

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: P531972

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35763 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

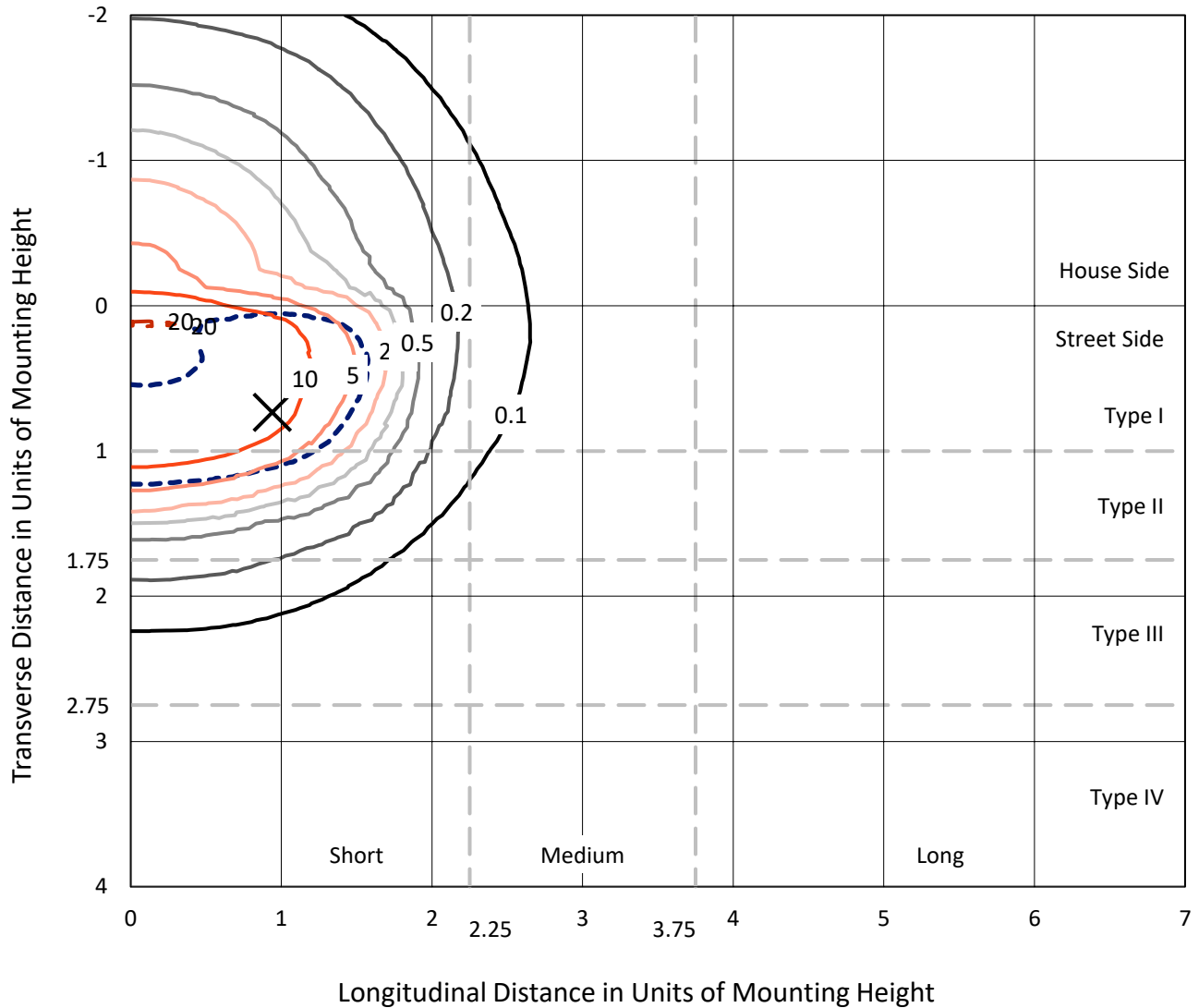
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

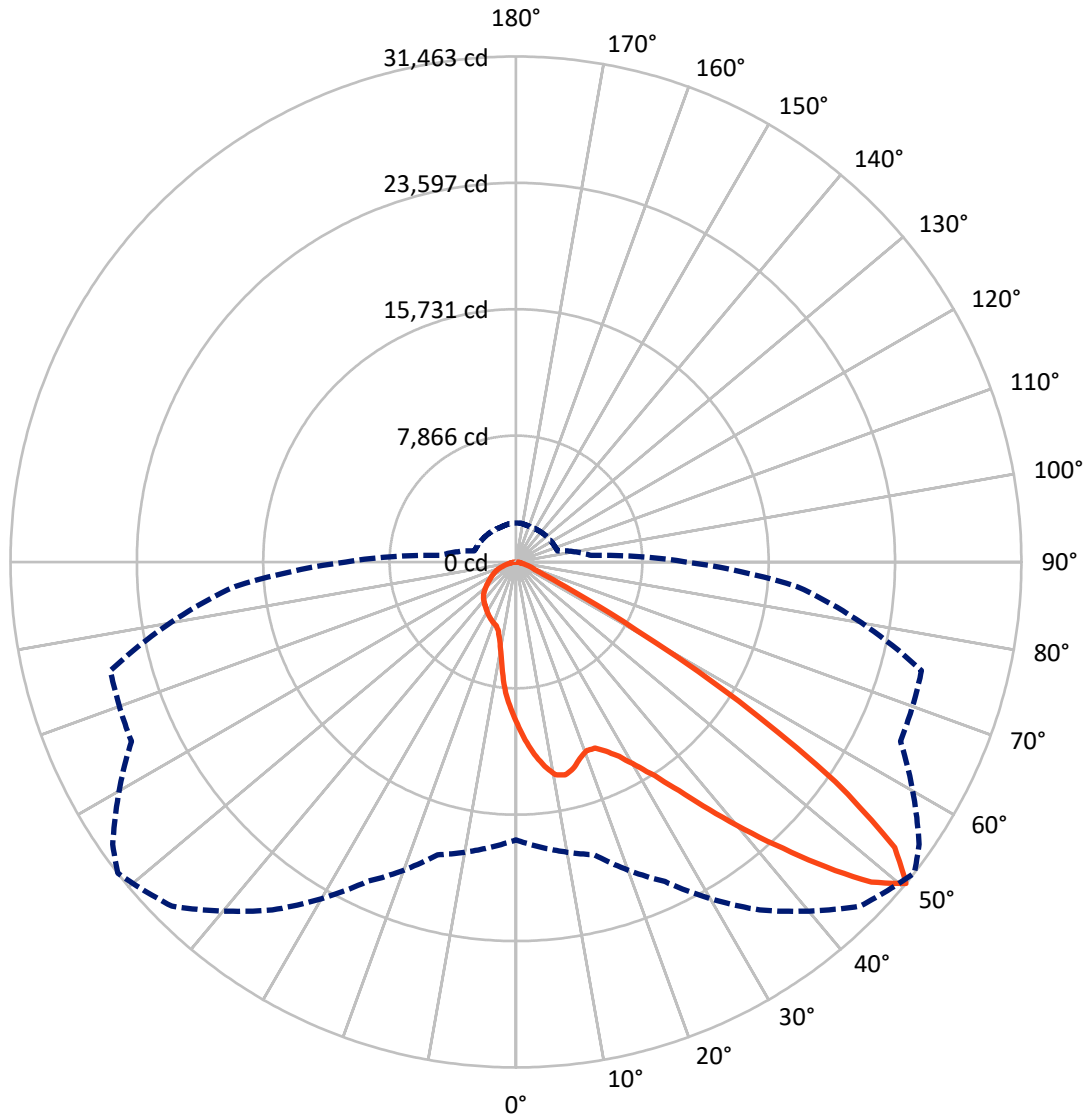
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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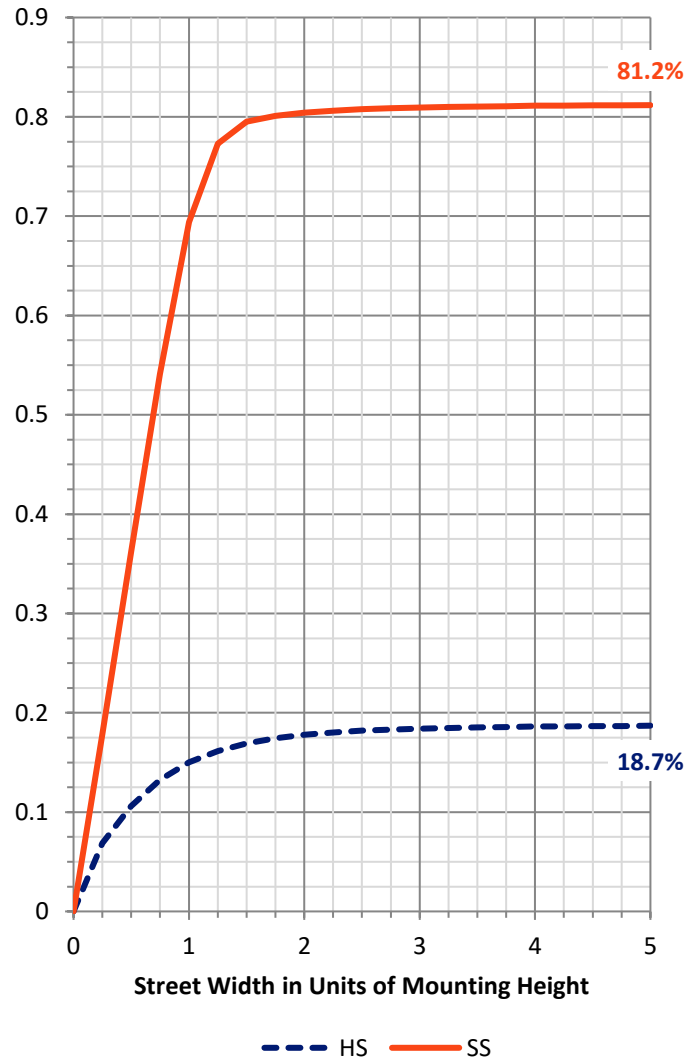
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6722.6	0.0	6722.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29040.4	0.0	29040.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	35763.0	0.0	35763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.2	2.6
10°-20°	2490.4	7.0
20°-30°	4195.0	11.7
30°-40°	7039.5	19.7
40°-50°	10768.7	30.1
50°-60°	7851.2	22.0
60°-70°	1747.3	4.9
70°-80°	630.2	1.8
80°-90°	111.5	0.3
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°	35763.0	100.0
0°-180°	35763.0	100.0

Coefficient of Utilization



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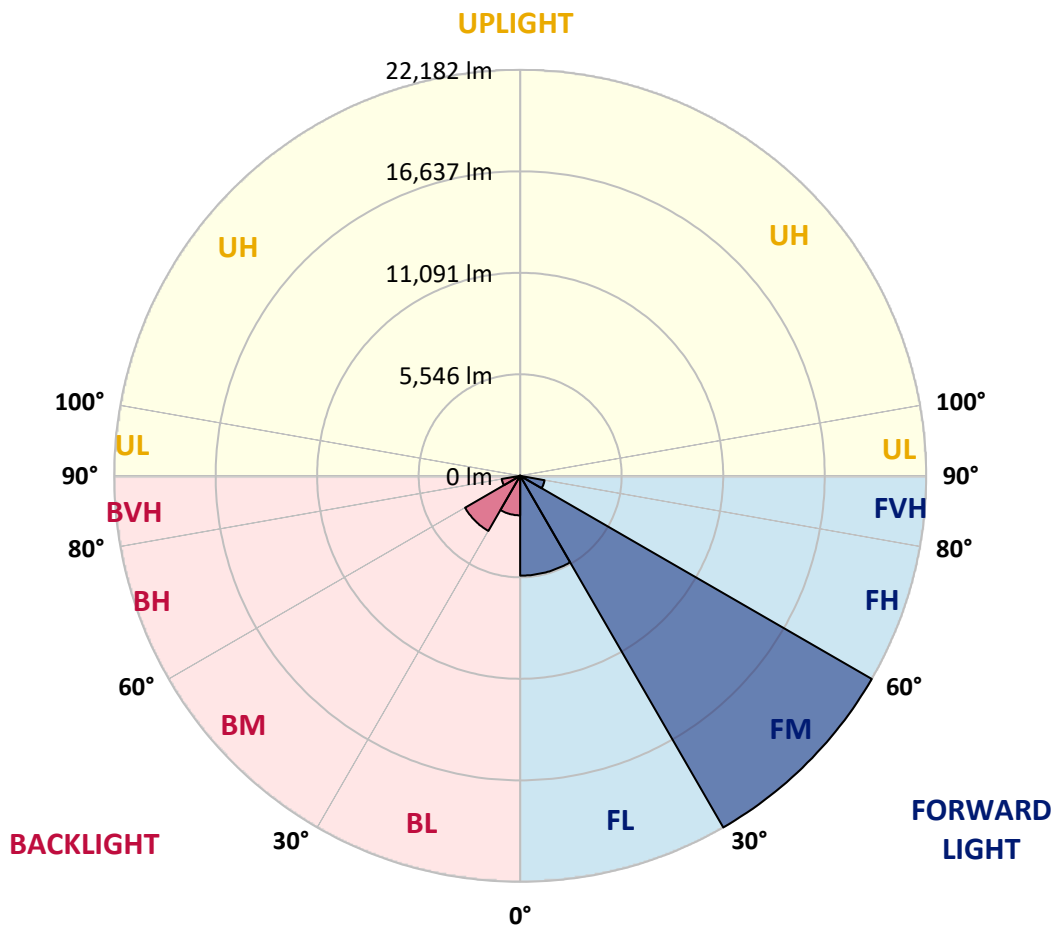
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5455.1	15.3			
FM (30°-60°)	22182.0	62.0			
FH (60°-80°)	1353.3	3.8			G1/1800
