

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: P530520

Luminaire Tested: **GALN-SA5D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29905 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

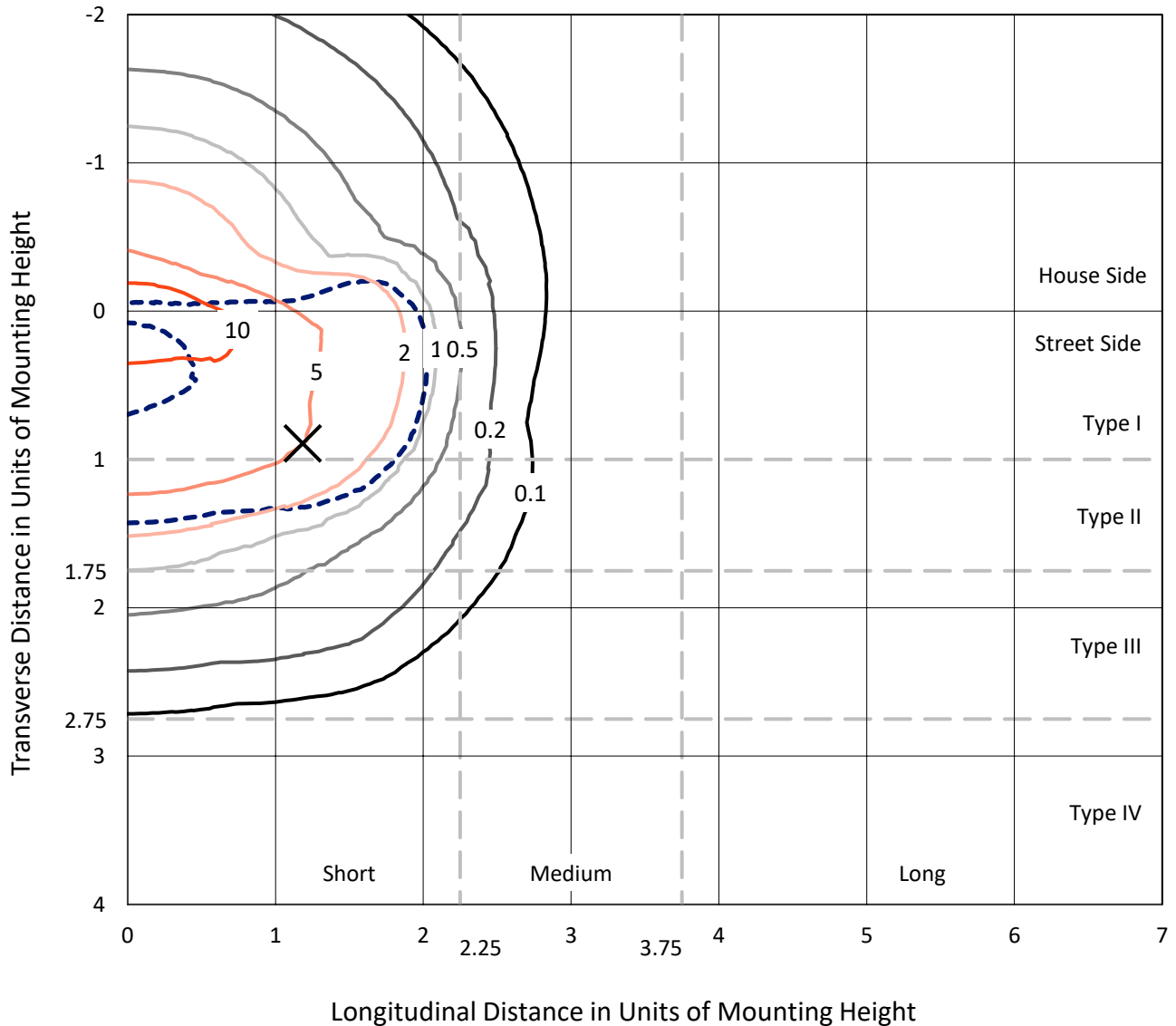
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

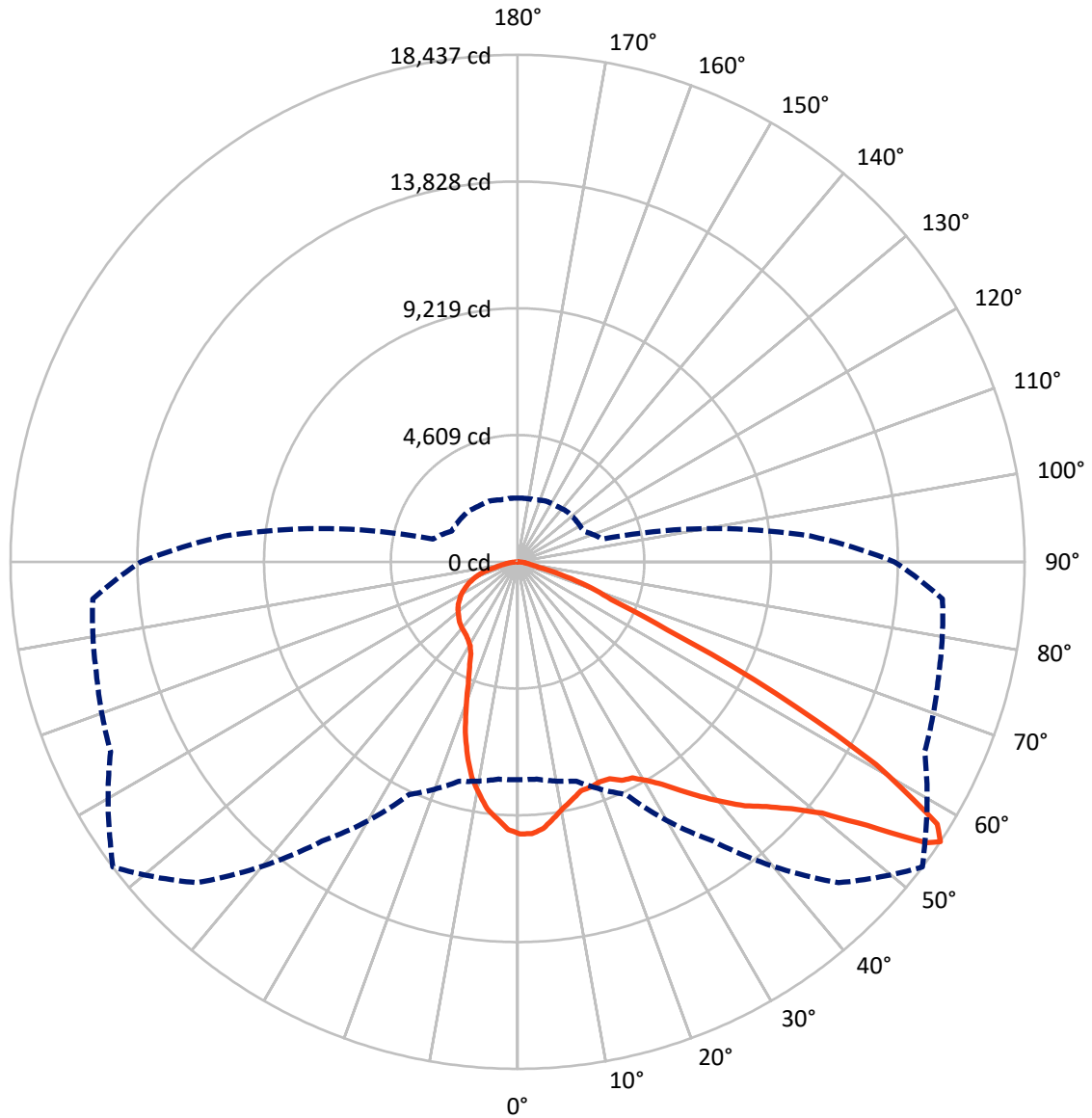
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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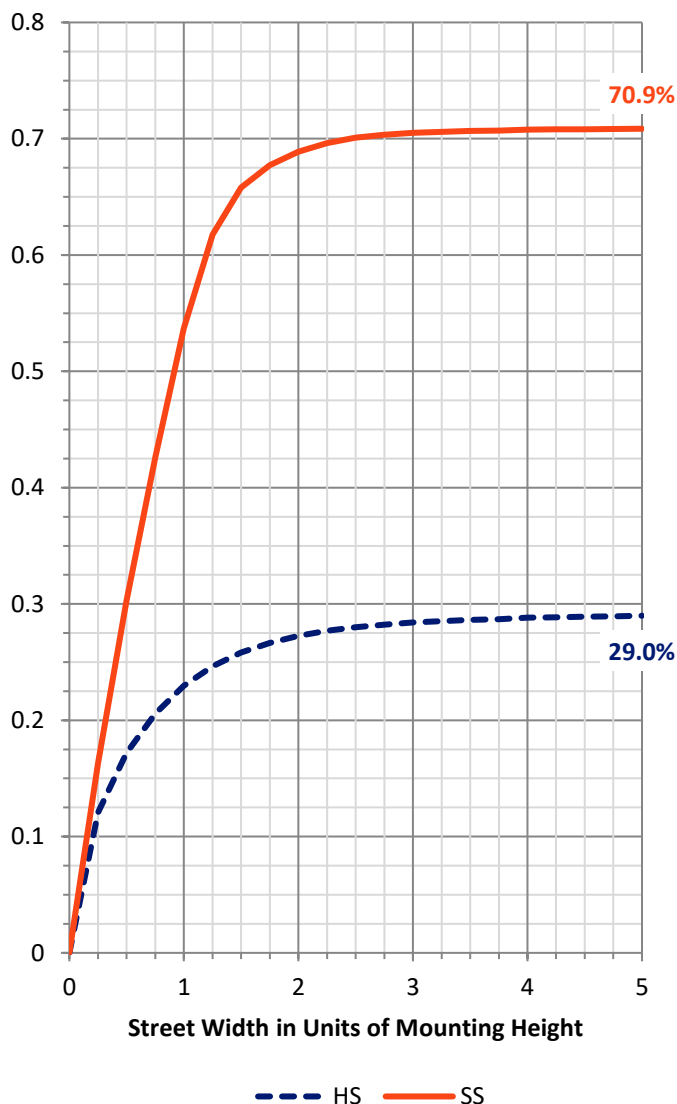
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8726.9	0.0	8726.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	21178.1	0.0	21178.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	29905.0	0.0	29905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.9	2.9
10°-20°	2187.6	7.3
20°-30°	3225.8	10.8
30°-40°	4609.0	15.4
40°-50°	6343.6	21.2
50°-60°	7496.5	25.1
60°-70°	3995.1	13.4
70°-80°	1013.5	3.4
80°-90°	158.0	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°	29905.0	100.0
0°-180°	29905.0	100.0

Coefficient of Utilization



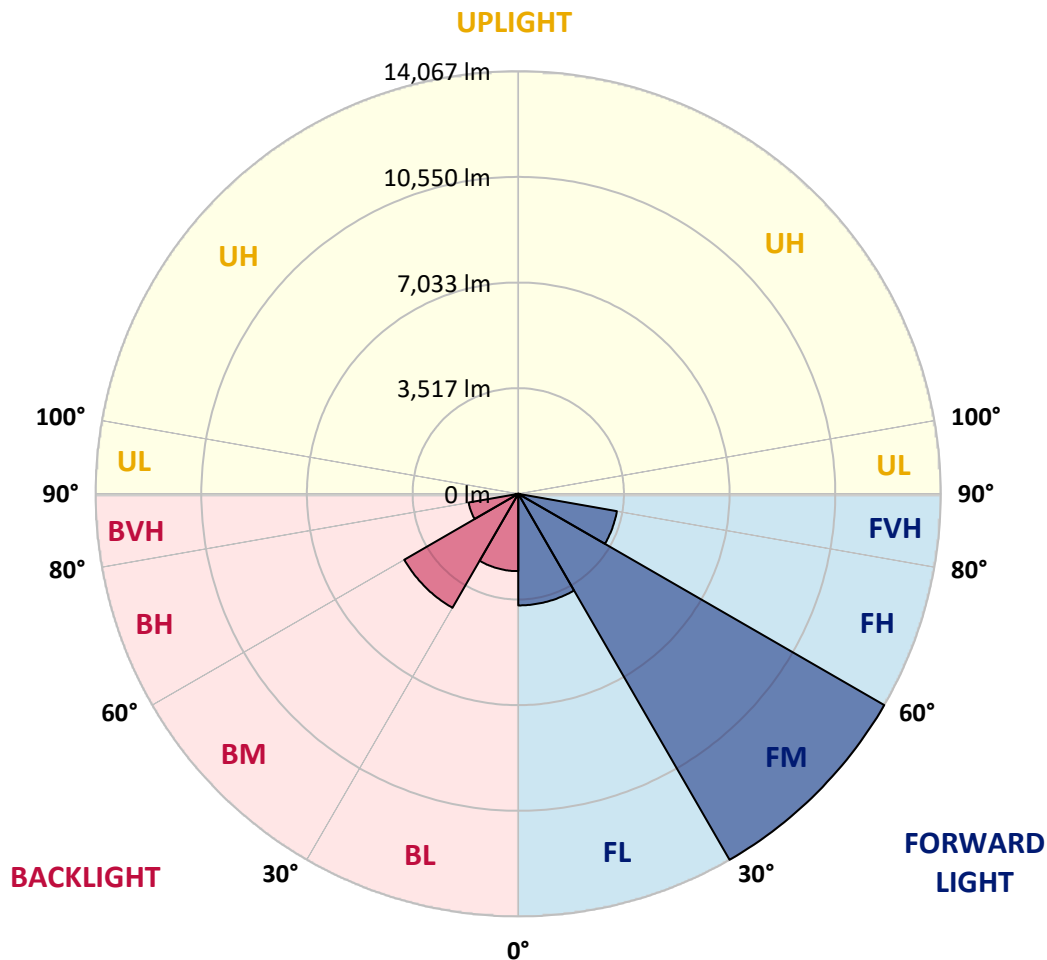
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3715.3	12.4			
FM (30°-60°)	14066.7	47.0			
FH (60°-80°)	3332.5	11.1			G2/5000
FVH (80°-90°)	63.5	0.2			G1/100
