

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: P639743

Luminaire Tested: GWS-SA5C-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22869.3 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

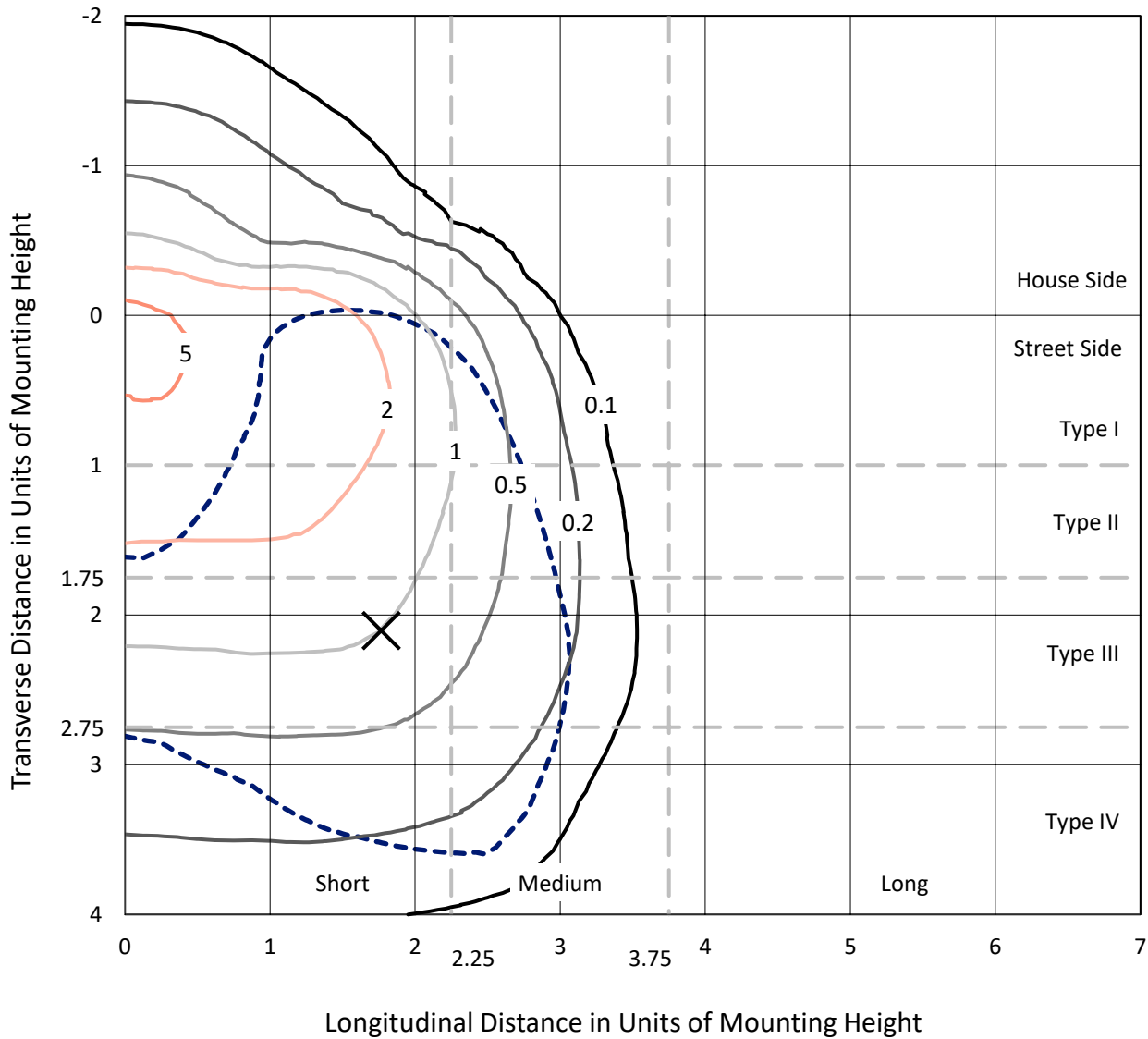
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

