

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: P530532

Luminaire Tested: **GALN-SA5D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530532
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-SA5D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 30081 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

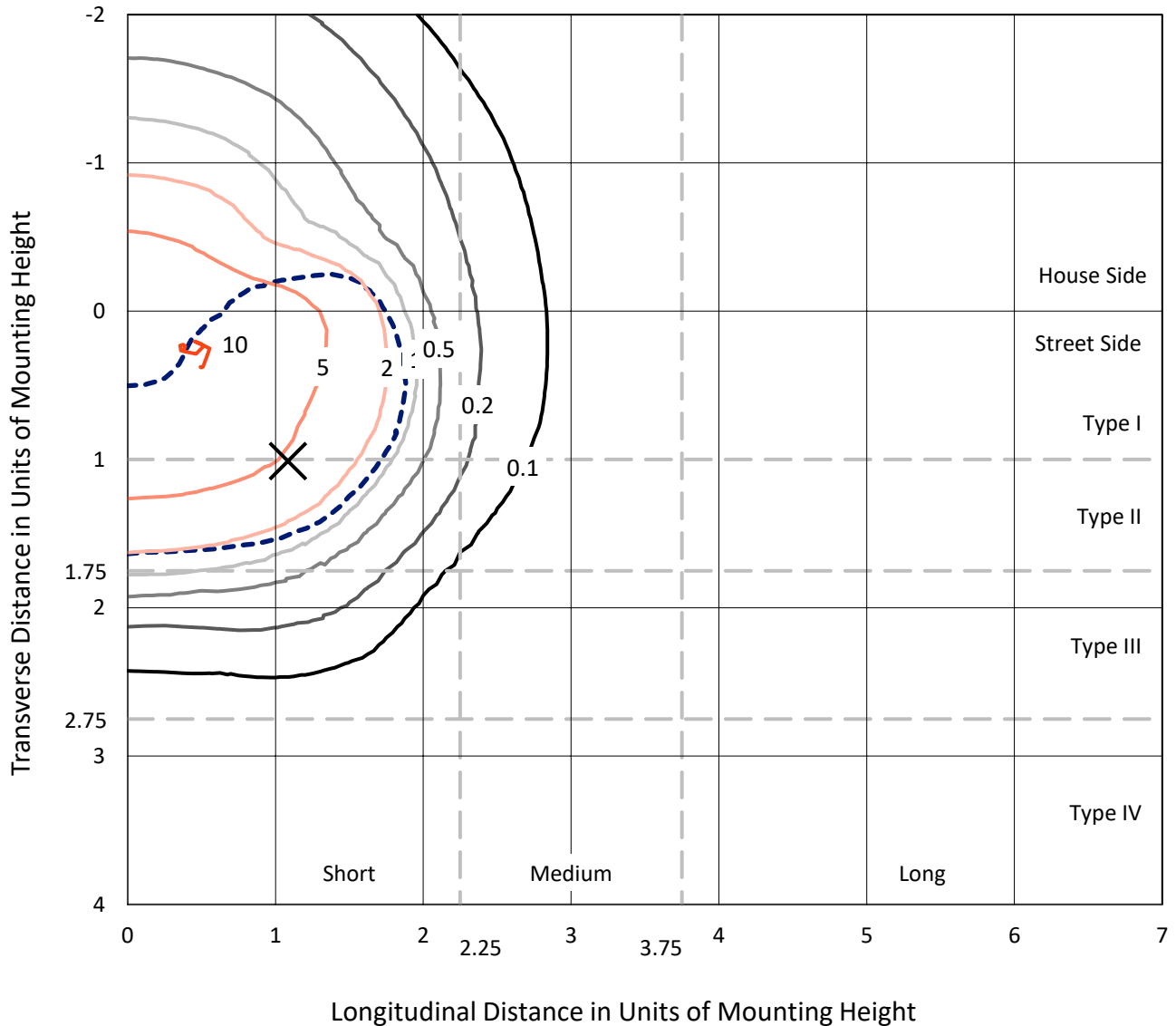
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

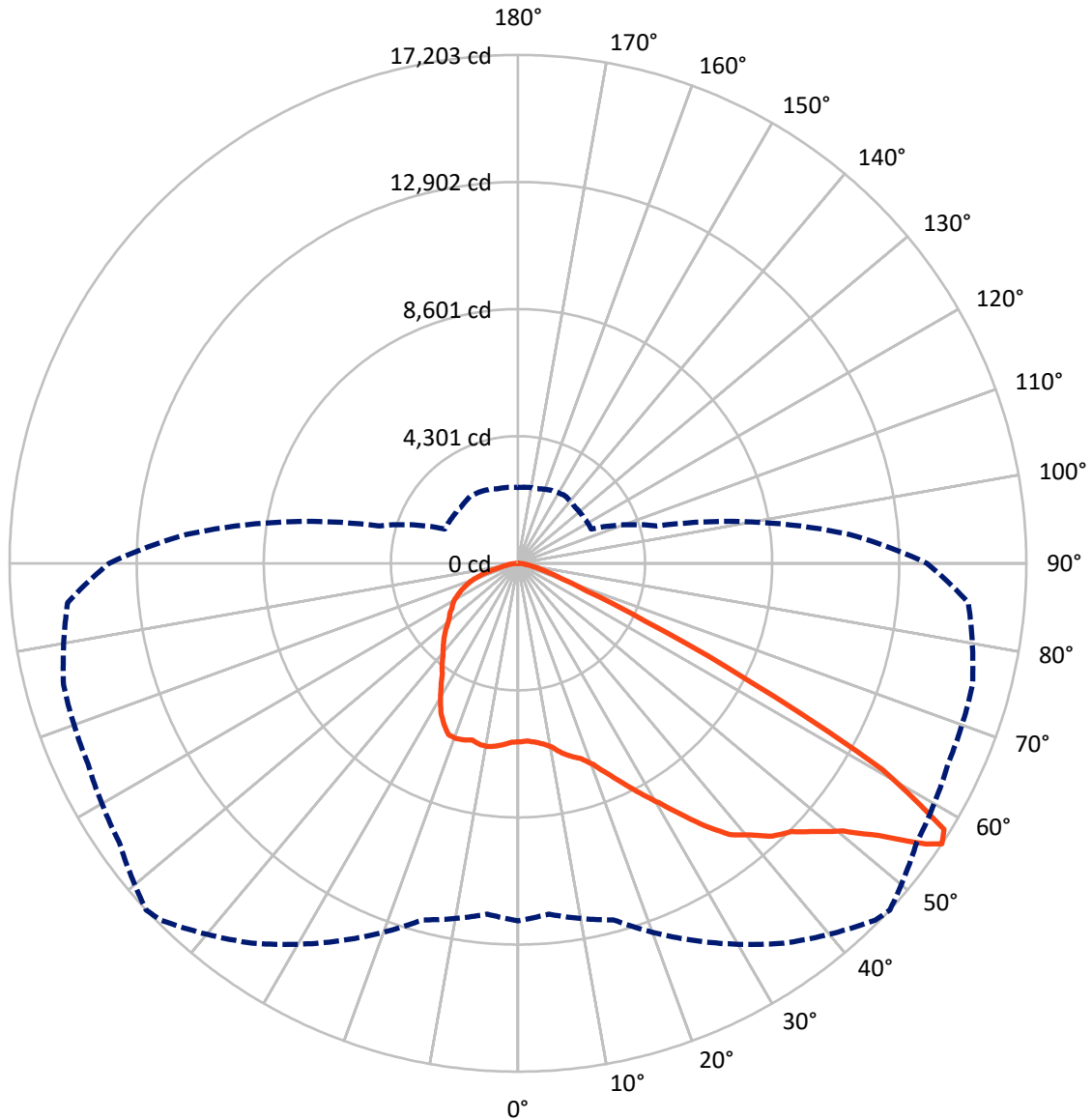
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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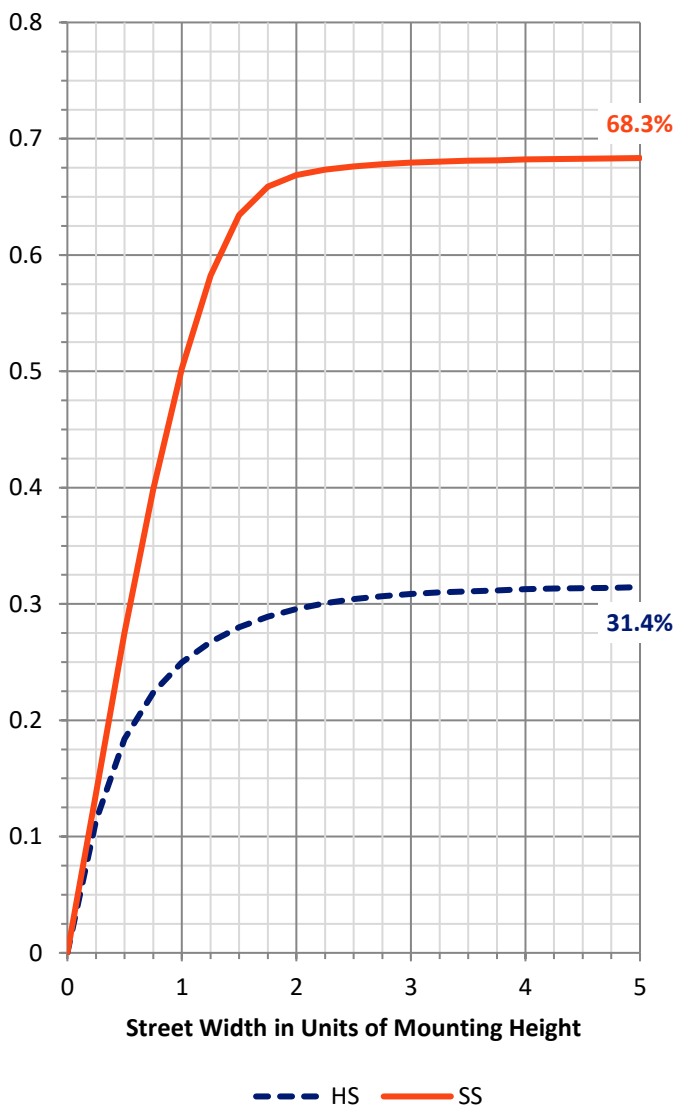
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9532.3	0.0	9532.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	20548.7	0.0	20548.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	30081.0	0.0	30081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.8	2.0
10°-20°	1857.2	6.2
20°-30°	3283.1	10.9
30°-40°	4931.1	16.4
40°-50°	6767.4	22.5
50°-60°	8062.5	26.8
60°-70°	3450.3	11.5
70°-80°	976.4	3.2
80°-90°	164.3	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°	30081.0	100.0
0°-180°	30081.0	100.0

Coefficient of Utilization

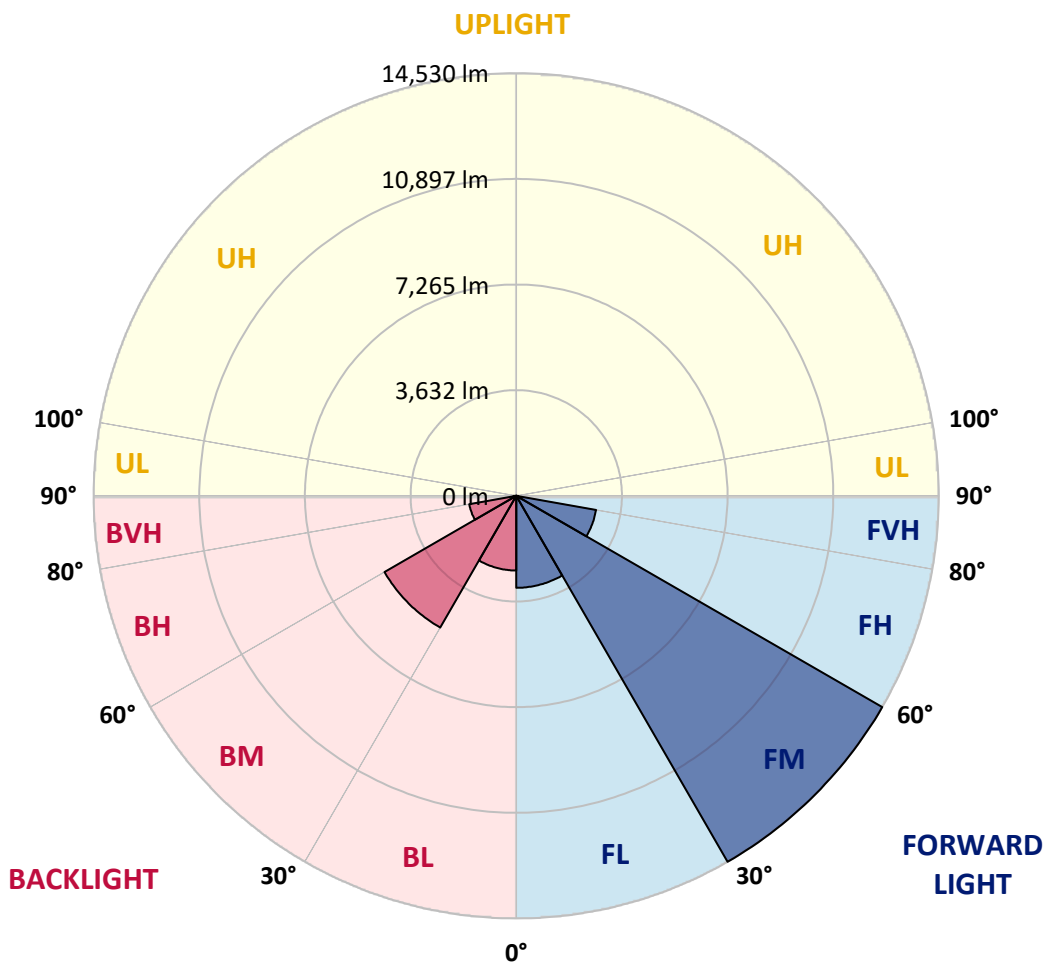


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3162.5	10.5			
FM (30°-60°)	14529.8	48.3			
