

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: P533562

Luminaire Tested: **GALN-SA9A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533562
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-SA9A-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 32002 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

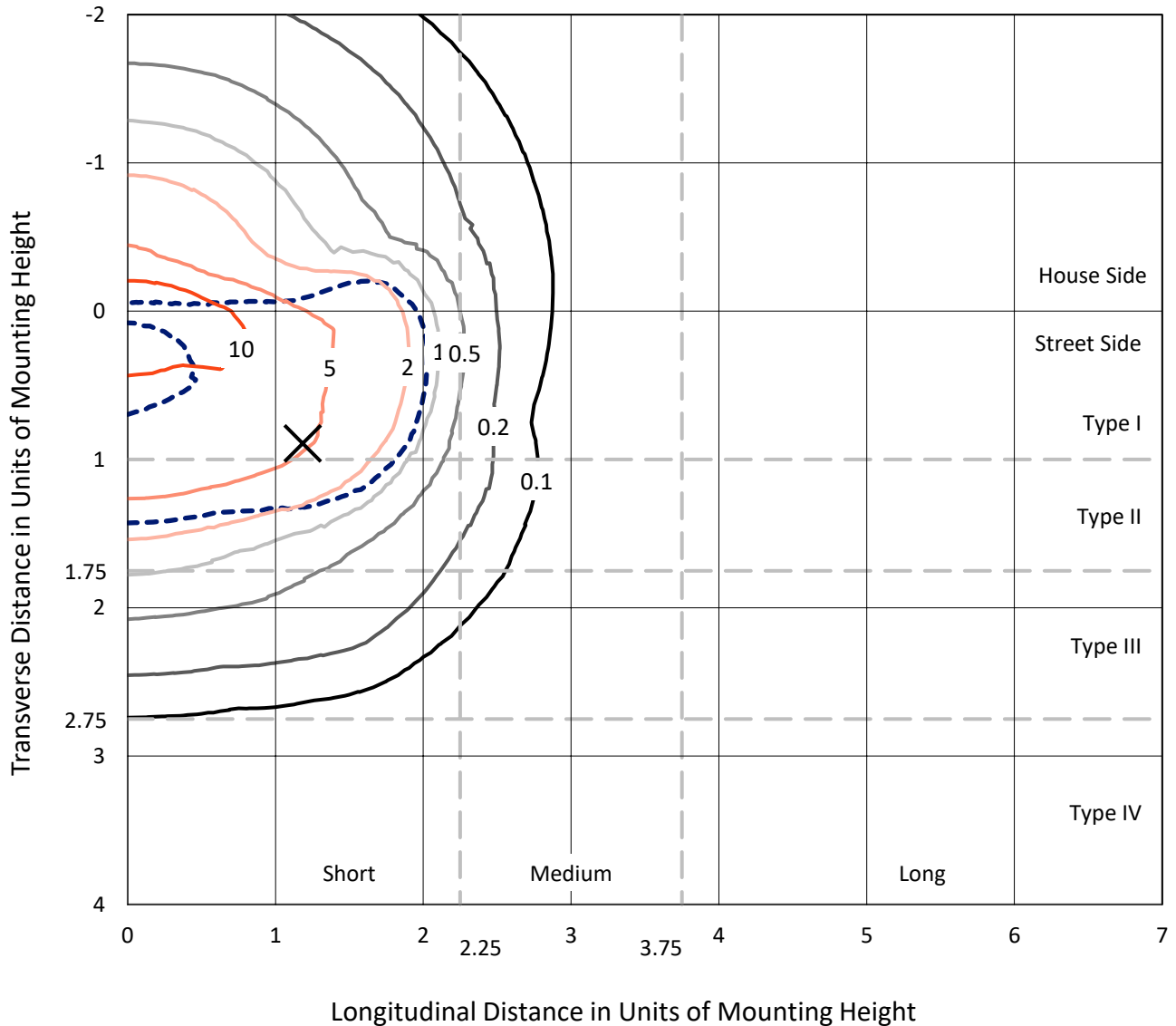
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

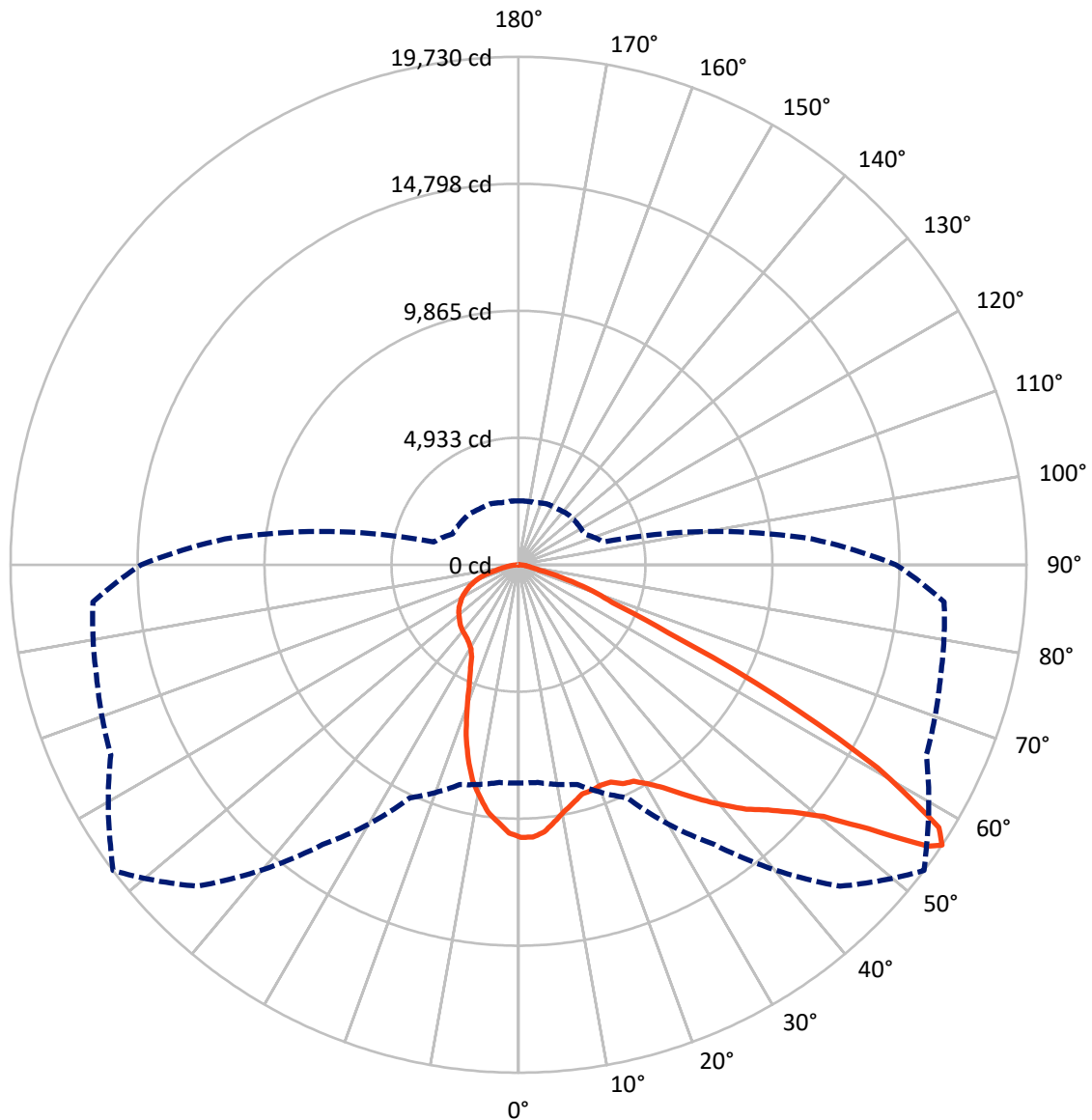
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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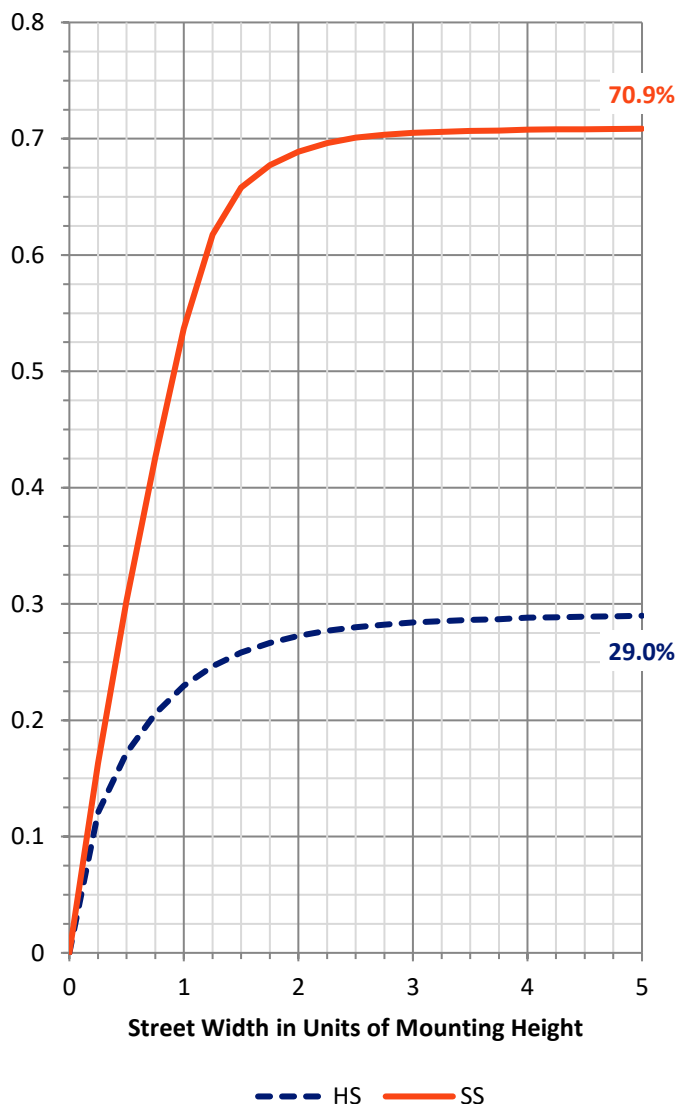
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9338.9	0.0	9338.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	22663.1	0.0	22663.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	32002.0	0.0	32002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.3	2.9
10°-20°	2341.0	7.3
20°-30°	3452.0	10.8
30°-40°	4932.2	15.4
40°-50°	6788.5	21.2
50°-60°	8022.1	25.1
60°-70°	4275.3	13.4
70°-80°	1084.6	3.4
80°-90°	169.1	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°	32002.0	100.0
0°-180°	32002.0	100.0

Coefficient of Utilization

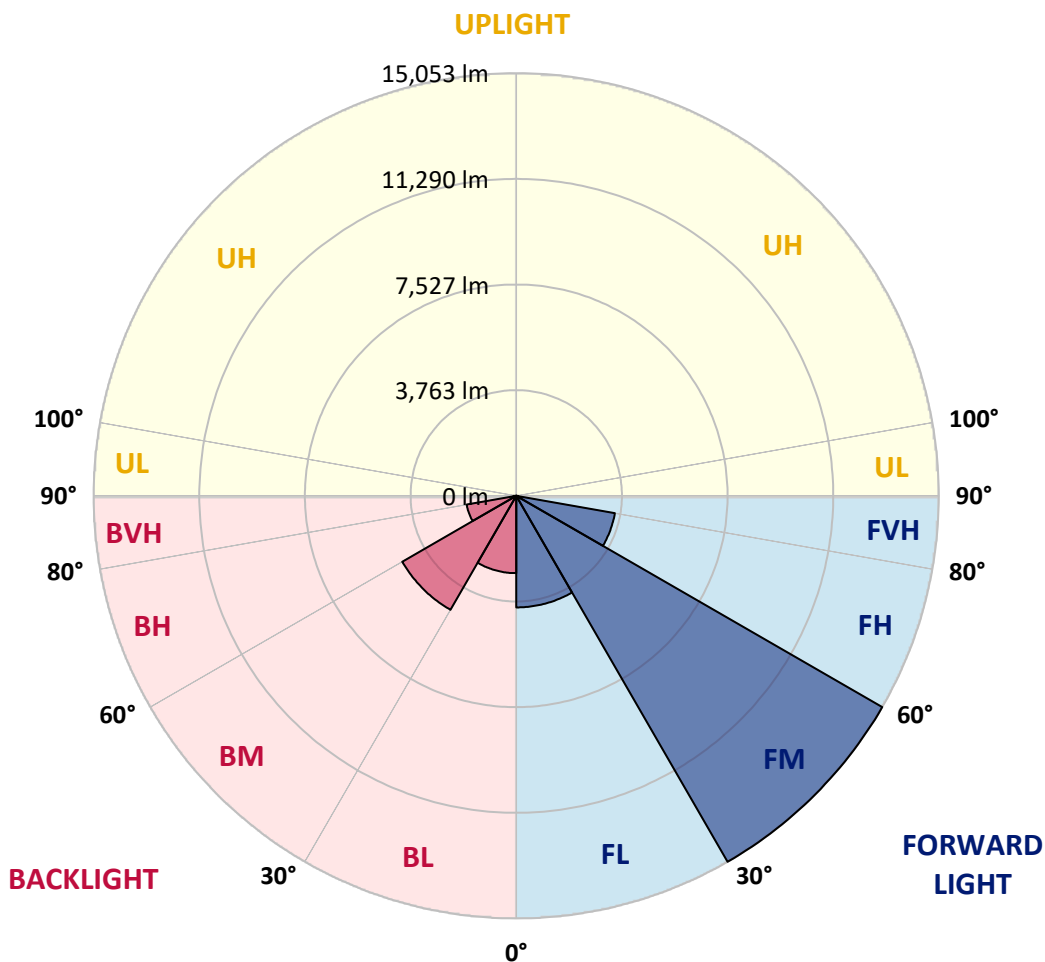


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3975.8	12.4			
FM (30°-60°)	15053.1	47.0			
