

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: P531978

Luminaire Tested: **GALN-SA7B-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33530 lumens
Efficiency: N/A
Efficacy: 117.2 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

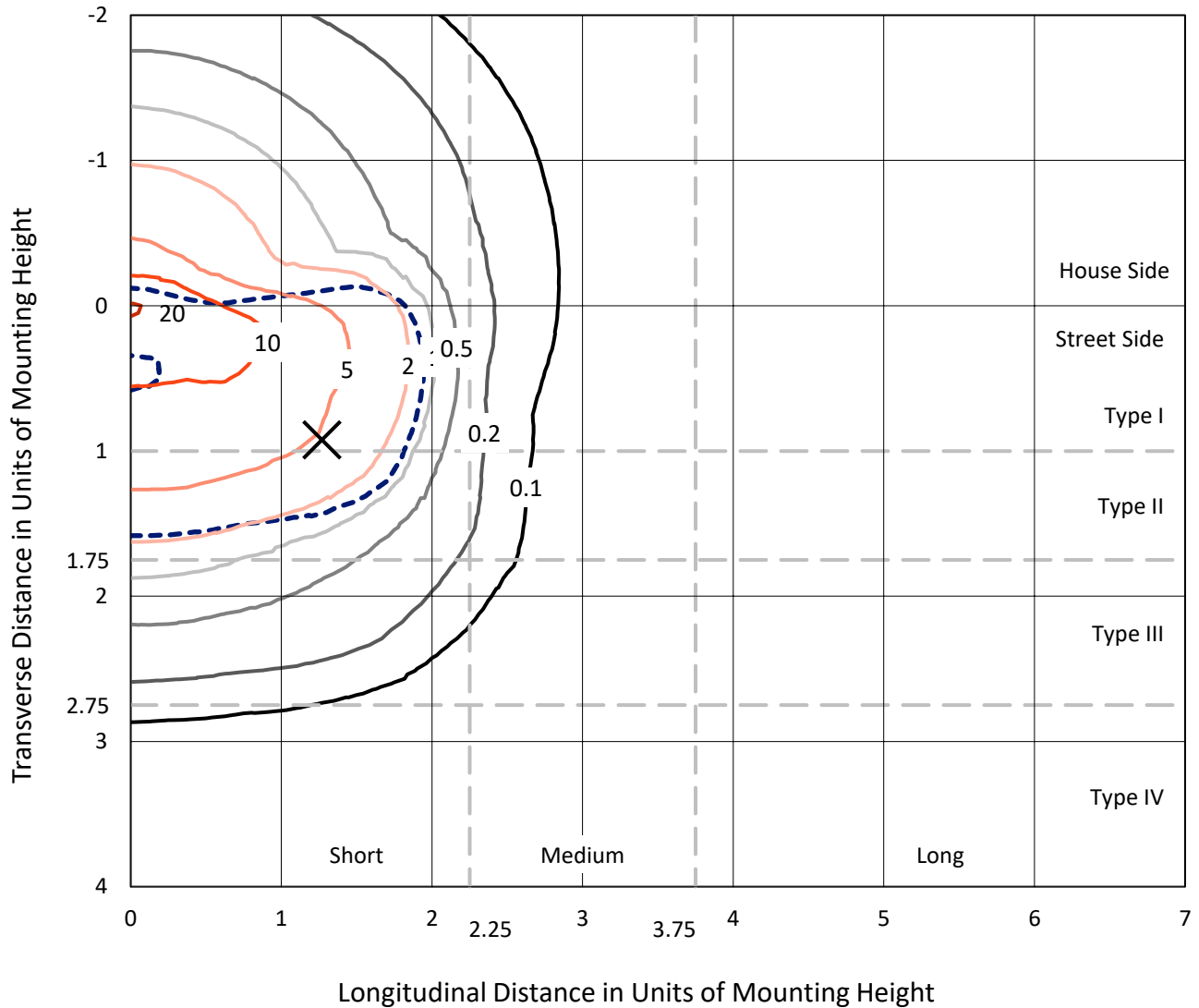
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

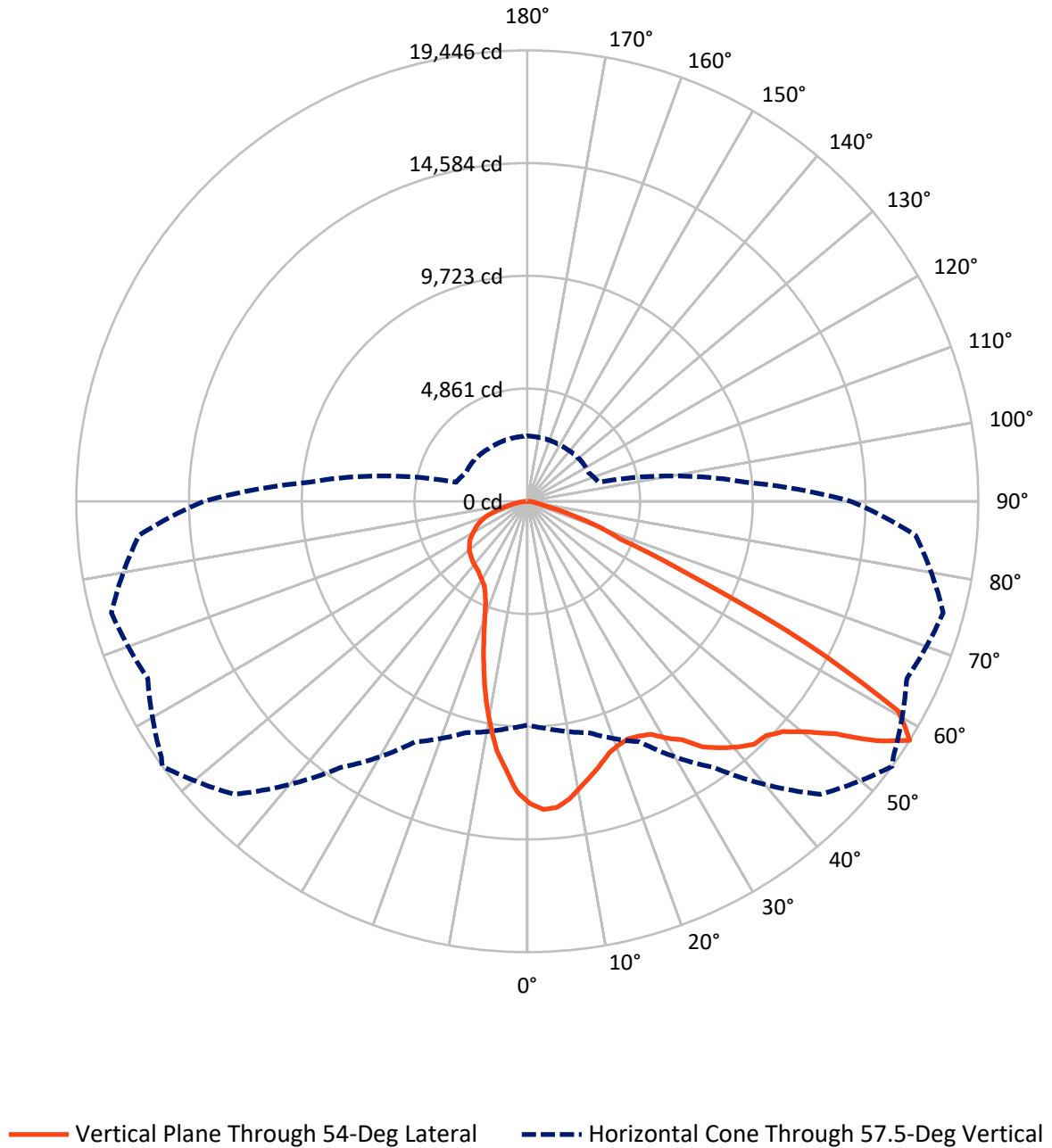
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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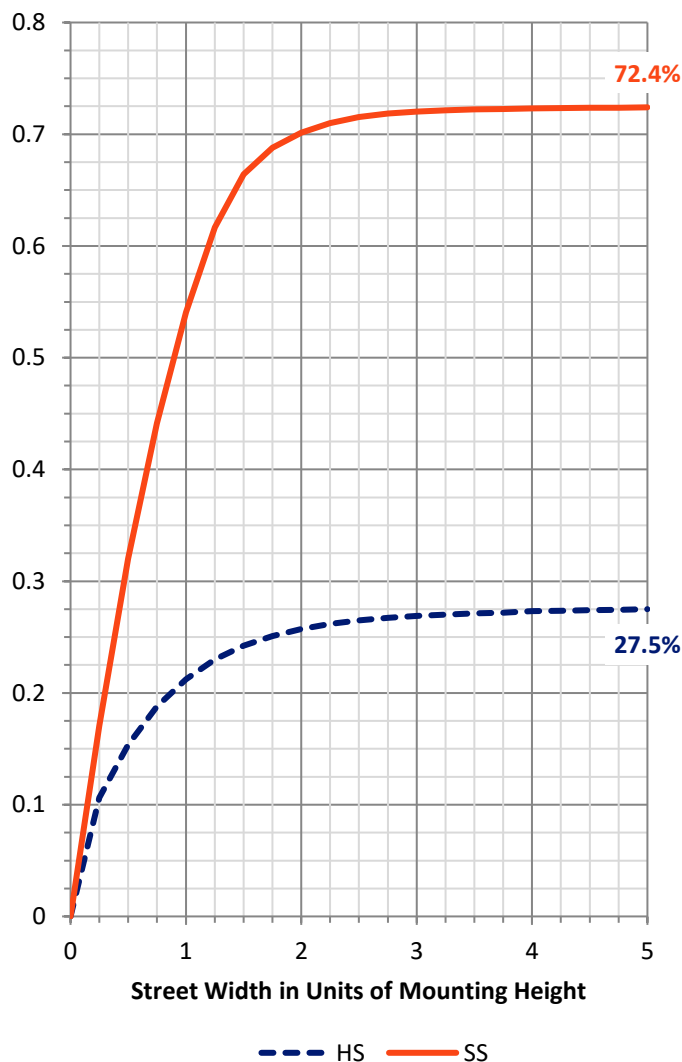
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9276.3	0.0	9276.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	24253.7	0.0	24253.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	33530.0	0.0	33530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1123.9	3.4
10°-20°	2602.3	7.8
20°-30°	3656.3	10.9
30°-40°	5111.6	15.2
40°-50°	6920.1	20.6
50°-60°	8429.0	25.1
60°-70°	4390.2	13.1
70°-80°	1124.9	3.4
80°-90°	171.6	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°	33530.0	100.0
0°-180°	33530.0	100.0

Coefficient of Utilization

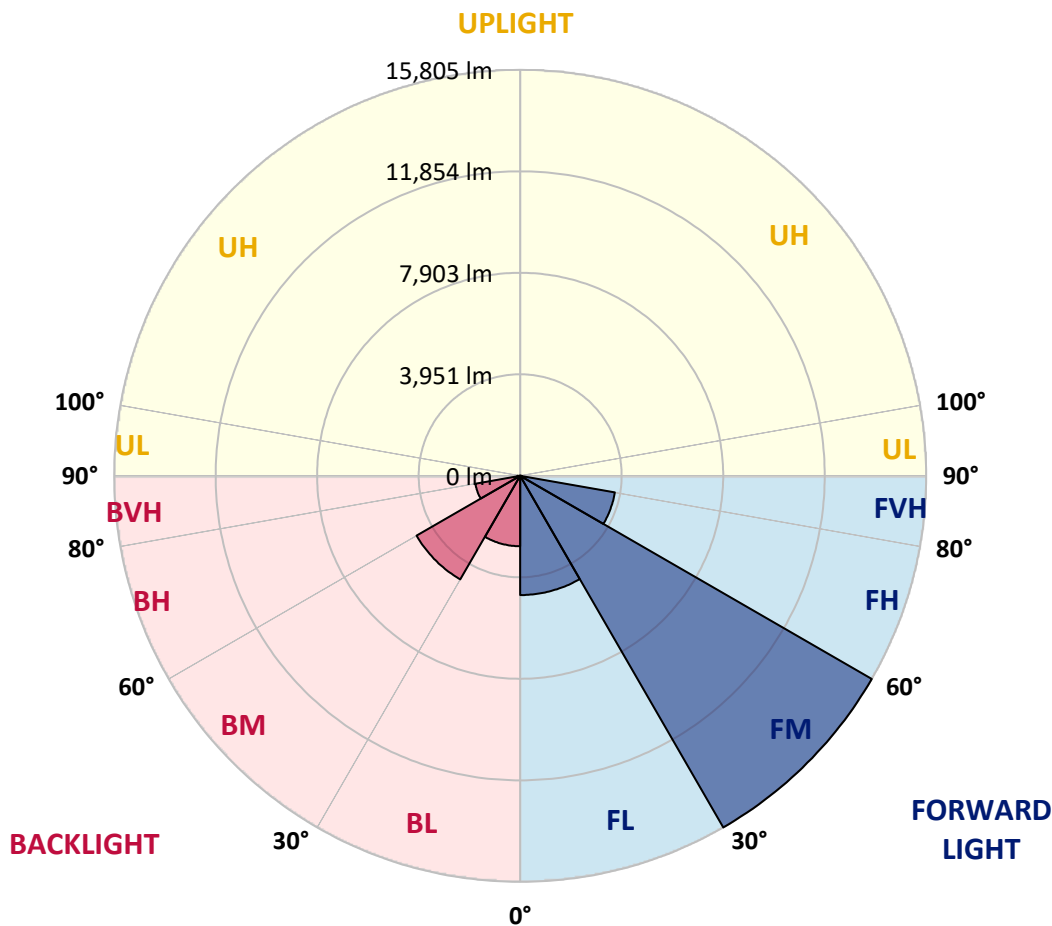


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4641.0	13.8			
FM (30°-60°)	15805.0	47.1			
FH (60°-80°)	3742.9	11.2			G2/5000