FH (60°-80°)	2786.6	9.3			G2/5000
FVH (80°-90°)	69.7	0.2			G1/100
BL (0°-30°)	2566.5	8.5	B4/5000		
BM (30°-60°)	5231.2	17.4	B4/8500		
BH (60°-80°)	1640.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	94.6	0.3			G1/100
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°	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4
2.5°	6019.3	6007.8	6000.2	6061.5	6038.5	6042.4	6019.3	6042.4	6057.7	6023.2	6073.1
5°	6007.8	6042.4	6011.7	6030.8	6080.7	6065.4	6080.7	6126.8	6115.3	6103.7	6088.4
7.5°	6115.3	6119.1	6142.1	6149.8	6165.1	6149.8	6172.8	6215.0	6203.5	6138.3	6145.9
10°	6268.7	6276.4	6280.2	6322.4	6349.3	6353.1	6326.3	6287.9	6284.1	6372.3	6310.9
12.5°	6445.2	6426.0	6472.0	6487.4	6518.1	6552.6	6587.1	6506.6	6556.4	6560.3	6487.4
15°	6702.2	6721.4	6667.7	6667.7	6679.2	6683.0	6779.0	6740.6	6732.9	6690.7	6721.4
17.5°	7085.9	6955.4	6951.6	6897.9	6890.2	6920.9	6955.4	6986.1	7089.7	7005.3	6840.3
20°	7365.9	7396.6	7285.4	7220.1	7231.6	7300.7	7266.2	7404.3	7477.2	7339.1	7177.9
22.5°	7860.8	7757.2	7784.1	7638.3	7649.8	7722.7	7718.9	7860.8	7903.0	7684.3	7450.3
25°	8194.6	8167.7	8190.8	8075.7	8091.0	8148.6	8240.6	8474.6	8405.6	8163.9	7623.0
27.5°	8681.8	8628.1	8608.9	8566.7	8551.4	8704.8	8812.3	9061.6	9011.7	8658.8	7929.9
