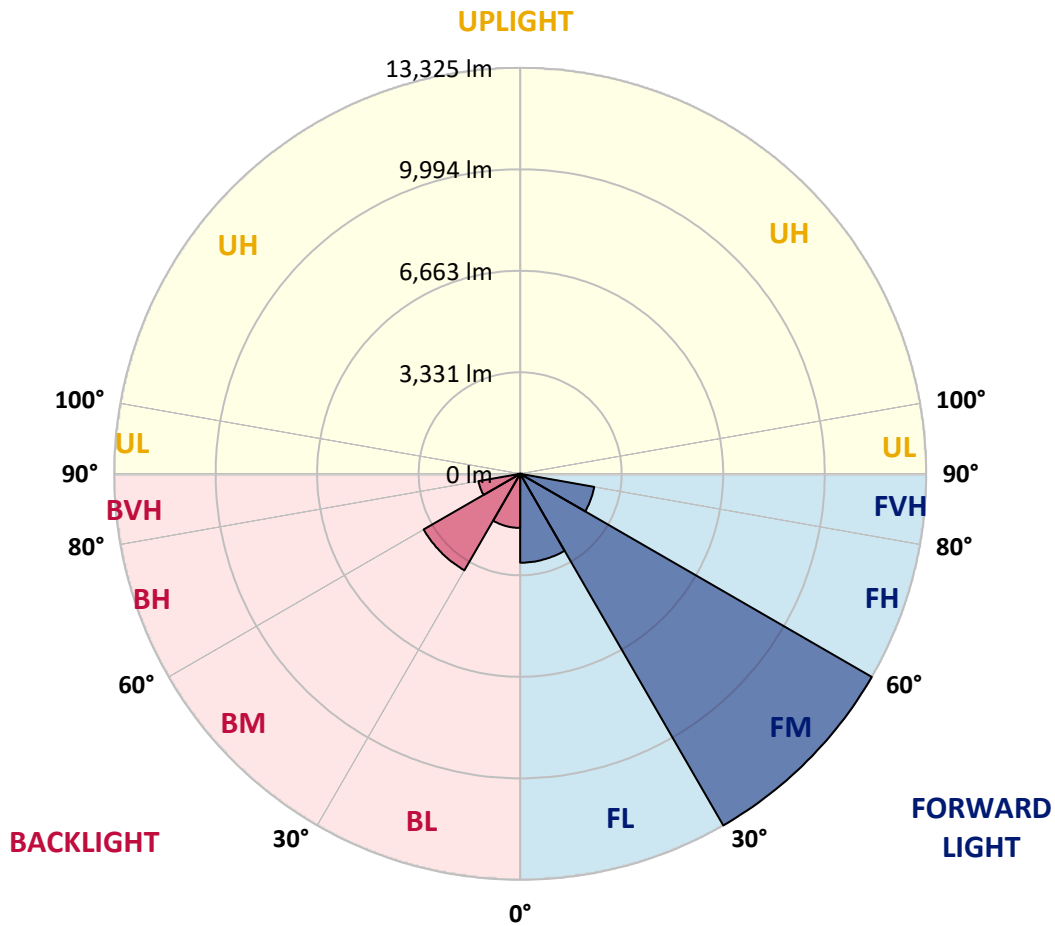
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2917.0	11.4			
FM (30°-60°)	13325.3	51.9			
FH (60°-80°)	2464.8	9.6			G2/5000
FVH (80°-90°)	60.3	0.2			G1/100
BL (0°-30°)	1775.9	6.9	B3/2500		
BM (30°-60°)	3657.3	14.2	B3/5000		
BH (60°-80°)	1388.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	79.8	0.3			G1/100
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°	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4
2.5°	5410.6	5324.0	5317.4	5294.1	5307.4	5247.5	5184.3	5101.1	5014.6	5067.8	4941.4
5°	5789.9	5673.4	5720.0	5640.2	5650.1	5570.3	5440.5	5344.0	5237.5	5174.3	5084.5
7.5°	5923.0	5933.0	5966.3	5953.0	5886.4	5886.4	5799.9	5630.2	5443.8	5407.2	5257.5
10°	6102.7	6106.0	6069.4	6079.4	6172.6	6129.3	6052.8	5979.6	5740.0	5696.7	5430.5
12.5°	6165.9	6106.0	6165.9	6219.2	6329.0	6388.9	6372.2	6319.0	6062.8	6032.8	5643.5
15°	6175.9	6139.3	6189.2	6309.0	6405.5	6658.4	6784.8	6748.2	6408.8	6412.1	5883.1
17.5°	6129.3	6179.2	6199.2	6302.3	6525.3	6761.5	7127.6	7177.5	6898.0	6854.7	6185.9
20°	6192.5	6155.9	6182.5	6275.7	6571.9	6941.2	7420.4	7749.8	7357.2	7327.2	6498.7
22.5°	6435.4	6385.5	6378.9	6438.8	6651.7	7034.4	7729.9	8322.2	7916.2	7932.8	6888.0
25°	6625.1	6651.7	6628.4	6625.1	6758.2	7174.2	8139.1	9004.3	8674.9	8578.4	7347.2
27.5°	6951.2	7014.4	6967.8	7031.1	7001.1	7383.8	8432.0	9759.6	9493.4	9363.7	7763.1
30°	7403.8	7437.0	7393.8	7393.8	7303.9	7676.6	8698.2	10548.3	10438.5	10262.1	8252.3
32.5°	7999.4	8049.3	7962.8	7912.9	7899.6	8112.5	9177.3	11326.9	11513.3	11363.5	8901.1
35°	8788.0	8758.1	8654.9	8608.3	8428.6	8781.4	9889.4	12222.0	12711.2	12445.0	9686.4
37.5°	9483.5	9436.9	9430.2	9170.7	9213.9	9503.4	10495.0	12900.8	13872.5	13795.9	10515.0
40°	10132.3	10175.6	10245.5	10099.1	10032.5	10351.9	11200.5	13419.9	14774.2	14744.3	11153.9
42.5°	10827.8	10787.9	10911.0	10787.9	10688.0	11140.6	11965.8	13779.3	15566.2	15319.9	11822.7
45°	11836.0	11709.6	11752.8	11762.8	11689.6	11856.0	12281.9	14038.8	16121.9	16095.3	12311.9
47.5°	12677.9	12681.2	12608.0	12551.4	12328.5	12494.9	12634.6	14201.9	16760.8	16717.5	12501.5
50°	12990.7	12947.4	13160.4	13283.5	13296.8	12957.4	12910.8	14291.7	17096.8	16907.2	12691.2