FVH (80°-90°)	64.8	0.2			G1/100
BL (0°-30°)	2741.6	8.2	B4/5000		
BM (30°-60°)	4655.7	13.9	B3/5000		
BH (60°-80°)	1772.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.8	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°	54°	55°	65°	75°	85°
0°	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7
2.5°	13403.4	13351.6	13360.3	13429.2	13343.0	13308.6	13308.6	13140.5	13153.4	13037.0	13006.9
5°	13093.1	12972.4	13054.3	13157.7	13174.9	13209.4	13265.5	13222.4	13101.7	12976.7	12774.1
7.5°	12282.8	12390.6	12420.7	12494.0	12649.2	12791.4	12968.1	12847.4	12843.1	12718.1	12597.4
10°	11571.7	11507.1	11670.8	11778.6	12037.2	12274.2	12545.7	12532.8	12597.4	12455.2	12248.3
12.5°	10864.9	10813.2	10890.8	11136.4	11498.5	11843.2	12166.5	12045.8	12390.6	12364.7	11920.8
15°	10115.0	10153.8	10265.9	10494.3	10968.3	11382.1	11791.5	11795.8	12101.8	12205.3	11610.5
17.5°	9589.2	9546.1	9688.3	10028.8	10451.2	10946.8	11412.3	11507.1	11976.8	12037.2	11515.7
20°	9197.0	9257.4	9442.7	9615.1	10102.1	10701.1	11226.9	11261.4	11951.0	12114.7	11364.8
22.5°	9102.2	9067.7	9128.1	9408.2	9809.0	10459.8	11127.8	11257.1	11946.7	12088.9	11080.4
25°	9003.1	9115.2	9110.8	9391.0	9684.0	10265.9	11209.7	11351.9	12175.1	12222.5	11119.2
27.5°	9227.2	9214.3	9334.9	9356.5	9718.5	10317.6	11382.1	11489.8	12554.3	12515.6	11149.4
