

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639246

Luminaire Tested: GWS-SA5B-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17397.5 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

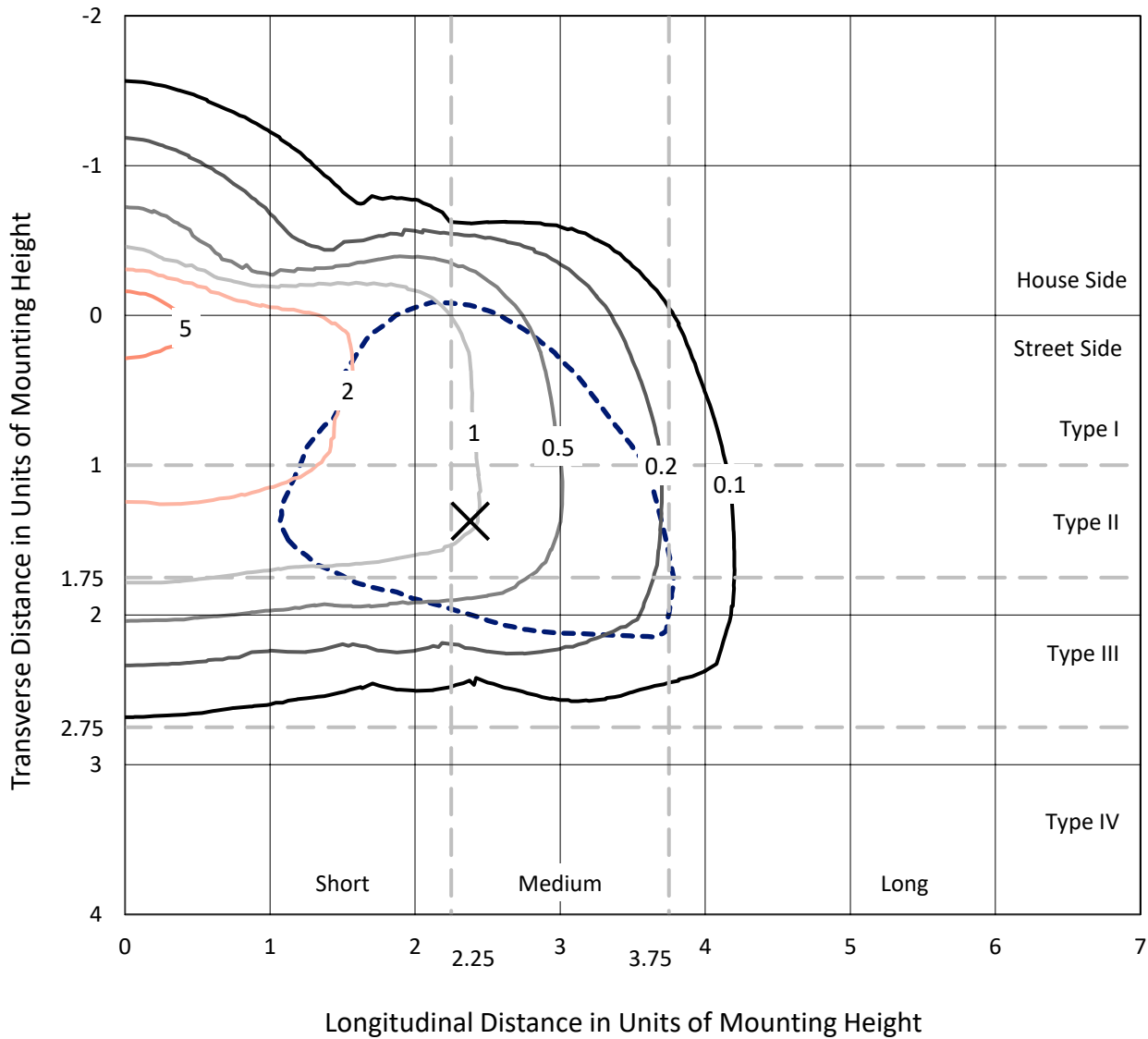
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

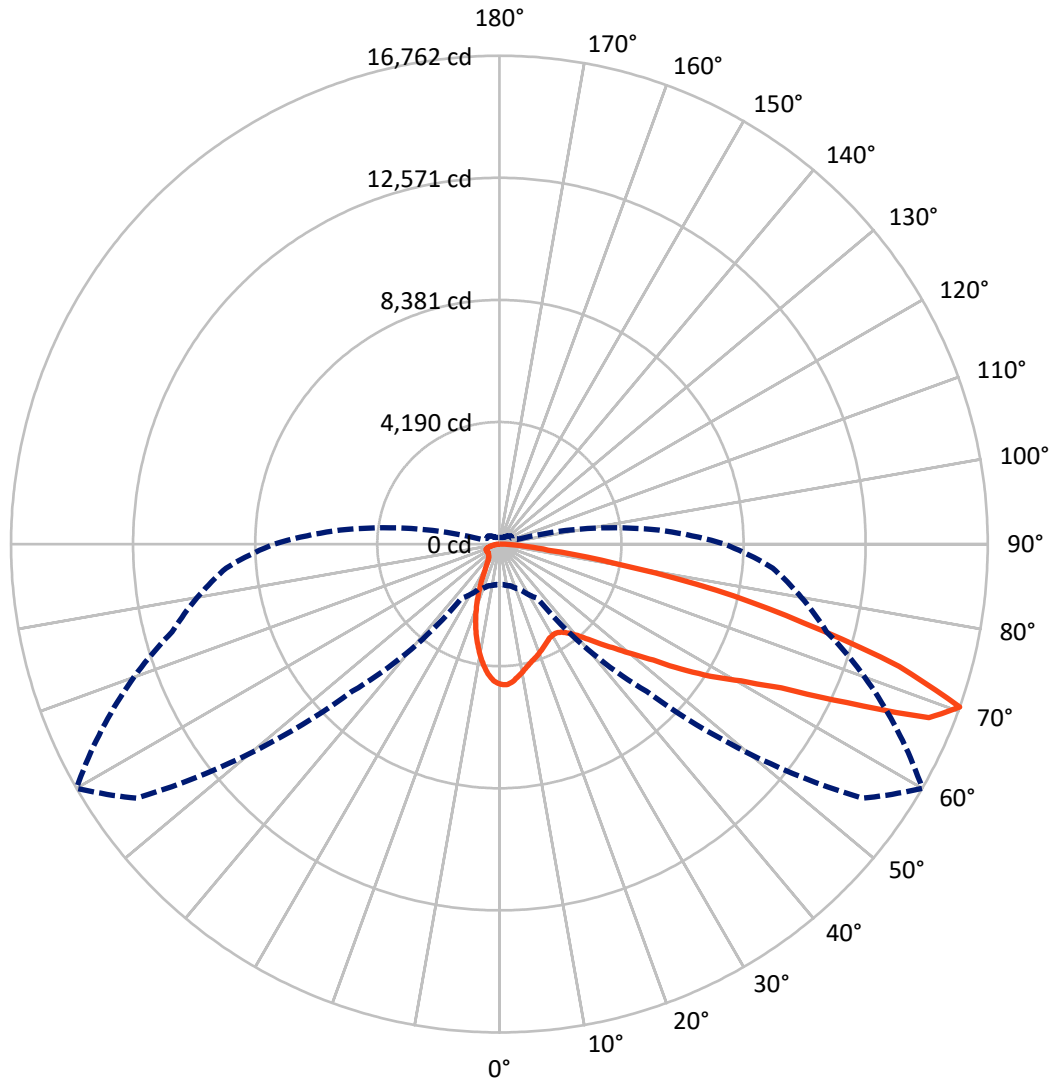
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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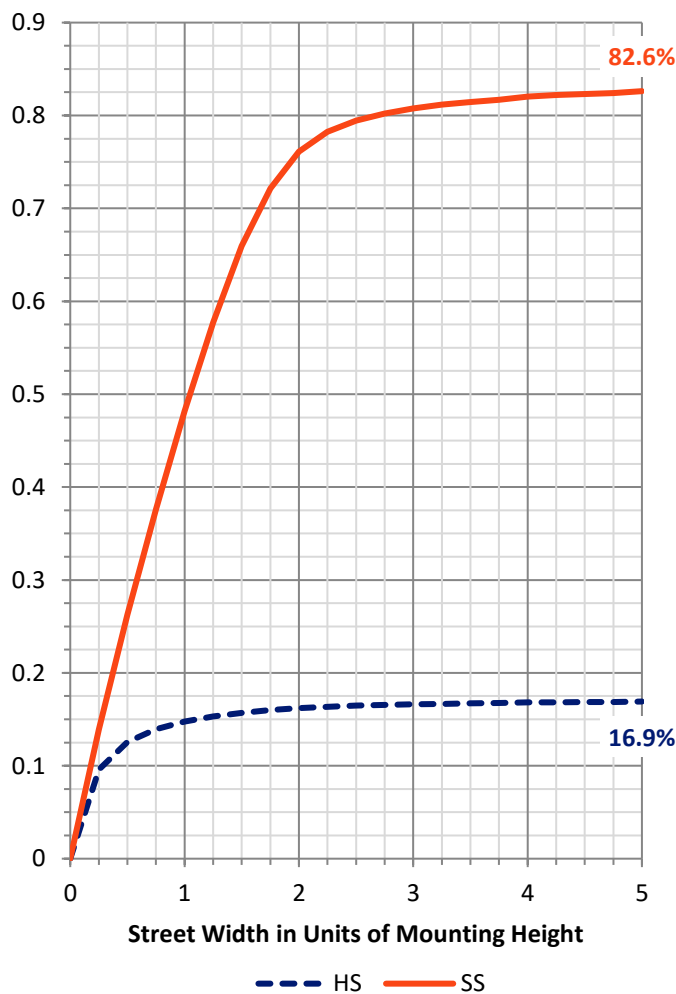
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2975.4	0.0	2975.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14422.1	0.0	14422.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	17397.5	0.0	17397.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.0	2.4
10°-20°	929.6	5.3
20°-30°	1190.6	6.8
30°-40°	1564.7	9.0
40°-50°	2270.1	13.0
50°-60°	3541.9	20.4
60°-70°	4637.0	26.7
70°-80°	2564.1	14.7
80°-90°	284.6	1.6
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°	17397.5	100.0
0°-180°	17397.5	100.0

Coefficient of Utilization



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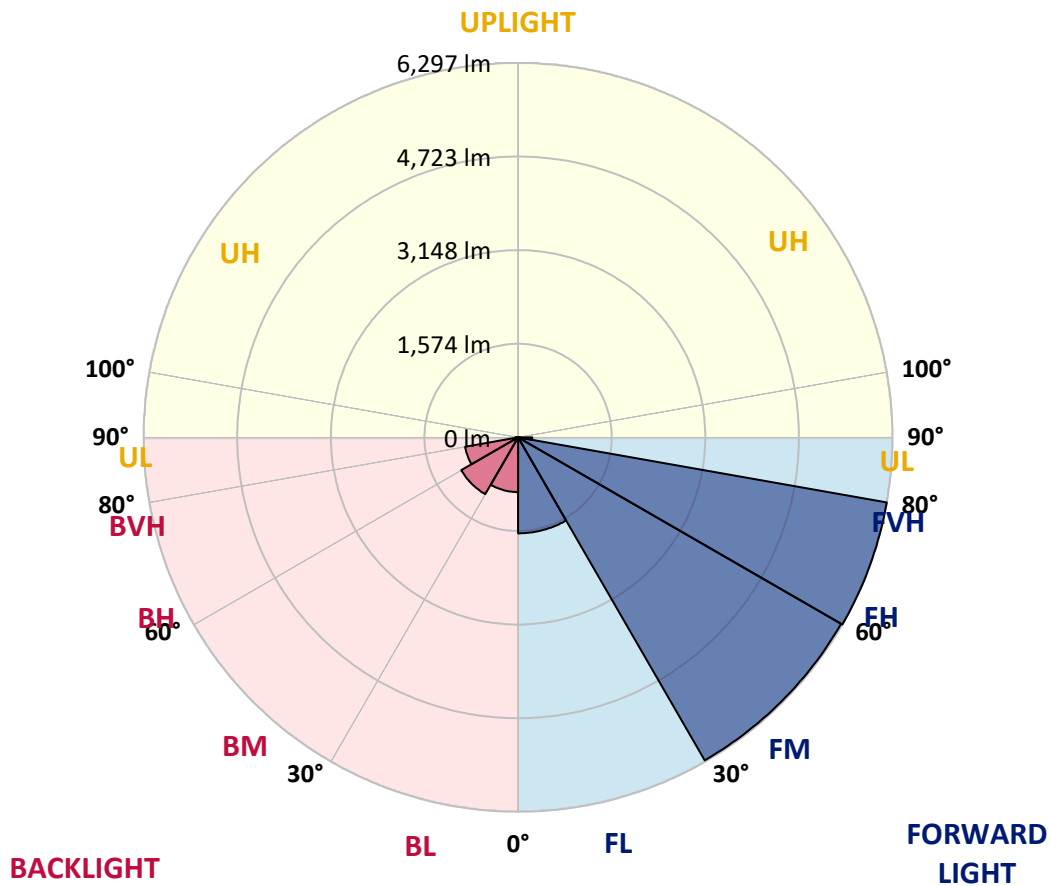
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1614.6	9.3			