52.5°	11866.0	11905.9	12242.0	12974.0	13396.6	13433.2	13233.6	14478.1	17233.3	17193.3	12844.3
55°	9550.0	9743.0	10295.4	11140.6	12142.2	13243.6	13583.0	14671.1	17306.5	17273.2	13523.1
56°	8395.4	8545.1	9263.8	9926.0	11183.8	12554.8	13363.4	14877.4	17363.0	17519.4	13682.8
57.5°	6758.2	6931.2	7447.0	8199.0	9683.1	11243.7	12757.7	14624.5	17143.4	17203.3	13799.3
60°	4226.0	4242.6	4861.5	5357.3	6402.2	7926.2	9736.4	12724.5	15865.7	15779.1	12395.0
62.5°	2771.8	2775.2	3337.5	3743.5	4219.3	4568.7	5730.0	8438.6	11706.2	11553.2	8824.6
65°	1946.6	1989.9	2425.8	2968.2	3161.2	2978.1	2941.5	4448.9	6538.6	6319.0	4741.7
67.5°	1424.2	1427.5	1813.5	2395.8	2675.3	2266.0	1840.1	2172.9	2588.8	2582.2	2196.2
70°	941.7	981.6	1277.8	1790.2	2109.7	1820.2	1504.0	1554.0	1647.1	1647.1	1633.8
72.5°	549.0	585.6	782.0	1134.7	1184.6	1138.0	1191.3	1331.0	1390.9	1387.6	1370.9
75°	312.8	329.4	372.7	472.5	589.0	695.5	875.1	1008.2	1068.1	1104.7	1061.5
77.5°	183.0	193.0	219.6	269.5	306.1	376.0	475.8	569.0	648.9	638.9	645.5
80°	96.5	96.5	123.1	159.7	213.0	266.2	316.1	369.4	412.6	422.6	432.6
82.5°	56.6	59.9	79.9	116.5	153.1	189.7	242.9	279.5	319.4	322.8	329.4
85°	29.9	33.3	49.9	76.5	103.2	116.5	119.8	113.1	123.1	116.5	133.1
87.5°	10.0	10.0	16.6	13.3	13.3	16.6	20.0	20.0	26.6	26.6	26.6
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°	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4	4911.4
2.5°	4938.1	4938.1	4881.5	4775.0	4758.4	4715.1	4675.2	4671.9	4641.9	4615.3	4602.0
5°	5031.2	4928.1	4844.9	4748.4	4635.2	4582.0	4522.1	4455.6	4428.9	4455.6	4452.2
7.5°	5137.7	5051.2	4801.6	4621.9	4492.2	4438.9	4372.4	4302.5	4309.2	4309.2	4262.6
10°	5240.9	5124.4	4725.1	4495.5	4305.8	4265.9	4229.3	4255.9	4289.2	4295.8	4265.9
12.5°	5413.9	5151.0	4688.5	4369.0	4249.3	4162.7	4186.0	4259.2	4329.1	4309.2	4332.4
15°	5543.7	5174.3	4522.1	4239.3	4089.5	4129.5	4212.7	4262.6	4379.0	4365.7	4389.0
17.5°	5670.1	5187.6	4359.1	4066.2	4003.0	4112.8	4176.0	4319.1	4355.7	4435.6	4465.5
20°	5929.7	5214.2	4192.7	3959.8	3939.8	4066.2	4176.0	4242.6	4322.5	4392.3	4392.3
22.5°	6062.8	5200.9	4082.9	3820.0	3883.2	3963.1	4062.9	4176.0	4176.0	4242.6	4245.9