BL (0°-30°)	2573.9	8.6	B4/5000		
BM (30°-60°)	4382.4	14.7	B3/5000		
BH (60°-80°)	1676.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	94.5	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°	53°	55°	65°	75°	85°
0°	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8
2.5°	9771.0	9686.6	9736.5	9717.3	9874.6	9920.6	9897.6	9916.8	10005.0	9962.8	9874.6
5°	9130.3	9249.3	9272.3	9329.8	9421.9	9602.2	9744.1	9782.5	9824.7	10020.3	10001.2
7.5°	8547.2	8627.8	8585.6	8754.4	8953.9	9245.4	9418.1	9448.7	9836.2	9943.6	10024.2
10°	8178.9	8098.4	8290.2	8336.2	8562.6	8896.3	9103.5	9230.1	9583.0	10008.8	10058.7
12.5°	7837.5	7810.7	7925.7	8056.2	8309.4	8654.6	8865.6	8915.5	9460.3	9909.1	10143.1
15°	7584.3	7553.6	7668.7	7764.6	8060.0	8366.9	8635.5	8777.4	9326.0	9851.6	10070.2
17.5°	7384.8	7381.0	7446.2	7618.8	7921.9	8178.9	8612.4	8620.1	9256.9	9939.8	10131.6
20°	7373.3	7369.5	7381.0	7572.8	7849.0	8163.6	8539.5	8608.6	9256.9	9878.4	10135.4
22.5°	7469.2	7407.8	7476.9	7599.7	7799.1	8190.4	8566.4	8719.9	9479.4	10181.5	10308.1
25°	7622.7	7638.0	7676.4	7718.6	7833.7	8251.8	8804.3	8930.8	9740.3	10442.3	10545.9
27.5°	7902.7	7895.1	7910.4	7933.4	8033.2	8309.4	8900.2	9226.2	10285.1	10906.5	10802.9
30°	8313.2	8286.4	8347.7	8428.3	8336.2	8493.5	9218.6	9464.1	10791.4	11374.6	11090.7