FH (60°-80°)	3566.2	11.1			G2/5000
FVH (80°-90°)	68.0	0.2			G1/100
BL (0°-30°)	2754.4	8.6	B4/5000		
BM (30°-60°)	4689.7	14.7	B3/5000		
BH (60°-80°)	1793.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	101.1	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°	53°	55°	65°	75°	85°
0°	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5
2.5°	10456.2	10365.8	10419.2	10398.7	10567.0	10616.3	10591.6	10612.2	10706.6	10661.4	10567.0
5°	9770.6	9897.8	9922.5	9984.0	10082.6	10275.5	10427.4	10468.5	10513.6	10723.0	10702.5
7.5°	9146.6	9232.8	9187.6	9368.3	9581.7	9893.7	10078.5	10111.3	10525.9	10640.9	10727.1
10°	8752.5	8666.3	8871.5	8920.8	9163.0	9520.1	9741.8	9877.3	10255.0	10710.7	10764.0
12.5°	8387.1	8358.4	8481.5	8621.1	8892.0	9261.5	9487.3	9540.7	10123.6	10603.9	10854.4
15°	8116.1	8083.3	8206.5	8309.1	8625.2	8953.6	9241.0	9392.9	9979.9	10542.4	10776.4
17.5°	7902.7	7898.6	7968.4	8153.1	8477.4	8752.5	9216.4	9224.6	9906.0	10636.8	10842.1
20°	7890.4	7886.2	7898.6	8103.8	8399.4	8736.0	9138.4	9212.3	9906.0	10571.1	10846.2
22.5°	7993.0	7927.3	8001.2	8132.6	8346.0	8764.8	9167.1	9331.3	10144.2	10895.4	11030.9
25°	8157.2	8173.6	8214.7	8259.8	8383.0	8830.5	9421.6	9557.1	10423.3	11174.6	11285.4
27.5°	8456.9	8448.7	8465.1	8489.7	8596.5	8892.0	9524.3	9873.2	11006.3	11671.3	11560.5