30°	9180.5	9146.0	9165.2	8992.6	9053.9	9380.0	9410.7	9752.2	9729.2	9107.7	8271.3
32.5°	9525.8	9545.0	9579.5	9483.6	9756.0	10016.9	10120.5	10507.9	10527.1	9878.8	8931.2
35°	10082.1	10016.9	10036.1	10147.3	10273.9	10749.6	10918.4	11175.5	11336.6	10688.3	9564.2
37.5°	10431.2	10500.3	10419.7	10596.2	10926.1	11497.7	11651.2	11915.9	12084.7	11486.2	10427.4
40°	10976.0	10864.7	10922.3	11048.9	11386.5	12130.8	12088.6	12360.9	12414.6	12165.3	11233.0
42.5°	11563.0	11509.3	11428.7	11716.4	12000.3	12541.3	12625.7	12499.1	12771.4	12829.0	12384.0
45°	12265.0	12330.2	12341.8	12349.4	12598.8	13070.7	12955.6	12844.3	13158.9	13577.1	13097.5
47.5°	12917.2	12710.1	12859.7	13066.8	13419.8	13423.6	13557.9	13293.2	13627.0	13999.1	13742.1
50°	13135.9	13036.1	13235.6	13627.0	14171.7	14229.3	14244.6	13868.7	14041.3	14336.7	13964.6
52.5°	13051.5	13017.0	13527.2	14133.4	14931.3	15222.9	15299.6	14835.4	14931.3	14797.1	14455.6
55°	12648.7	12752.3	13266.3	14501.7	15725.5	16627.0	16772.8	16185.8	15575.9	15679.4	15303.5
56°	12096.2	11915.9	12491.4	14083.5	15691.0	17083.6	17202.5	16469.7	16055.4	15921.1	15295.8
57.5°	10262.4	10028.4	10784.2	12671.7	14820.1	16910.9	16999.2	16588.7	15974.8	15702.5	14179.4
60°	6007.8	6122.9	7082.0	8739.4	11432.5	13864.8	14160.2	14459.5	14049.0	12829.0	10554.0