32.5°	8685.3	8785.1	8900.2	8934.7	8823.4	8854.1	9640.6	9889.9	11213.4	11950.0	11443.6
35°	9149.5	9230.1	9383.5	9490.9	9471.8	9379.7	10216.0	10545.9	11823.4	12372.0	11815.7
37.5°	9602.2	9698.1	9951.3	10269.7	10093.2	10051.0	10829.8	11102.2	12011.4	12598.3	12088.1
40°	10331.1	10327.3	10764.6	10929.5	11086.8	11013.9	11466.6	11558.7	12111.1	12548.5	12095.8
42.5°	11186.6	11132.9	11577.9	11834.9	12038.2	12045.9	12130.3	12099.6	12157.2	12295.3	12015.2
45°	11999.9	12115.0	12563.8	13024.2	13227.5	13250.5	12690.4	12632.9	12237.7	12222.4	11861.8
47.5°	12993.5	13020.3	13388.6	13994.7	14466.6	14305.5	13415.5	13288.9	12590.7	12709.6	12118.8
50°	13051.0	13250.5	13580.4	14294.0	15744.1	15701.9	14355.3	14117.5	13158.4	13400.1	12836.2
52.5°	11846.4	11800.4	12191.7	13357.9	15648.2	17090.6	15912.9	15345.1	14378.4	14194.2	13998.6
55°	9026.8	9134.2	9479.4	10657.2	13588.1	17109.8	18034.3	17570.1	15682.7	15368.1	15141.8
56°	7918.1	7933.4	8259.5	9333.7	12398.8	16499.8	18437.1	18061.2	16331.0	15851.5	15506.2
57.5°	6563.9	6475.6	6644.4	7231.4	10465.4	15210.8	17996.0	18364.2	17090.6	16373.2	15893.7
60°	5167.5	5148.3	5079.2	5186.6	6613.7	11459.0	14980.7	15809.3	17013.9	15882.2	15222.3
62.5°	4219.9	4124.0	4262.1	4415.6	4595.9	7108.6	10526.7	11013.9	13507.5	12678.9	11435.9
