

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: P531470

Luminaire Tested: **GALN-SA6D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36469 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

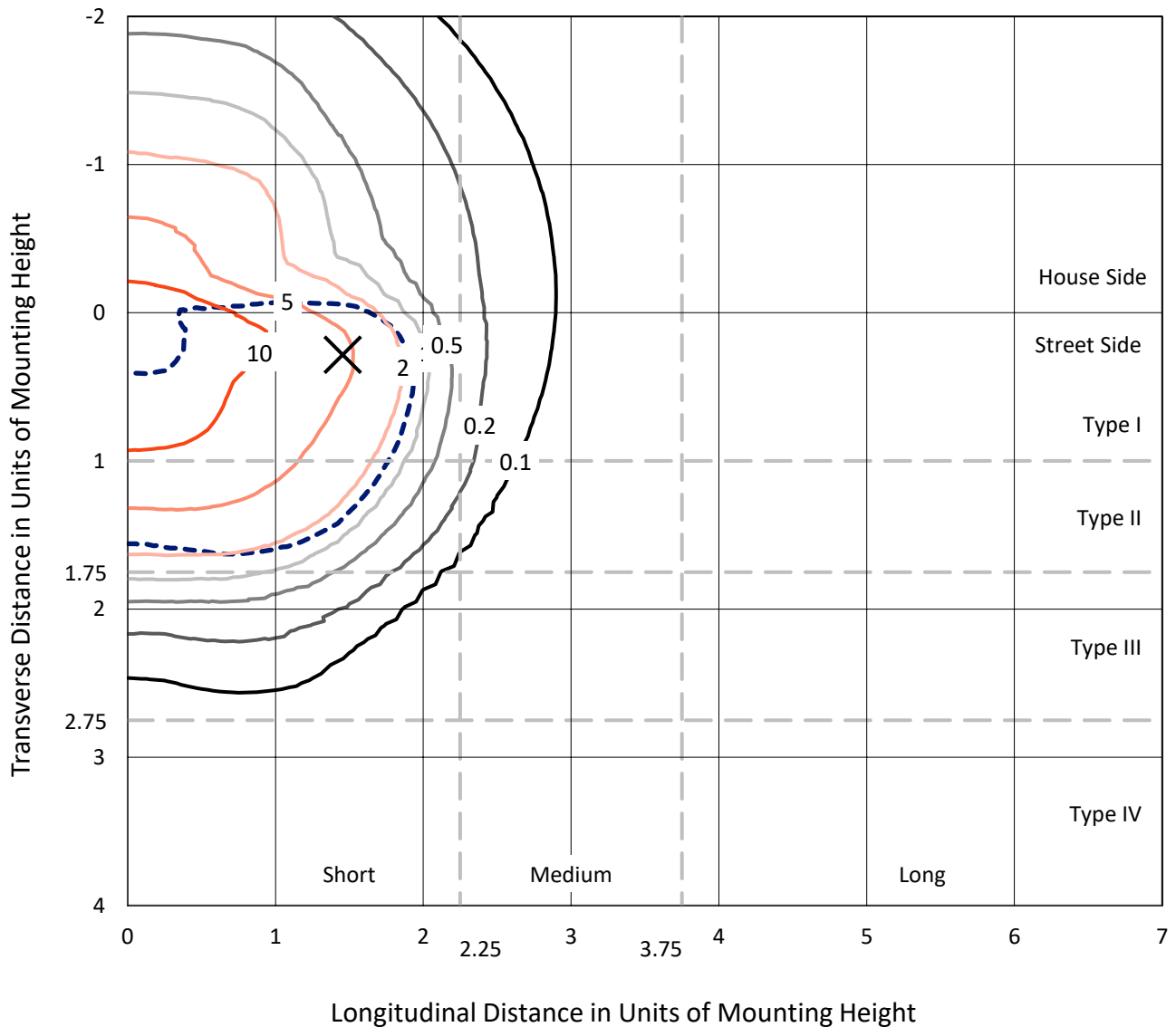
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

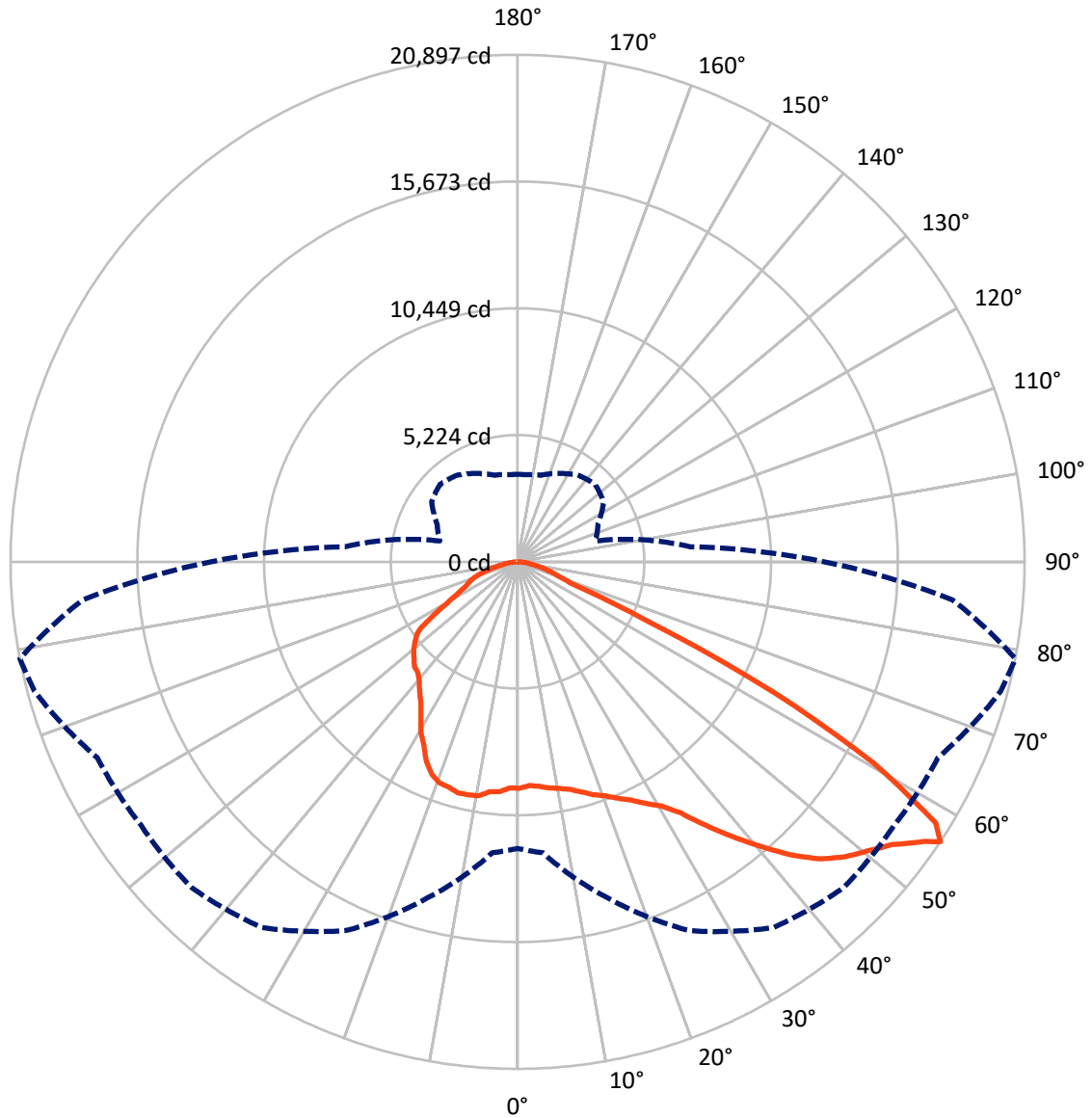
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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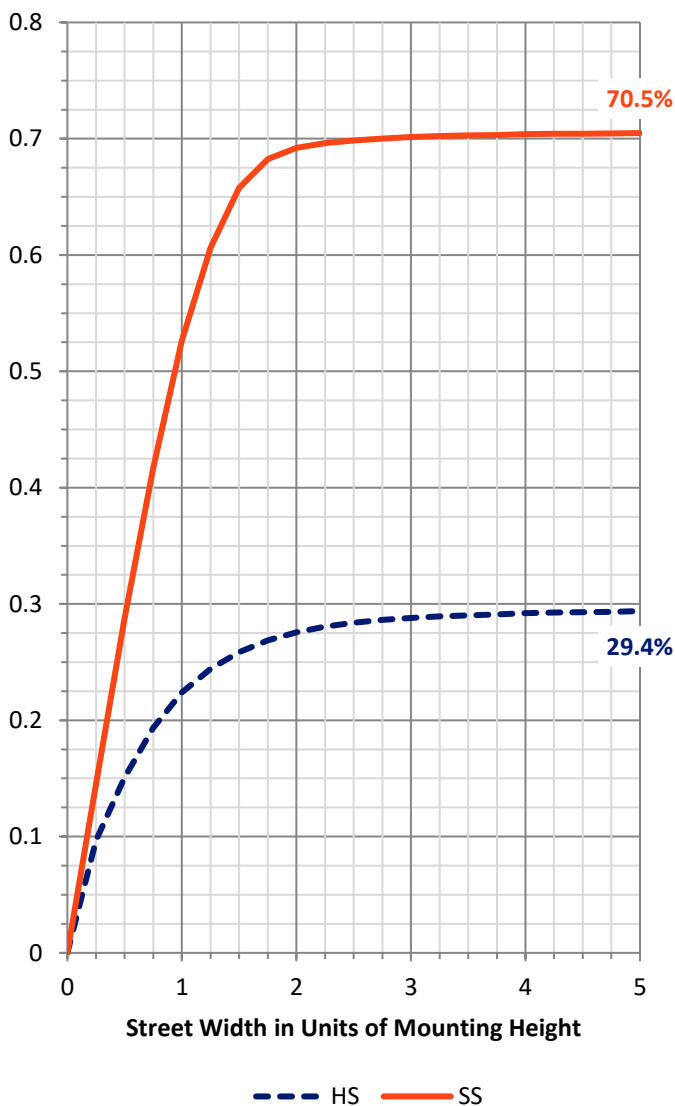
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10770.1	0.0	10770.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25698.9	0.0	25698.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	36469.0	0.0	36469.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.4	2.3
10°-20°	2321.7	6.4
20°-30°	3972.0	10.9
30°-40°	6087.6	16.7
40°-50°	8227.4	22.6
50°-60°	9449.5	25.9
60°-70°	4307.3	11.8
70°-80°	1062.0	2.9
80°-90°	193.0	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°	36469.0	100.0
0°-180°	36469.0	100.0



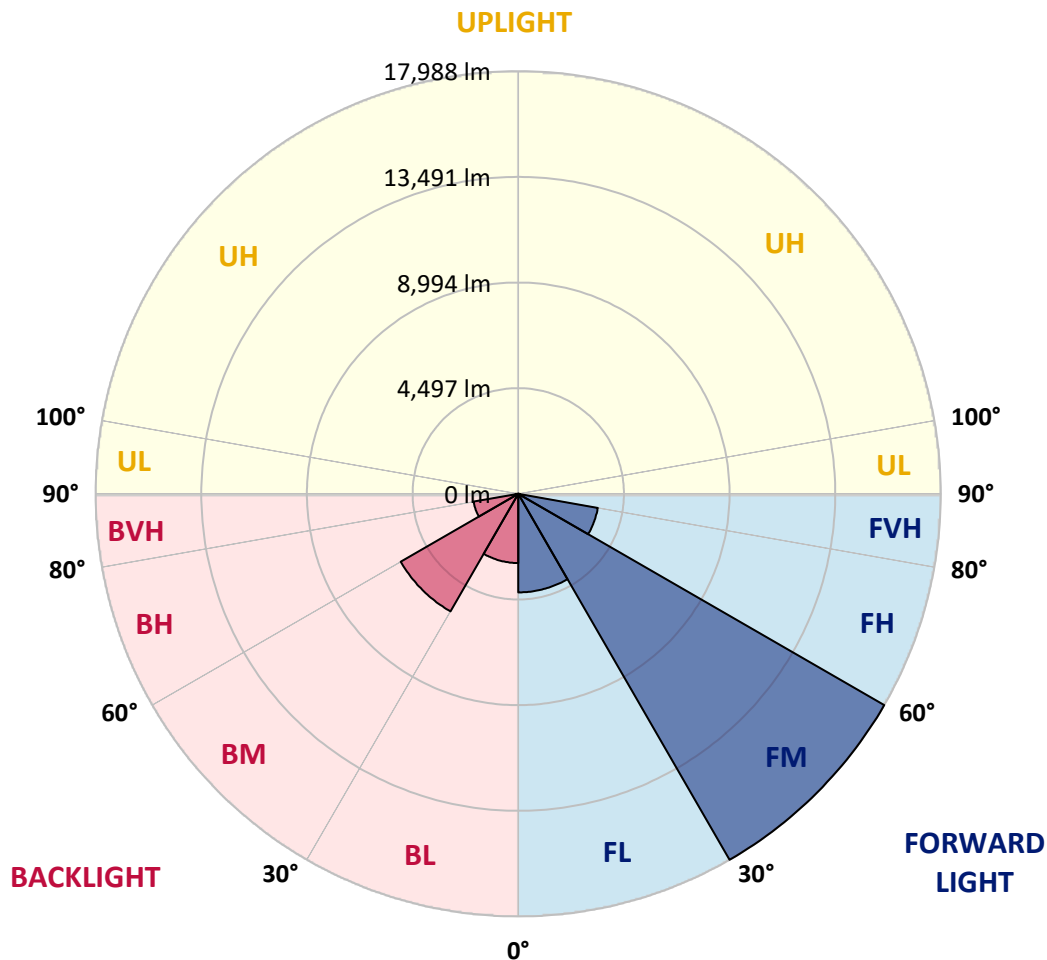
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4196.1	11.5			
FM (30°-60°)	17987.6	49.3			
FH (60°-80°)	3438.2	9.4			G2/5000
FVH (80°-90°)	77.1	0.2			G1/100
BL (0°-30°)	2946.1	8.1	B4/5000		
BM (30°-60°)	5776.9	15.8	B4/8500		