30°	8896.1	8867.4	8933.1	9019.3	8920.8	9089.1	9865.0	10127.7	11548.2	12172.2	11868.4
32.5°	9294.4	9401.1	9524.3	9561.2	9442.1	9475.0	10316.6	10583.4	11999.7	12788.0	12246.1
35°	9791.1	9877.3	10041.5	10156.5	10135.9	10037.4	10932.4	11285.4	12652.5	13239.5	12644.3
37.5°	10275.5	10378.2	10649.1	10989.8	10801.0	10755.8	11589.2	11880.7	12853.6	13481.7	12935.7
40°	11055.5	11051.4	11519.4	11695.9	11864.3	11786.3	12270.7	12369.2	12960.4	13428.4	12944.0
42.5°	11971.0	11913.5	12389.7	12664.8	12882.4	12890.6	12980.9	12948.1	13009.6	13157.4	12857.7
45°	12841.3	12964.5	13444.8	13937.4	14155.0	14179.6	13580.3	13518.7	13095.9	13079.4	12693.5
47.5°	13904.6	13933.3	14327.4	14976.1	15481.0	15308.6	14356.2	14220.7	13473.5	13600.8	12968.6
50°	13966.2	14179.6	14532.7	15296.3	16848.1	16802.9	15362.0	15107.4	14081.1	14339.8	13736.3
52.5°	12677.1	12627.8	13046.6	14294.6	16745.4	18289.0	17028.7	16421.1	15386.6	15189.5	14980.2
55°	9659.7	9774.7	10144.2	11404.5	14540.9	18309.6	19298.9	18802.2	16782.4	16445.8	16203.5
56°	8473.3	8489.7	8838.7	9988.2	13268.3	17656.8	19730.0	19327.7	17476.2	16963.0	16593.6
57.5°	7024.1	6929.7	7110.3	7738.5	11199.2	16277.4	19257.9	19652.0	18289.0	17521.3	17008.2
60°	5529.8	5509.3	5435.4	5550.3	7077.5	12262.5	16031.1	16917.9	18206.9	16995.9	16289.8