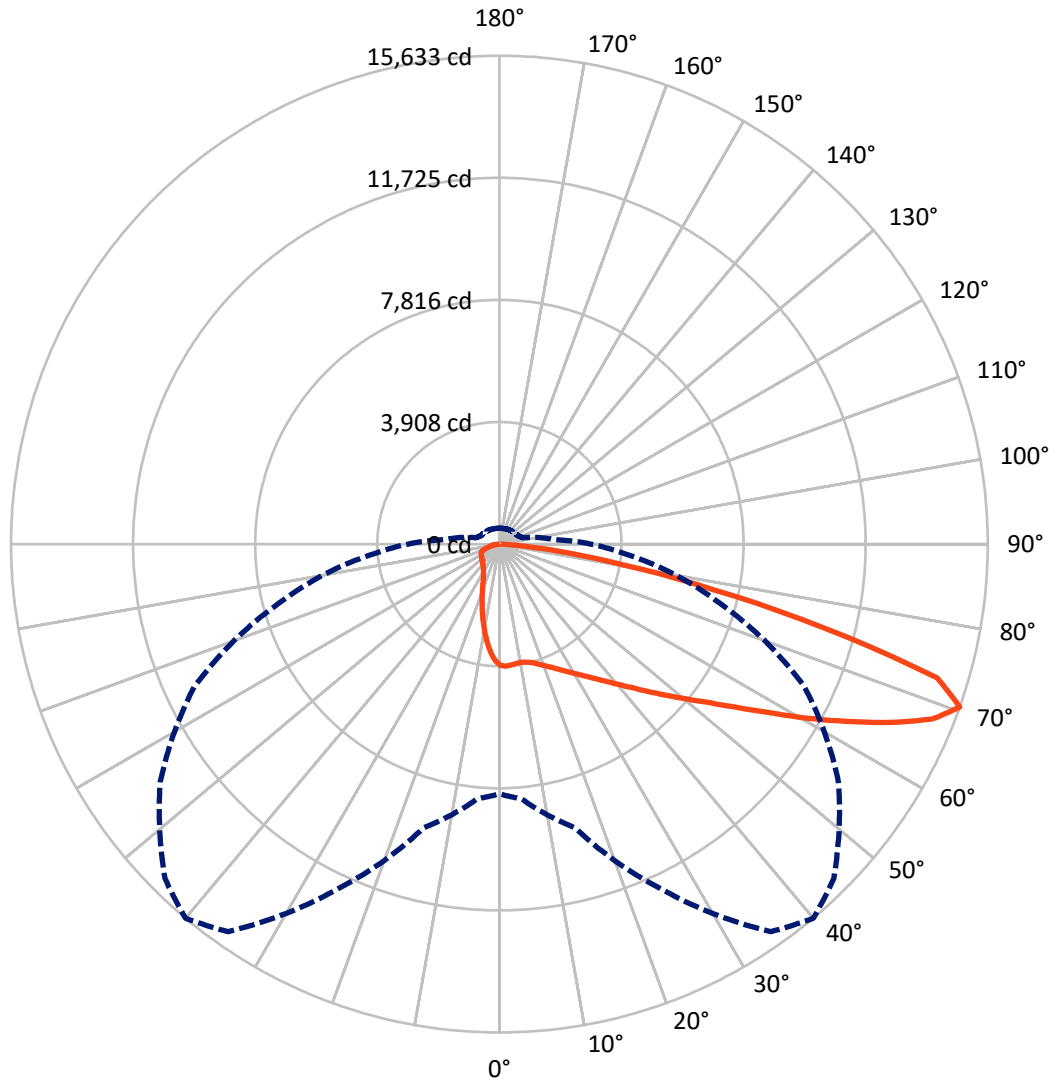
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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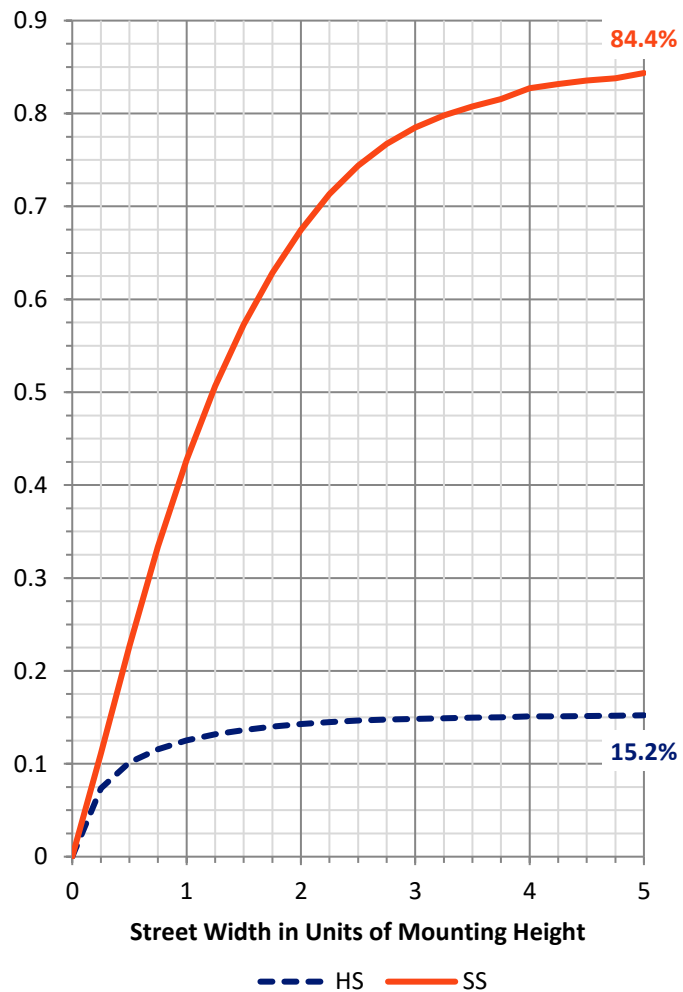
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3522.4	0.0	3522.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19346.8	0.0	19346.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	22869.3	0.0	22869.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	1.5
10°-20°	894.2	3.9
20°-30°	1404.1	6.1
30°-40°	2111.1	9.2
40°-50°	3258.6	14.2
50°-60°	4839.3	21.2
60°-70°	6099.8	26.7
70°-80°	3527.5	15.4
80°-90°	391.5	1.7
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°	22869.3	100.0
0°-180°	22869.3	100.0