30°	9451.3	9386.7	9459.9	9714.2	9882.3	10614.9	11856.2	11847.5	13045.7	13019.8	11244.2
32.5°	9727.1	9697.0	9744.4	9968.5	10252.9	11011.4	12257.0	12511.2	13545.6	13709.4	11571.7
35°	9778.9	9903.8	10015.9	10317.6	10722.7	11653.6	13011.2	13222.4	14123.1	14636.0	12196.6
37.5°	10106.4	10153.8	10416.7	10951.1	11321.8	12511.2	13489.6	13623.2	14648.9	15230.7	12856.0
40°	10455.5	10511.5	10908.0	11468.3	11976.8	13071.5	13937.8	13980.9	14817.0	15687.5	13287.0
42.5°	10929.6	10981.3	11373.5	12076.0	12756.9	13549.9	14334.3	14381.7	14804.0	16213.3	13972.3
45°	11420.9	11545.9	12007.0	12804.3	13416.3	14110.2	14424.8	14618.7	14924.7	16683.1	14528.2
47.5°	12110.4	12226.8	12606.1	13386.1	14101.5	14601.5	14842.8	15032.5	15213.5	17092.5	14885.9
50°	12843.1	12864.6	13325.8	14032.6	14558.4	15157.4	15622.9	15687.5	15592.7	17566.6	15493.6
52.5°	13381.8	13450.8	13808.5	14498.0	15282.4	16019.4	16657.2	16726.2	16540.9	17743.3	15700.5
55°	12489.7	12450.9	13032.7	13950.7	15769.4	17303.7	18230.3	18282.0	17230.4	18290.6	16377.1
57.5°	9653.9	9839.2	10334.8	11442.4	14011.0	17872.6	19445.7	19260.3	18057.9	18566.5	16808.1
60°	7016.3	6973.2	7305.1	8046.3	10558.9	15403.1	18385.5	18575.1	17381.3	16734.8	13860.2