FVH (80°-90°)	50.0	0.1			G1/100
BL (0°-30°)	2159.4	6.0	B3/2500		
BM (30°-60°)	3477.4	9.7	B3/5000		
BH (60°-80°)	1024.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	61.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0
2.5°	11869.6	11641.2	11667.1	11503.3	11326.6	11274.9	11093.8	10921.4	10792.1	10516.3	10262.0
5°	12973.0	12904.0	12800.6	12671.3	12537.7	12210.1	12024.8	11809.3	11335.2	10908.5	10486.1
7.5°	13132.4	13119.5	13175.5	13175.5	13223.0	13098.0	12835.1	12684.2	12179.9	11486.0	10701.6
10°	12011.9	12050.6	12322.2	12675.6	13166.9	13507.4	13464.3	13425.5	12873.9	11925.7	10955.9
12.5°	11119.7	11033.5	11193.0	11494.7	12231.7	13054.9	13610.9	13615.2	13472.9	12628.2	11141.2
15°	10615.4	10675.8	10718.9	10861.1	11417.1	12369.6	13347.9	13636.7	14261.7	13123.8	11434.3
17.5°	10938.7	10736.1	10727.5	10762.0	11046.4	11761.9	12860.9	13356.6	14692.7	13761.7	11796.4
20°	11361.1	11356.7	11236.1	11193.0	11188.7	11826.5	12542.0	13214.3	14921.1	14589.2	12162.7
22.5°	12102.4	12102.4	11904.1	11809.3	11606.7	12128.2	12585.1	13041.9	15300.4	15158.1	12339.4
25°	13343.6	13141.1	12800.6	12567.8	12451.5	12636.8	13041.9	13451.4	15632.2	15761.5	12705.8
27.5°	14490.1	14171.1	14003.1	13602.2	13447.1	13339.3	13710.0	14123.7	16020.1	16701.1	12904.0