65°	3272.3	3226.3	3398.9	3897.7	4005.1	4515.3	5996.1	6372.1	7975.6	7833.7	6897.6
67.5°	2251.9	2259.6	2409.2	3168.8	3713.5	3667.5	3671.3	3867.0	4162.4	3092.0	2693.1
70°	1427.1	1423.3	1503.8	2040.9	2988.5	3019.1	2865.7	2808.2	2662.4	1611.2	1707.1
72.5°	916.9	890.0	932.2	1127.9	1546.0	1787.7	1841.4	1875.9	1542.2	1266.0	1373.4
75°	517.9	491.0	475.7	525.6	610.0	705.9	774.9	797.9	893.9	959.1	1016.6
77.5°	157.3	141.9	172.6	230.2	303.1	406.6	494.9	510.2	602.3	679.0	736.6
80°	69.1	76.7	107.4	153.5	214.8	287.7	349.1	372.1	433.5	491.0	506.4
82.5°	42.2	46.0	72.9	103.6	149.6	203.3	249.4	257.0	318.4	364.4	376.0
85°	15.3	19.2	38.4	61.4	95.9	130.4	130.4	141.9	130.4	130.4	141.9
87.5°	0.0	0.0	3.8	7.7	7.7	11.5	15.3	15.3	19.2	23.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8	9893.8
2.5°	9920.6	9901.4	9870.7	9759.5	9748.0	9713.4	9521.6	9490.9	9521.6	9429.6	9437.2
5°	9901.4	9959.0	9728.8	9617.5	9410.4	9260.8	9088.1	8999.9	8842.6	8742.9	8854.1
7.5°	9985.8	9962.8	9675.1	9433.4	9122.7	8742.9	8439.8	8267.2	7991.0	7914.2	7971.8
10°	9955.1	9832.4	9494.8	9176.4	8589.4	8255.7	7764.6	7288.9	7028.1	6893.8	6874.6
12.5°	9912.9	9878.4	9314.5	8765.9	8148.2	7446.2	6755.7	6306.8	5881.0	5696.9	5723.7