62.5°	4515.8	4413.2	4561.0	4725.2	4918.1	7607.1	11264.9	11786.3	14454.7	13568.0	12237.8
65°	3501.8	3452.5	3637.3	4171.0	4285.9	4831.9	6416.6	6818.9	8534.9	8383.0	7381.3
67.5°	2409.8	2418.0	2578.1	3391.0	3973.9	3924.6	3928.8	4138.1	4454.2	3308.9	2881.9
70°	1527.2	1523.1	1609.3	2184.0	3198.0	3230.9	3066.6	3005.1	2849.1	1724.2	1826.9
72.5°	981.2	952.4	997.6	1207.0	1654.4	1913.1	1970.5	2007.5	1650.3	1354.7	1469.7
75°	554.2	525.5	509.1	562.4	652.7	755.4	829.3	853.9	956.5	1026.3	1087.9
77.5°	168.3	151.9	184.7	246.3	324.3	435.2	529.6	546.0	644.5	726.6	788.2
80°	73.9	82.1	114.9	164.2	229.9	307.9	373.6	398.2	463.9	525.5	541.9
82.5°	45.2	49.3	78.0	110.8	160.1	217.6	266.8	275.1	340.7	390.0	402.3
85°	16.4	20.5	41.1	65.7	102.6	139.6	139.6	151.9	139.6	139.6	151.9
87.5°	0.0	0.0	4.1	8.2	8.2	12.3	16.4	16.4	20.5	24.6	28.7
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°	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5	10587.5
2.5°	10616.3	10595.7	10562.9	10443.8	10431.5	10394.6	10189.3	10156.5	10189.3	10090.8	10099.0
5°	10595.7	10657.3	10411.0	10291.9	10070.3	9910.2	9725.4	9631.0	9462.7	9355.9	9475.0
7.5°	10686.0	10661.4	10353.5	10094.9	9762.4	9355.9	9031.6	8846.9	8551.3	8469.2	8530.8
10°	10653.2	10521.8	10160.6	9819.8	9191.7	8834.6	8309.1	7800.0	7520.9	7377.2	7356.7
12.5°	10608.0	10571.1	9967.6	9380.6	8719.6	7968.4	7229.4	6749.1	6293.4	6096.3	6125.1