62.5°	5714.7	5654.4	5680.3	5706.1	6813.7	10222.8	13610.2	13605.9	13386.1	12028.6	9347.9
65°	4568.4	4710.6	4723.5	4917.4	5059.7	6106.9	7886.9	8309.2	7236.1	5934.5	4305.5
67.5°	3443.5	3391.8	3564.2	4253.7	4520.9	4408.9	4305.5	4352.9	3094.4	2232.5	2103.2
70°	2029.9	2008.4	2215.2	2965.1	3723.6	3503.8	3245.3	3249.6	2124.7	1560.1	1736.8
72.5°	1111.9	1107.6	1150.7	1504.1	2116.1	2198.0	1948.0	2008.4	1267.1	1262.8	1357.6
75°	620.6	607.7	594.7	663.7	762.8	805.9	823.2	831.8	870.6	974.0	1012.8
77.5°	228.4	219.8	219.8	254.3	323.2	405.1	512.9	521.5	616.3	706.8	745.6
80°	77.6	86.2	116.4	159.5	215.5	288.8	349.1	357.7	435.3	495.6	508.6
82.5°	47.4	51.7	77.6	112.1	155.2	202.6	258.6	262.9	323.2	362.0	379.3
85°	21.5	25.9	43.1	69.0	99.1	133.6	137.9	137.9	133.6	137.9	129.3
87.5°	0.0	0.0	8.6	8.6	8.6	12.9	17.2	12.9	21.5	25.9	25.9
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°	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7	13032.7
2.5°	12916.4	12869.0	12722.4	12593.1	12554.3	12382.0	12127.7	12157.8	11972.5	12058.7	11968.2
5°	12739.7	12580.2	12205.3	12045.8	11627.7	11438.1	11308.8	10985.6	10834.7	10804.6	10675.3
7.5°	12287.1	12188.0	11718.2	11287.3	10843.4	10464.1	9977.1	9645.3	9408.2	9343.6	9153.9
10°	11929.4	11709.6	11058.9	10403.8	9770.2	9110.8	8477.3	7981.7	7740.3	7460.2	7365.4