BH (60°-80°)	1931.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.9	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°	55°	65°	75°	79°	85°
0°	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0
2.5°	8876.7	8854.0	8908.5	8949.4	8999.3	9062.9	9094.7	9112.9	9271.9	9231.0	9353.7
5°	8685.9	8626.8	8667.7	8699.5	8785.8	8863.1	8949.4	9085.7	9231.0	9294.6	9444.5
7.5°	8517.8	8486.0	8476.9	8499.6	8617.7	8717.7	8867.6	9067.5	9303.7	9408.2	9494.5
10°	8240.7	8195.3	8263.4	8413.3	8445.1	8654.1	8826.7	9112.9	9317.3	9499.1	9753.5
12.5°	8118.0	8072.6	8086.2	8172.6	8395.1	8595.0	8799.5	9122.0	9553.6	9626.3	9967.0
15°	8313.4	8268.0	8281.6	8258.9	8472.4	8576.9	8899.4	9303.7	9717.1	9839.8	10203.2
17.5°	8758.6	8763.1	8704.1	8654.1	8604.1	8826.7	9049.3	9412.7	9780.7	10089.6	10362.2
20°	9608.1	9458.2	9340.1	9058.4	8981.2	9076.6	9358.2	9708.0	10039.7	10294.1	10603.0
22.5°	10262.3	10275.9	10107.8	9644.4	9476.3	9517.2	9758.0	10044.2	10407.6	10589.3	10943.7
25°	11211.7	11116.3	10934.6	10566.6	10189.6	10221.4	10398.5	10657.5	10757.4	10884.6	11270.8
27.5°	12079.4	12106.6	11747.8	11402.5	10934.6	10843.7	11161.7	11207.2	11039.1	11279.8	11411.6
30°	12960.7	12938.0	12701.8	12297.4	11838.6	11856.8	11997.6	11775.0	11543.3	11675.1	11765.9