30°	15791.7	15735.7	15434.0	14916.8	14533.2	14334.9	14675.4	15084.9	16731.3	17662.2	13360.9
32.5°	18119.1	17610.5	17201.1	16567.5	15942.5	15520.2	15856.3	16127.9	17912.2	18666.4	13860.8
35°	20631.8	20468.0	19761.2	18619.0	17662.2	17282.9	17481.2	17683.8	19287.1	20200.8	14701.3
37.5°	23101.4	22877.3	22295.4	21334.3	20170.6	19399.1	19541.4	19778.4	20830.0	22269.6	15727.0
40°	24877.1	24601.3	24308.2	24165.9	23010.9	21954.9	21873.0	21933.4	22916.1	24209.0	16864.9
42.5°	25006.4	25346.9	25437.4	26010.6	25739.1	24872.8	24368.5	24381.4	24907.3	26127.0	18015.6
45°	24734.9	24420.2	25088.3	26652.8	27549.3	27954.4	27105.3	26997.6	26139.9	27238.9	18588.9
47.5°	21886.0	21972.2	23101.4	25575.3	28165.6	29975.8	29777.5	29419.8	26799.3	27200.2	18498.3
50°	17300.2	17821.7	18869.0	21950.6	26441.6	30294.7	31462.7	30635.2	26407.1	26131.3	17576.0
52.5°	11520.5	11736.0	12425.6	16403.7	21261.0	27079.5	29523.2	29712.9	26045.1	24730.6	16408.0
55°	5128.9	5111.6	6081.4	8568.2	13339.3	20605.9	24122.8	25277.9	24653.0	23304.0	15270.2
57.5°	2172.2	2245.5	2642.0	3702.3	6559.8	12434.2	16343.4	17356.2	18959.5	19136.2	11714.5
60°	1469.7	1478.3	1586.1	1853.3	2745.4	5840.0	8572.5	9787.9	10934.4	10856.8	6215.0