12.5°	11576.0	11244.2	10365.0	9524.6	8705.7	7873.9	7106.8	6503.4	5977.6	5852.7	5809.6
15°	11356.2	10778.7	9744.4	8731.6	7567.9	6481.9	5714.7	5318.2	4995.0	4861.4	4956.2
17.5°	11067.5	10395.2	9149.6	7800.7	6520.7	5520.8	4878.7	4633.0	4516.6	4529.6	4490.8
20°	10705.5	10033.1	8369.6	6956.0	5585.5	4788.1	4421.8	4331.3	4348.6	4378.7	4365.8
22.5°	10446.9	9593.5	7805.0	6094.0	4826.9	4383.0	4232.2	4167.5	4223.6	4249.4	4227.9
25°	10248.6	9218.6	7119.7	5331.2	4387.3	4154.6	4085.7	4081.3	4167.5	4202.0	4180.5
27.5°	10067.6	8869.5	6438.8	4749.4	4094.3	3977.9	3956.4	4008.1	4064.1	4098.6	4128.8
30°	9959.9	8602.3	5800.9	4262.4	3947.7	3891.7	3852.9	3900.3	3930.5	3965.0	3947.7
32.5°	10063.3	8412.7	5184.6	3986.5	3827.1	3771.0	3822.8	3792.6	3844.3	3874.5	3827.1
35°	10386.5	8244.6	4745.1	3840.0	3689.2	3710.7	3719.3	3706.4	3727.9	3702.1	3758.1
37.5°	10705.5	8184.2	4339.9	3715.0	3624.5	3624.5	3615.9	3590.0	3633.1	3624.5	3650.4
40°	11110.6	8223.0	3995.2	3581.4	3564.2	3555.6	3521.1	3516.8	3499.5	3503.8	3512.5
42.5°	11464.0	8309.2	3796.9	3495.2	3508.1	3525.4	3460.7	3409.0	3430.6	3387.5	3387.5
45°	11838.9	8386.8	3620.2	3434.9	3422.0	3417.6	3365.9	3335.8	3318.5	3322.8	3361.6
47.5°	12429.4	8498.9	3486.6	3353.0	3361.6	3297.0	3284.0	3245.3	3262.5	3288.4	3292.7