32.5°	13873.8	13614.9	13605.8	13242.3	12892.6	12724.5	12551.8	12660.9	12302.0	12329.2	12242.9
35°	14605.2	14641.5	14432.6	14173.6	14001.0	13705.7	13233.3	13428.6	13360.5	13328.7	12956.2
37.5°	15136.7	14995.9	15100.4	15014.1	14850.5	14482.5	13991.9	14178.2	14210.0	14364.4	13932.9
40°	15572.8	15513.8	15790.9	15836.3	15722.7	14927.7	14046.4	14600.7	15077.7	15413.8	14900.5
42.5°	15781.8	15909.0	16199.7	16549.5	16295.1	15445.6	14328.1	14923.2	15986.2	16517.7	15818.1
45°	16063.4	15899.9	16331.5	16972.0	16976.6	15881.7	14600.7	15359.3	16694.9	17467.2	16445.0
47.5°	15777.2	15859.0	16304.2	17117.4	17326.4	16340.6	15336.6	15977.1	17476.3	18162.2	17026.5
50°	15136.7	15300.3	16113.4	16958.4	17589.8	16826.6	16181.6	16644.9	18198.6	18721.0	17121.9
52.5°	14468.9	14559.8	15831.8	17081.0	17708.0	17453.6	17312.7	17567.1	19079.9	19352.5	17240.0
55°	12651.8	13083.4	14900.5	17026.5	18284.9	18584.7	18475.7	18848.2	20079.3	20351.9	17885.1
56°	11811.4	12038.5	14341.7	16772.1	18398.5	18998.1	18943.6	19111.7	20610.8	20897.0	17985.1
57.5°	10257.7	10275.9	12229.3	15645.5	17971.4	19120.8	19066.3	19198.0	20506.3	20311.0	17108.3
60°	6419.0	6700.7	8322.5	12034.0	15282.1	17739.8	18048.7	16990.2	17290.0	16876.6	13310.5
62.5°	3325.4	3284.5	4361.1	7036.8	10144.1	12701.8	12988.0	12938.0	12474.6	11870.4	8695.0