FM (30°-60°)	6273.5	36.1			
FH (60°-80°)	6296.9	36.2			G3/7500
FVH (80°-90°)	237.1	1.4			G3/500
BL (0°-30°)	920.5	5.3	B2/1000		
BM (30°-60°)	1103.2	6.3	B2/2500		
BH (60°-80°)	904.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	47.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1
2.5°	4746.6	4751.7	4765.7	4786.1	4806.5	4816.7	4842.1	4834.5	4829.4	4819.2	4806.5
5°	4536.6	4546.8	4559.5	4599.0	4643.5	4679.2	4736.5	4742.8	4745.4	4750.5	4730.1
7.5°	4269.3	4271.9	4302.4	4354.6	4413.1	4474.2	4569.7	4596.4	4619.4	4644.8	4628.3
10°	3974.0	3980.4	4003.3	4078.4	4178.9	4269.3	4397.9	4442.4	4490.8	4546.8	4523.9
12.5°	3732.1	3733.4	3770.3	3850.5	3960.0	4082.2	4242.6	4296.0	4359.7	4447.5	4427.2
15°	3539.9	3539.9	3574.3	3643.0	3769.1	3912.9	4103.8	4172.6	4259.1	4377.5	4341.9
17.5°	3387.2	3388.5	3410.1	3482.7	3594.7	3753.8	3980.4	4073.3	4168.8	4325.3	4271.9
20°	3307.0	3300.6	3304.5	3349.0	3444.5	3598.5	3856.9	3965.1	4093.7	4289.7	4208.2
22.5°	3303.2	3291.7	3275.2	3279.0	3335.0	3462.3	3724.5	3855.6	4017.3	4260.4	4143.3
25°	3368.1	3355.4	3326.1	3293.0	3287.9	3364.3	3599.8	3748.7	3938.4	4247.7	4080.9
27.5°	3477.6	3468.7	3430.5	3380.8	3328.6	3326.1	3505.6	3660.9	3881.1	4260.4	4036.4