50°	12847.4	8735.9	3383.2	3258.2	3288.4	3245.3	3167.7	3150.4	3150.4	3193.5	3184.9
52.5°	13140.5	9067.7	3284.0	3154.7	3167.7	3133.2	3107.3	3068.6	3042.7	3103.0	3133.2
55°	14036.9	9619.4	3258.2	3068.6	3064.2	3029.8	2982.4	2943.6	2930.6	2939.3	2999.6
57.5°	13950.7	9447.0	3176.3	2917.7	2909.1	2861.7	2814.3	2801.3	2797.0	2805.7	2822.9
60°	11326.1	6977.5	2835.8	2745.3	2732.4	2723.8	2676.4	2624.6	2598.8	2624.6	2603.1
62.5°	7494.7	4671.8	2499.7	2538.5	2547.1	2525.5	2447.9	2396.2	2404.8	2435.0	2387.6
65°	3680.5	2745.3	2266.9	2370.4	2379.0	2318.7	2245.4	2185.1	2154.9	2180.7	2159.2
67.5°	2103.2	2098.9	2077.3	2185.1	2180.7	2120.4	2004.0	1952.3	1900.6	1909.2	1896.3
70°	1784.2	1818.7	1861.8	1926.5	1922.2	1853.2	1715.3	1676.5	1603.2	1594.6	1573.1
72.5°	1405.0	1465.3	1560.1	1607.5	1568.8	1482.6	1392.1	1327.4	1262.8	1224.0	1236.9
75°	1043.0	1129.2	1180.9	1211.0	1150.7	1103.3	1030.0	952.5	874.9	840.4	827.5
77.5°	758.5	784.4	831.8	853.3	814.5	767.1	724.0	646.5	573.2	525.8	512.9
80°	530.1	547.3	581.8	581.8	581.8	560.3	504.2	426.7	379.3	336.2	327.5
82.5°	370.6	387.9	422.4	405.1	400.8	374.9	340.5	280.1	228.4	198.2	189.6
85°	129.3	142.2	172.4	206.9	219.8	215.5	193.9	155.2	120.7	99.1	90.5
87.5°	30.2	30.2	34.5	30.2	30.2	34.5	30.2	30.2	30.2	21.5	17.2
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)