62.5°	1155.1	1185.2	1267.1	1374.9	1629.2	2650.6	3835.9	4512.5	4585.8	3857.4	2357.5
65°	987.0	991.3	1073.2	1163.7	1275.7	1543.0	1849.0	1883.5	1905.0	1836.0	1732.6
67.5°	814.6	823.2	887.9	991.3	1094.7	1180.9	1267.1	1310.2	1409.4	1603.3	1577.4
70°	646.5	659.4	715.5	801.7	896.5	948.2	1055.9	1094.7	1185.2	1336.1	1396.4
72.5°	491.3	495.6	543.1	603.4	689.6	741.3	831.8	874.9	935.3	1064.6	1120.6
75°	353.4	366.3	400.8	431.0	443.9	478.4	564.6	612.0	698.2	754.2	758.6
77.5°	185.3	193.9	202.6	202.6	245.7	310.3	366.3	392.2	452.5	495.6	474.1
80°	73.3	77.6	99.1	133.6	172.4	224.1	262.9	275.8	327.6	353.4	366.3
82.5°	43.1	47.4	64.6	94.8	125.0	159.5	189.6	202.6	237.0	267.2	275.8
85°	21.5	25.9	38.8	60.3	81.9	99.1	94.8	90.5	90.5	86.2	90.5
87.5°	8.6	8.6	12.9	12.9	12.9	17.2	21.5	21.5	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°	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0	10081.0
2.5°	10093.9	9921.5	9762.1	9469.0	9150.0	9059.5	8688.9	8555.3	8460.5	8348.4	8313.9
5°	10145.6	9917.2	9404.3	8813.9	8344.1	7740.7	7344.2	6917.5	6607.2	6529.6	6508.0
7.5°	10253.4	9861.2	8977.6	8085.5	7124.4	6305.5	5680.5	5344.4	5047.0	5029.7	4999.6
10°	10374.1	9693.1	8512.2	7111.4	5883.1	5124.5	4749.6	4603.0	4529.8	4512.5	4503.9
12.5°	10473.2	9658.6	7990.7	6163.2	5003.9	4547.0	4434.9	4422.0	4452.2	4460.8	4478.0