15°	9962.8	9671.2	8976.9	8282.5	7461.6	6540.8	5796.6	5217.3	4921.9	4803.0	4803.0
17.5°	9939.8	9571.5	8815.8	7741.6	6702.0	5612.5	4795.3	4446.2	4323.5	4323.5	4358.0
20°	9951.3	9636.7	8489.7	7200.7	5804.3	4726.3	4131.7	4005.1	4058.8	4078.0	4097.1
22.5°	10016.5	9421.9	8171.3	6606.1	4971.8	4043.4	3751.9	3755.7	3851.6	3955.2	3936.0
25°	10097.1	9337.5	7783.8	6015.3	4335.0	3709.7	3617.6	3606.1	3679.0	3732.7	3740.4
27.5°	10028.0	9191.7	7388.7	5278.7	3813.3	3487.2	3468.0	3475.7	3498.7	3606.1	3571.6
30°	10254.4	9233.9	6893.8	4661.1	3525.5	3414.3	3391.3	3379.8	3414.3	3445.0	3418.1
32.5°	10534.4	9084.3	6525.5	4066.5	3383.6	3360.6	3314.5	3299.2	3318.4	3287.7	3303.0
35°	10657.2	9057.4	6046.0	3640.6	3272.3	3253.2	3226.3	3222.5	3226.3	3199.5	3176.4
37.5°	10726.2	9184.0	5497.4	3445.0	3203.3	3222.5	3161.1	3153.4	3084.4	3099.7	3111.2
40°	10845.1	8988.4	5052.4	3257.0	3161.1	3122.7	3069.0	3057.5	3011.5	2984.6	3011.5
42.5°	10672.5	8930.8	4615.0	3176.4	3099.7	3057.5	3019.1	2953.9	2938.6	2915.6	2900.2
45°	10534.4	8600.9	4223.7	3076.7	3026.8	3003.8	2930.9	2861.9	2804.3	2827.3	2792.8
47.5°	10638.0	8485.8	3836.3	2992.3	2927.1	2900.2	2827.3	2773.6	2716.1	2689.2	2681.6
50°	11052.3	8700.7	3510.2	2930.9	2842.7	2827.3	2731.4	2670.0	2616.3	2597.2	2604.8
52.5°	12042.1	9287.6	3287.7	2804.3	2762.1	2693.1	2639.4	2562.6	2528.1	2466.7	2505.1