15°	10661.4	10349.4	9606.4	8863.3	7984.8	6999.5	6203.1	5583.2	5267.1	5139.8	5139.8
17.5°	10636.8	10242.7	9433.9	8284.5	7171.9	6006.0	5131.6	4758.0	4626.7	4626.7	4663.6
20°	10649.1	10312.5	9085.0	7705.6	6211.3	5057.7	4421.4	4285.9	4343.4	4363.9	4384.4
22.5°	10718.9	10082.6	8744.3	7069.3	5320.4	4327.0	4015.0	4019.1	4121.7	4232.5	4212.0
25°	10805.1	9992.3	8329.6	6437.1	4639.0	3969.8	3871.3	3859.0	3937.0	3994.4	4002.7
27.5°	10731.2	9836.3	7906.8	5648.9	4080.7	3731.7	3711.2	3719.4	3744.0	3859.0	3822.0
30°	10973.4	9881.4	7377.2	4987.9	3772.8	3653.7	3629.1	3616.8	3653.7	3686.5	3657.8
32.5°	11273.1	9721.3	6983.1	4351.6	3620.9	3596.2	3547.0	3530.5	3551.1	3518.2	3534.6
35°	11404.5	9692.6	6469.9	3895.9	3501.8	3481.3	3452.5	3448.4	3452.5	3423.8	3399.2
37.5°	11478.4	9828.0	5882.9	3686.5	3427.9	3448.4	3382.8	3374.5	3300.6	3317.1	3329.4
40°	11605.6	9618.7	5406.7	3485.4	3382.8	3341.7	3284.2	3271.9	3222.6	3193.9	3222.6
42.5°	11420.9	9557.1	4938.7	3399.2	3317.1	3271.9	3230.9	3161.1	3144.6	3120.0	3103.6
45°	11273.1	9204.0	4519.9	3292.4	3239.1	3214.4	3136.4	3062.5	3001.0	3025.6	2988.6
47.5°	11383.9	9080.9	4105.3	3202.1	3132.3	3103.6	3025.6	2968.1	2906.5	2877.8	2869.6
50°	11827.3	9310.8	3756.3	3136.4	3042.0	3025.6	2923.0	2857.3	2799.8	2779.3	2787.5