15°	10516.3	9520.7	7361.4	5314.2	4456.5	4288.4	4335.8	4387.5	4409.1	4465.1	4422.0
17.5°	10598.2	9344.0	6585.6	4641.8	4150.5	4180.7	4262.6	4322.9	4357.4	4396.2	4340.1
20°	10641.3	9184.5	5857.2	4241.0	4042.7	4098.8	4210.8	4258.2	4301.3	4318.6	4253.9
22.5°	10602.5	8857.0	5215.1	3917.8	3939.3	4012.6	4111.7	4163.4	4137.6	4068.6	4029.8
25°	10499.1	8395.8	4547.0	3710.9	3792.8	3922.1	3999.6	3960.9	3913.4	3874.7	3861.7
27.5°	10494.8	7831.2	4064.3	3521.2	3667.8	3844.5	3818.6	3784.1	3805.7	3775.5	3741.0
30°	10516.3	7283.8	3667.8	3413.5	3577.3	3663.5	3693.6	3659.2	3685.0	3629.0	3646.2
32.5°	10404.2	6749.4	3409.2	3288.5	3469.5	3465.2	3564.3	3590.2	3529.9	3413.5	3430.7
35°	10451.7	6318.4	3189.4	3232.5	3348.8	3348.8	3426.4	3396.2	3236.8	3167.8	3185.1
37.5°	10779.2	5896.0	3081.6	3154.9	3232.5	3266.9	3241.1	3111.8	3073.0	3073.0	3081.6
40°	11089.5	5534.0	3017.0	3137.7	3124.7	3146.3	2956.6	2969.6	2969.6	2973.9	2952.3
42.5°	11365.4	5288.3	2965.3	3034.2	3055.8	2943.7	2827.3	2814.4	2844.6	2840.3	2823.0
45°	11464.5	5085.8	2892.0	2917.8	2935.1	2749.8	2693.7	2667.9	2702.3	2715.3	2732.5
47.5°	11085.2	4917.7	2810.1	2758.4	2723.9	2603.2	2529.9	2482.5	2525.6	2598.9	2616.1