65°	1658.1	1667.2	2280.5	3484.4	5197.0	6650.7	7450.2	7536.6	6305.4	5801.2	4124.9
67.5°	1203.8	1249.3	1640.0	2130.6	2448.6	2739.3	3357.2	3293.6	2494.0	2371.4	2198.7
70°	935.8	976.7	1331.0	1626.3	1476.4	1476.4	1608.2	1662.7	1776.2	1826.2	1885.3
72.5°	681.4	713.2	1017.6	1122.1	967.6	1040.3	1203.8	1331.0	1449.2	1467.3	1535.5
75°	467.9	495.2	667.8	617.8	581.5	717.8	881.3	999.4	1085.7	1131.2	1172.1
77.5°	304.4	313.5	381.6	322.5	372.5	463.4	572.4	672.3	758.7	795.0	804.1
80°	136.3	149.9	163.5	204.4	258.9	331.6	408.9	490.6	545.1	558.8	586.0
82.5°	77.2	77.2	99.9	145.4	190.8	240.8	295.3	354.3	417.9	431.6	427.0
85°	40.9	40.9	59.1	86.3	118.1	140.8	136.3	140.8	149.9	172.6	168.1
87.5°	13.6	13.6	18.2	18.2	22.7	27.3	22.7	31.8	40.9	40.9	40.9
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°	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0
2.5°	9317.3	9358.2	9303.7	9421.8	9421.8	9399.1	9285.5	9321.9	9349.1	9349.1	9371.9
5°	9494.5	9480.9	9517.2	9376.4	9290.1	9258.3	9072.0	8981.2	8903.9	8899.4	8831.3
7.5°	9594.5	9558.1	9544.5	9440.0	9058.4	8826.7	8426.9	8195.3	8145.3	7968.1	8036.3
10°	9753.5	9821.6	9753.5	9185.6	8654.1	8122.6	7731.9	7373.0	7232.2	7118.6	7050.5
12.5°	10080.5	10048.7	9653.5	8885.8	8140.8	7509.3	6927.8	6550.8	6409.9	6310.0	6300.9