62.5°	2900.3	2827.4	3514.2	5010.4	6966.9	8850.6	8762.4	9602.6	10062.9	9115.3	6663.9
65°	1519.2	1511.5	1918.2	2735.4	3828.7	4649.7	4730.3	5183.0	5816.0	4695.8	3383.7
67.5°	1116.4	1147.1	1350.4	1922.0	2463.0	2512.9	2501.3	2727.7	2789.1	2359.4	2079.3
70°	874.7	890.0	1039.7	1461.7	1833.8	1642.0	1607.5	1634.3	1814.6	1891.4	1799.3
72.5°	633.0	648.4	775.0	986.0	1147.1	1120.2	1143.3	1292.9	1515.4	1596.0	1500.0
75°	422.0	433.5	502.6	602.3	679.0	732.8	775.0	947.6	1154.8	1200.8	1154.8
77.5°	291.6	303.1	349.1	425.8	433.5	468.0	483.4	564.0	690.6	748.1	717.4
80°	165.0	165.0	188.0	218.7	268.5	314.6	322.3	387.5	445.0	483.4	491.1
82.5°	76.7	80.6	99.7	134.3	176.5	218.7	226.3	268.5	310.7	349.1	360.6
85°	38.4	42.2	57.5	80.6	107.4	130.4	126.6	130.4	138.1	130.4	134.3
87.5°	11.5	11.5	15.3	19.2	15.3	19.2	19.2	23.0	26.9	30.7	34.5
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°	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4	6042.4
2.5°	6076.9	6088.4	6011.7	6084.6	6057.7	6053.9	6107.6	6099.9	6119.1	6111.4	6065.4
5°	6080.7	6053.9	6134.4	6061.5	6096.1	6169.0	6119.1	6234.2	6176.6	6215.0	6130.6
7.5°	6199.7	6207.3	6192.0	6222.7	6207.3	6241.9	6215.0	6241.9	6195.8	6199.7	6276.4
10°	6303.2	6280.2	6307.1	6268.7	6295.6	6284.1	6222.7	6203.5	6218.8	6199.7	6249.5
12.5°	6495.1	6452.9	6433.7	6387.6	6356.9	6241.9	6145.9	6092.2	6165.1	6176.6	6153.6