30°	3622.7	3607.4	3583.2	3519.6	3440.7	3359.2	3468.7	3613.8	3842.9	4301.1	4017.3
32.5°	3786.9	3778.0	3755.1	3691.4	3607.4	3477.6	3497.9	3624.0	3842.9	4372.4	4021.1
35°	3961.3	3960.0	3960.0	3918.0	3825.1	3663.4	3613.8	3710.5	3901.4	4487.0	4061.8
37.5°	4130.6	4129.3	4170.0	4185.3	4079.6	3905.3	3811.1	3883.6	4030.0	4656.3	4162.4
40°	4268.0	4273.1	4362.2	4438.6	4380.1	4218.4	4086.0	4122.9	4238.8	4896.9	4338.0
42.5°	4406.8	4420.8	4554.4	4689.4	4712.3	4572.3	4438.6	4460.2	4537.9	5215.1	4600.3
45°	4558.3	4564.6	4751.7	4940.1	5050.9	4968.1	4858.7	4887.9	4905.8	5608.4	4991.0
47.5°	4704.6	4721.2	4963.0	5221.4	5431.5	5423.8	5362.7	5353.8	5357.6	6087.0	5453.1
50°	4904.5	4928.7	5212.5	5524.4	5832.4	5973.7	5991.5	5924.1	5896.1	6619.1	6028.5
52.5°	5283.8	5283.8	5538.4	5845.2	6258.9	6608.9	6728.6	6617.8	6528.7	7181.7	6639.5
55°	5758.6	5779.0	5981.4	6229.6	6754.0	7277.2	7682.0	7559.8	7307.7	7794.0	7279.7
57.5°	5969.9	5995.4	6316.1	6701.8	7401.9	8037.1	8598.4	8555.2	8187.3	8430.4	7944.2
60°	5588.0	5641.5	6083.2	6729.8	7988.7	9262.9	9658.8	9532.8	9007.1	9098.7	8664.6
62.5°	4661.4	4719.9	5210.0	6112.5	7907.3	10588.0	11330.1	10865.5	10030.5	9942.6	9624.4