50°	10598.2	4697.9	2680.8	2581.7	2508.4	2456.7	2405.0	2357.5	2387.7	2439.4	2426.5
52.5°	9878.4	4353.1	2517.0	2413.6	2288.6	2301.5	2254.1	2228.2	2245.5	2245.5	2232.6
55°	8852.7	3577.3	2241.2	2167.9	2064.5	2099.0	2107.6	2073.1	2038.6	2068.8	2042.9
57.5°	6042.6	2525.6	1999.8	1999.8	1896.4	1943.8	1939.5	1857.6	1775.7	1784.3	1767.1
60°	3495.4	2012.8	1844.7	1827.4	1719.7	1758.5	1767.1	1711.1	1586.1	1594.7	1577.4
62.5°	1986.9	1719.7	1611.9	1586.1	1564.5	1599.0	1599.0	1525.7	1418.0	1426.6	1409.4
65°	1689.5	1594.7	1439.5	1435.2	1426.6	1435.2	1400.7	1323.2	1228.3	1189.5	1193.9
67.5°	1534.3	1474.0	1323.2	1284.4	1258.5	1254.2	1189.5	1116.3	1073.2	1038.7	1034.4
70°	1344.7	1297.3	1185.2	1133.5	1107.7	1047.3	982.7	935.3	874.9	857.7	874.9
72.5°	1064.6	1060.3	1017.2	961.1	905.1	857.7	801.7	737.0	681.0	668.0	637.9
75°	737.0	745.6	754.2	745.6	698.2	637.9	573.2	521.5	452.5	413.8	405.1
77.5°	482.7	495.6	508.6	491.3	461.2	405.1	362.0	297.4	245.7	215.5	211.2
80°	353.4	370.7	379.3	366.3	331.9	288.8	241.4	189.6	150.8	125.0	125.0
82.5°	271.5	288.8	297.4	275.8	241.4	206.9	172.4	133.6	103.4	81.9	77.6
85°	94.8	90.5	107.7	112.1	133.6	125.0	103.4	77.6	60.3	43.1	38.8
87.5°	25.9	25.9	30.2	30.2	25.9	21.5	21.5	21.5	17.2	12.9	12.9
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)