15°	6690.7	6694.6	6606.3	6502.7	6310.9	6138.3	6161.3	6180.5	6180.5	6211.2	6153.6
17.5°	6813.5	6813.5	6732.9	6525.7	6330.1	6230.3	6207.3	6145.9	6092.2	6084.6	6080.7
20°	7028.3	6963.1	6779.0	6521.9	6322.4	6276.4	6103.7	5958.0	5846.7	5808.3	5804.5
22.5°	7273.8	7108.9	6851.8	6529.6	6310.9	6245.7	5923.4	5704.8	5505.3	5420.9	5432.4
25°	7500.2	7235.5	6894.0	6495.1	6268.7	5954.1	5593.5	5290.4	5083.3	5014.2	4979.7
27.5°	7657.5	7369.8	6894.0	6525.7	6111.4	5628.0	5259.7	4872.3	4691.9	4645.9	4653.6
30°	7868.5	7538.6	7013.0	6460.5	5796.8	5206.0	4764.8	4511.6	4404.2	4365.8	4392.7
32.5°	8363.4	7979.8	7177.9	6303.2	5424.7	4784.0	4427.2	4285.3	4128.0	4051.3	4024.4
35°	8900.5	8397.9	7339.1	6038.5	5006.5	4400.4	4177.9	4047.4	3859.4	3775.0	3790.4
37.5°	9660.1	8935.0	7350.6	5601.2	4553.8	4185.5	3982.2	3778.9	3625.4	3495.0	3456.6
40°	10684.4	9667.8	7323.7	5140.8	4189.4	3932.3	3782.7	3529.5	3356.9	3264.8	3284.0
42.5°	11586.0	10527.1	7212.5	4619.0	3859.4	3759.7	3590.9	3341.5	3172.7	3076.8	3069.1
45°	12345.6	11160.1	7001.5	4174.0	3583.2	3567.9	3372.2	3180.4	3046.1	2957.9	2996.2
47.5°	13047.7	11670.4	6683.0	3729.0	3330.0	3360.7	3172.7	3053.8	2969.4	2888.8	2885.0
50°	13300.9	11662.7	6403.0	3360.7	3126.7	3111.3	3103.7	2977.1	2888.8	2819.8	2850.5