65°	2781.3	2778.7	3368.1	4564.6	6902.9	10955.9	13975.2	13108.3	11611.4	11101.0	10612.2
67.5°	1768.1	1764.2	1887.7	2418.5	4593.9	10054.6	15675.8	15901.1	13758.8	11952.5	10693.6
70°	1395.1	1393.8	1482.9	1724.8	2272.1	7155.0	15202.3	16761.6	15055.9	11628.0	9415.7
72.5°	1017.0	1019.6	1157.1	1444.7	1752.8	3592.1	12310.2	14341.8	13847.9	10264.7	7643.8
75°	730.6	734.5	817.2	1106.2	1616.6	1964.1	8186.0	10784.0	10535.8	8228.0	5258.4
77.5°	464.6	469.7	542.3	775.2	1306.0	1586.0	4963.0	7613.2	7009.9	4635.9	1869.9
80°	283.9	300.4	361.5	577.9	1043.8	1190.2	2480.9	4010.9	3510.7	1271.6	628.8
82.5°	146.4	159.1	217.7	357.7	719.2	1045.1	1404.0	1685.3	1087.1	532.1	334.8
85°	45.8	53.5	76.4	145.1	342.4	647.9	929.2	837.6	499.0	250.8	155.3
87.5°	11.5	11.5	12.7	12.7	14.0	29.3	179.5	189.7	132.4	78.9	63.6
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°	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1	4814.1
2.5°	4781.0	4750.5	4737.7	4736.5	4704.6	4658.8	4628.3	4606.6	4593.9	4591.4	4591.4
5°	4695.7	4656.3	4604.1	4564.6	4479.3	4392.8	4320.2	4279.5	4232.4	4226.0	4224.8
7.5°	4582.4	4525.2	4425.9	4315.1	4166.2	4022.4	3900.2	3817.4	3734.7	3719.4	3714.3
10°	4460.2	4382.6	4213.3	4018.5	3795.8	3580.7	3393.6	3247.2	3150.4	3081.7	3069.0