55°	13296.5	10242.9	3230.1	2685.4	2662.4	2601.0	2528.1	2470.6	2405.3	2355.5	2344.0
56°	13699.3	10699.4	3184.1	2639.4	2601.0	2566.5	2470.6	2436.0	2332.5	2320.9	2313.3
57.5°	14025.4	11102.2	3191.8	2551.1	2512.8	2482.1	2424.5	2340.1	2271.1	2228.9	2248.1
60°	13288.9	10392.5	3046.0	2416.9	2409.2	2351.6	2271.1	2232.7	2148.3	2098.4	2086.9
62.5°	9878.4	7054.9	2470.6	2244.2	2240.4	2179.0	2086.9	2044.7	2029.4	1960.3	1960.3
65°	5689.2	4423.2	2136.8	2102.3	2071.6	2010.2	1918.1	1883.6	1845.2	1822.2	1803.0
67.5°	2428.4	2294.1	1941.2	1937.3	1902.8	1826.1	1734.0	1680.3	1630.4	1584.4	1607.4
70°	1760.9	1787.7	1753.2	1734.0	1691.8	1595.9	1515.3	1450.1	1373.4	1342.7	1365.7
72.5°	1396.4	1453.9	1503.8	1507.7	1457.8	1346.5	1258.3	1170.1	1085.7	1043.5	1062.6
75°	1058.8	1097.2	1147.0	1158.6	1085.7	1008.9	924.5	832.5	767.3	717.4	725.1
77.5°	763.4	755.7	801.8	794.1	759.6	705.9	629.1	544.8	471.9	425.8	429.7
80°	521.7	533.2	560.1	556.3	514.1	479.5	422.0	352.9	299.2	260.9	253.2
82.5°	364.4	383.6	406.6	387.5	352.9	318.4	276.2	226.3	184.1	153.5	145.8
85°	130.4	149.6	172.6	184.1	195.7	188.0	157.3	126.6	92.1	76.7	72.9
87.5°	26.9	30.7	34.5	34.5	34.5	30.7	26.9	26.9	23.0	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

(END OF REPORT)