52.5°	13722.9	11793.2	6099.9	3107.5	2942.5	2946.4	2973.2	2881.2	2781.4	2739.2	2777.6
55°	14329.0	11812.3	5432.4	2812.1	2789.1	2815.9	2815.9	2754.5	2670.1	2635.6	2616.4
56°	13834.1	11240.7	4872.3	2735.4	2712.3	2712.3	2785.2	2716.2	2612.6	2585.7	2562.7
57.5°	12759.9	9848.1	4078.1	2643.3	2608.8	2662.5	2700.8	2627.9	2532.0	2493.7	2516.7
60°	8800.7	6663.9	3065.3	2443.8	2443.8	2532.0	2562.7	2455.3	2413.1	2409.3	2378.6
62.5°	5137.0	3882.5	2397.8	2263.5	2271.2	2344.1	2367.1	2305.7	2252.0	2317.2	2347.9
65°	2723.9	2317.2	2056.3	2071.7	2075.5	2133.0	2232.8	2229.0	2225.1	2244.3	2248.1
67.5°	1971.9	1925.9	1868.3	1853.0	1860.7	1902.9	2002.6	2079.3	2075.5	2029.5	1994.9
70°	1757.1	1691.9	1657.3	1661.2	1630.5	1680.4	1760.9	1810.8	1722.6	1668.8	1645.8
72.5°	1461.7	1442.5	1419.5	1423.3	1361.9	1350.4	1258.3	1258.3	1235.3	1220.0	1246.8
75°	1116.4	1108.7	1120.2	1101.1	1035.8	966.8	913.1	863.2	786.5	755.8	740.4
77.5°	705.9	728.9	755.8	713.6	686.7	636.8	583.1	533.3	471.9	437.4	437.4
80°	479.6	498.7	517.9	510.2	479.6	433.5	391.3	337.6	295.4	268.5	264.7
82.5°	364.5	379.8	406.7	376.0	345.3	306.9	272.4	234.0	195.7	165.0	165.0
85°	130.4	149.6	165.0	180.3	191.8	195.7	168.8	138.1	111.3	88.2	84.4
87.5°	34.5	38.4	42.2	38.4	38.4	38.4	42.2	38.4	34.5	26.9	26.9
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)