12.5°	4339.3	4236.2	3988.0	3697.8	3392.3	3098.2	2816.9	2577.6	2404.5	2304.0	2286.1
15°	4226.0	4082.2	3742.3	3371.9	2974.8	2572.5	2174.1	1863.5	1620.4	1533.8	1513.5
17.5°	4122.9	3943.4	3504.3	3034.6	2539.4	2013.7	1560.6	1284.4	1141.8	1098.5	1088.3
20°	4019.8	3800.9	3262.4	2679.5	2077.4	1488.0	1140.5	1010.7	957.2	940.7	935.6
22.5°	3909.1	3644.3	2999.0	2329.4	1610.2	1113.8	933.0	875.8	859.2	860.5	859.2
25°	3798.3	3485.2	2722.7	1948.8	1199.1	903.8	814.7	793.0	796.8	808.3	810.8
27.5°	3706.7	3343.9	2451.6	1531.3	936.9	777.7	735.7	734.5	748.5	763.7	766.3
30°	3640.5	3217.9	2184.3	1177.4	771.4	691.2	674.6	682.3	698.8	710.3	714.1
32.5°	3593.4	3109.7	1899.2	925.4	675.9	630.1	622.4	630.1	640.3	651.7	654.3
35°	3576.9	3030.8	1619.1	754.8	611.0	585.5	580.4	584.3	589.4	595.7	598.3
37.5°	3613.8	2991.3	1326.4	656.8	571.5	556.3	548.6	546.1	547.3	549.9	551.2
40°	3723.2	3009.1	1087.1	599.5	546.1	532.1	519.3	514.3	513.0	515.5	514.3
42.5°	3911.6	3084.2	913.9	566.4	525.7	505.3	491.3	486.2	486.2	492.6	492.6
45°	4187.8	3231.9	789.2	542.3	507.9	482.4	467.2	464.6	469.7	479.9	481.2
47.5°	4592.6	3448.3	714.1	524.4	491.3	462.1	446.8	445.5	455.7	472.2	473.5