25°	6229.1	5147.7	3909.8	3753.5	3800.0	3876.6	3989.7	3949.8	3993.0	3993.0	4046.3
27.5°	6418.8	5034.6	3760.1	3633.7	3726.8	3810.0	3826.7	3800.0	3750.1	3743.5	3723.5
30°	6571.9	4894.8	3650.3	3593.7	3670.3	3716.9	3663.6	3607.0	3520.5	3513.9	3467.3
32.5°	6781.5	4721.8	3513.9	3493.9	3580.4	3583.7	3567.1	3480.6	3354.1	3300.9	3247.7
35°	7134.2	4621.9	3410.7	3440.7	3467.3	3457.3	3427.4	3334.2	3207.7	3184.4	3164.5
37.5°	7393.8	4548.7	3304.2	3340.8	3364.1	3377.4	3287.6	3184.4	3187.8	3141.2	3127.9
40°	7686.6	4502.1	3217.7	3234.4	3237.7	3280.9	3171.1	3121.2	3144.5	3114.6	3134.5
42.5°	8062.6	4515.5	3127.9	3114.6	3177.8	3161.2	3107.9	3041.4	3054.7	2964.8	2978.1
45°	8262.3	4605.3	3074.6	3014.7	3084.6	3081.3	3011.4	2948.2	2868.3	2695.3	2702.0
47.5°	8395.4	4628.6	2948.2	2908.3	2981.5	3024.7	2944.9	2798.5	2685.3	2562.2	2532.2
50°	8531.8	4671.9	2888.3	2805.1	2835.1	2938.2	2838.4	2698.6	2588.8	2479.0	2495.6
52.5°	8651.6	4755.0	2771.8	2648.7	2702.0	2815.1	2761.8	2592.1	2472.4	2382.5	2355.9
55°	9184.0	4941.4	2575.5	2415.8	2542.2	2685.3	2655.4	2449.1	2319.3	2272.7	2266.0
56°	9267.2	4948.0	2472.4	2335.9	2452.4	2642.1	2605.5	2385.8	2269.4	2196.2	2199.5
57.5°	9280.5	4868.2	2325.9	2262.7	2362.5	2578.8	2532.2	2335.9	2176.2	2109.7	2089.7
60°	8165.8	3800.0	2142.9	2103.0	2219.5	2385.8	2369.2	2199.5	2019.8	1943.3	1979.9
62.5°	5567.0	2785.1	1999.8	1993.2	2053.1	2216.1	2172.9	2019.8	1870.1	1820.2	1796.9
65°	3241.0	2113.0	1860.1	1833.5	1883.4	1969.9	1999.8	1840.1	1683.7	1650.5	1640.5
67.5°	1913.3	1747.0	1680.4	1637.1	1620.5	1673.7	1697.0	1603.9	1447.5	1400.9	1440.8
70°	1600.5	1554.0	1557.3	1484.1	1444.1	1407.5	1387.6	1304.4	1174.6	1114.7	1098.1
72.5°	1380.9	1361.0	1347.6	1281.1	1244.5	1161.3	1074.8	991.6	895.1	845.2	848.5
75°	1054.8	1048.2	1054.8	1021.6	958.3	891.8	811.9	705.4	632.2	569.0	582.3
77.5°	628.9	648.9	658.9	645.5	618.9	559.0	509.1	439.2	369.4	319.4	312.8
80°	432.6	449.2	465.9	449.2	422.6	379.3	326.1	272.9	222.9	196.3	189.7
82.5°	329.4	346.1	356.0	339.4	306.1	259.5	222.9	186.3	146.4	119.8	113.1
85°	119.8	136.4	133.1	159.7	173.0	166.4	143.1	109.8	83.2	59.9	56.6
87.5°	33.3	29.9	33.3	33.3	33.3	29.9	26.6	26.6	26.6	16.6	13.3
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)