15°	10357.7	10198.7	9594.5	8413.3	7341.2	6668.9	6191.9	5923.9	5860.3	5869.3	5910.2
17.5°	10453.1	10344.0	9285.5	7922.7	6746.1	5955.7	5733.1	5692.2	5751.2	5819.4	5837.5
20°	10603.0	10430.3	9158.3	7254.9	6010.2	5510.5	5496.8	5642.2	5751.2	5851.2	5864.8
22.5°	10916.4	10480.3	8744.9	6623.4	5505.9	5378.7	5510.5	5633.1	5801.2	5883.0	5810.3
25°	11007.3	10371.3	8163.5	5864.8	5187.9	5296.9	5437.8	5605.9	5724.0	5769.4	5801.2
27.5°	11084.5	10203.2	7377.6	5360.5	5088.0	5292.4	5437.8	5578.6	5642.2	5683.1	5719.4
30°	11302.6	10153.2	6696.1	5024.4	5024.4	5201.5	5387.8	5424.1	5510.5	5560.4	5624.0
32.5°	11411.6	9808.0	5996.5	4810.9	4960.8	5247.0	5260.6	5328.7	5333.3	5374.2	5306.0
35°	11697.8	9562.7	5346.9	4656.4	4988.0	5201.5	5269.7	5228.8	5006.2	4897.2	4919.9
37.5°	11906.8	9440.0	4879.0	4638.2	4992.6	5251.5	5287.9	4978.9	4747.3	4565.5	4611.0
40°	12470.1	9135.6	4524.7	4606.4	5033.5	5306.0	5206.1	4869.9	4452.0	4265.7	4233.9
42.5°	12901.6	8917.6	4302.1	4570.1	5065.3	5383.3	5165.2	4651.9	4224.8	4052.2	4097.6
45°	13401.3	8867.6	4183.9	4579.2	5119.8	5424.1	5115.2	4483.8	4029.5	3961.3	3947.7
47.5°	13578.5	8508.7	4056.7	4501.9	5106.1	5410.5	4947.1	4356.6	3956.8	3965.9	4002.2
50°	13283.2	8140.8	3961.3	4342.9	5015.3	5287.9	4683.7	4188.5	3915.9	4029.5	4093.1