50°	5072.5	3760.2	673.4	511.7	479.9	445.5	430.2	431.5	443.0	460.8	464.6
52.5°	5650.4	4185.3	675.9	506.6	473.5	435.3	420.1	417.5	429.0	446.8	450.6
55°	6247.4	4702.1	725.6	507.9	464.6	430.2	409.9	401.0	411.1	423.9	425.1
57.5°	6904.2	5285.1	849.0	505.3	453.2	425.1	401.0	380.6	387.0	394.6	398.4
60°	7645.0	5971.2	1115.1	510.4	448.1	413.7	383.1	356.4	355.1	360.2	361.5
62.5°	8635.4	6904.2	1414.2	519.3	459.5	399.7	356.4	328.4	323.3	325.9	327.1
65°	9392.7	7349.7	1320.0	511.7	483.7	389.5	331.0	301.7	291.5	288.9	288.9
67.5°	9084.7	6760.4	919.0	491.3	495.2	390.8	310.6	273.7	260.9	254.6	253.3
70°	7730.3	5491.3	639.0	471.0	482.4	388.2	288.9	250.8	234.2	225.3	224.0
72.5°	6107.4	4192.9	516.8	430.2	437.9	350.0	257.1	225.3	211.3	199.8	199.8
75°	3930.7	2558.5	431.5	383.1	357.7	272.4	222.8	201.1	187.1	175.7	175.7
77.5°	1322.5	949.6	334.8	324.6	267.3	204.9	187.1	173.1	161.7	151.5	150.2
80°	537.2	450.6	245.7	245.7	187.1	156.6	146.4	140.0	132.4	119.7	119.7
82.5°	311.9	273.7	171.8	148.9	124.7	108.2	101.8	95.5	95.5	86.6	86.6
85°	150.2	151.5	103.1	91.6	71.3	62.4	59.8	56.0	54.7	49.6	48.4
87.5°	81.5	82.7	52.2	40.7	28.0	24.2	20.4	19.1	17.8	16.5	16.5
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)