52.5°	12886.5	9938.9	3518.2	3001.0	2955.8	2881.9	2824.4	2742.3	2705.4	2639.7	2680.7
55°	14228.9	10961.1	3456.6	2873.7	2849.1	2783.4	2705.4	2643.8	2574.0	2520.6	2508.3
56°	14660.0	11449.6	3407.4	2824.4	2783.4	2746.4	2643.8	2606.9	2496.0	2483.7	2475.5
57.5°	15008.9	11880.7	3415.6	2730.0	2689.0	2656.1	2594.5	2504.2	2430.3	2385.2	2405.7
60°	14220.7	11121.2	3259.6	2586.3	2578.1	2516.5	2430.3	2389.3	2299.0	2245.6	2233.3
62.5°	10571.1	7549.6	2643.8	2401.6	2397.5	2331.8	2233.3	2188.1	2171.7	2097.8	2097.8
65°	6088.1	4733.4	2286.6	2249.7	2216.9	2151.2	2052.6	2015.7	1974.6	1950.0	1929.5
67.5°	2598.6	2455.0	2077.3	2073.2	2036.2	1954.1	1855.6	1798.1	1744.7	1695.5	1720.1
70°	1884.3	1913.1	1876.1	1855.6	1810.4	1707.8	1621.6	1551.8	1469.7	1436.8	1461.5
72.5°	1494.3	1555.9	1609.3	1613.4	1560.0	1441.0	1346.5	1252.1	1161.8	1116.6	1137.2
75°	1133.1	1174.1	1227.5	1239.8	1161.8	1079.7	989.4	890.8	821.1	767.7	775.9
77.5°	817.0	808.7	858.0	849.8	812.8	755.4	673.3	583.0	504.9	455.7	459.8
80°	558.3	570.6	599.4	595.3	550.1	513.2	451.6	377.7	320.2	279.2	270.9
82.5°	390.0	410.5	435.2	414.6	377.7	340.7	295.6	242.2	197.1	164.2	156.0
85°	139.6	160.1	184.7	197.1	209.4	201.2	168.3	135.5	98.5	82.1	78.0
87.5°	28.7	32.8	36.9	36.9	36.9	32.8	28.7	28.7	24.6	12.3	12.3
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)