52.5°	12906.2	7763.7	3766.0	4129.4	4829.0	5097.1	4561.0	4179.4	3875.0	3838.7	3852.3
55°	13019.8	7454.8	3493.4	3838.7	4529.2	4742.7	4424.7	4093.1	3775.1	3638.8	3684.2
56°	12651.8	7136.8	3316.3	3657.0	4324.8	4515.6	4356.6	4015.9	3693.3	3602.5	3602.5
57.5°	11611.5	6069.2	3084.6	3366.2	3893.2	4120.3	4224.8	3970.4	3602.5	3443.5	3448.0
60°	8563.2	4315.7	2766.6	2966.5	3225.4	3407.1	3893.2	3843.2	3375.3	3266.3	3225.4
62.5°	5278.8	3152.7	2539.4	2616.7	2748.4	2898.3	3398.0	3479.8	3134.6	3016.4	2989.2
65°	2957.4	2412.2	2366.8	2398.6	2462.2	2539.4	2821.1	3002.8	2766.6	2584.9	2575.8
67.5°	2162.4	2157.8	2194.2	2221.4	2248.7	2248.7	2316.8	2389.5	2357.7	2212.4	2198.7
70°	1921.6	1935.2	1962.5	1967.0	1976.1	1944.3	1889.8	1867.1	1903.4	1812.6	1794.4
72.5°	1585.4	1630.9	1662.7	1667.2	1617.2	1576.4	1503.7	1426.4	1399.2	1381.0	1376.5
75°	1217.5	1249.3	1262.9	1258.4	1240.2	1181.1	1094.8	1017.6	967.6	913.1	940.4
77.5°	822.3	867.7	890.4	890.4	863.1	772.3	731.4	672.3	622.4	563.3	572.4
80°	576.9	608.7	645.1	640.5	595.1	549.7	490.6	436.1	395.2	349.8	345.3
82.5°	431.6	449.7	467.9	458.8	427.0	381.6	340.7	290.7	245.3	213.5	213.5
85°	154.5	168.1	204.4	213.5	231.7	231.7	195.3	163.5	131.7	109.0	109.0
87.5°	45.4	45.4	50.0	50.0	45.4	50.0	40.9	45.4	50.0	31.8	31.8
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)