Coefficient of Utilization



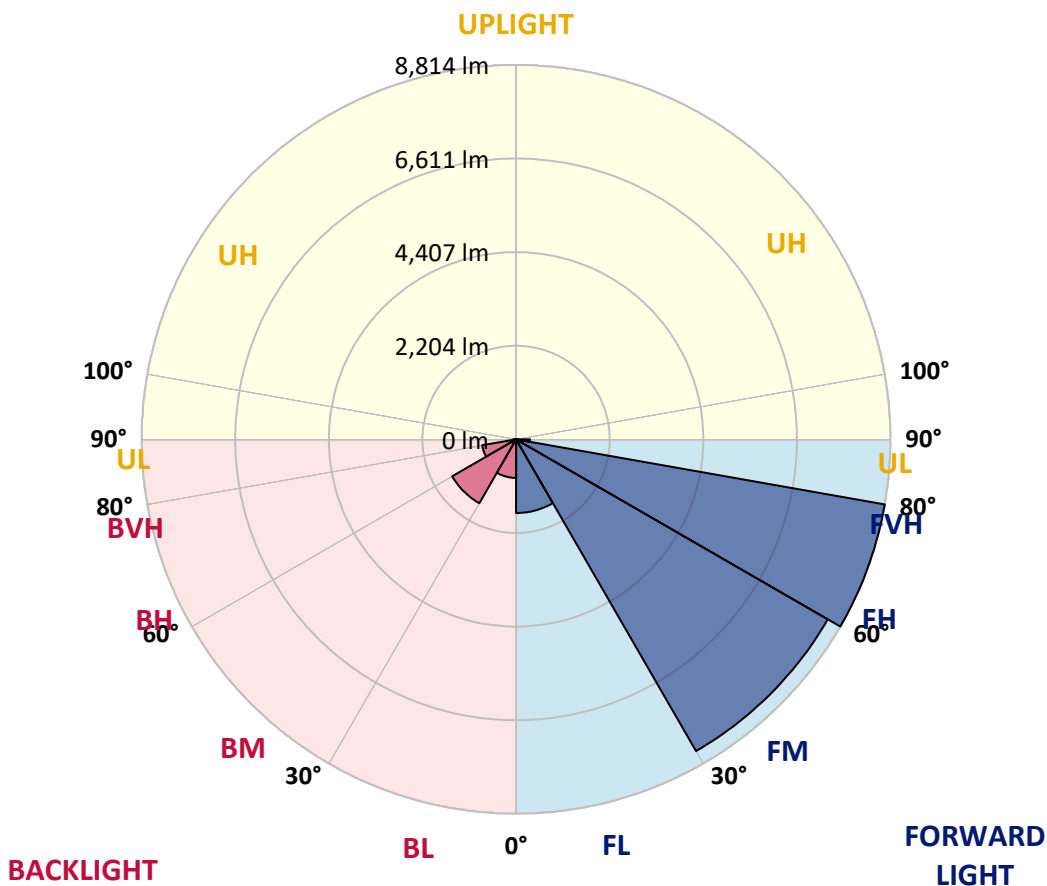
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.7	7.6			
FM (30°-60°)	8472.8	37.0			
FH (60°-80°)	8814.4	38.5			G4/12000
FVH (80°-90°)	326.0	1.4			G3/500
BL (0°-30°)	907.8	4.0	B2/1000		
BM (30°-60°)	1736.3	7.6	B2/2500		
BH (60°-80°)	813.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	65.4	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5
2.5°	3907.4	3914.2	3919.3	3926.1	3922.7	3912.5	3921.0	3921.0	3902.2	3881.8	3863.0
5°	3912.5	3921.0	3919.3	3917.6	3904.0	3886.9	3886.9	3876.6	3844.2	3811.8	3781.0
7.5°	3902.2	3900.5	3898.8	3893.7	3878.3	3859.6	3856.2	3835.7	3793.0	3748.6	3704.2
10°	3856.2	3854.5	3859.6	3871.5	3868.1	3851.0	3851.0	3832.3	3782.8	3728.1	3670.1
12.5°	3818.6	3818.6	3839.1	3871.5	3883.5	3876.6	3878.3	3864.7	3808.4	3743.5	3675.2
15°	3823.7	3825.4	3869.8	3922.7	3944.9	3939.8	3941.5	3926.1	3863.0	3798.1	3705.9
17.5°	3857.9	3866.4	3943.2	4016.6	4045.6	4038.8	4026.9	4001.3	3929.6	3856.2	3743.5
20°	3929.6	3943.2	4042.2	4134.4	4168.5	4153.2	4132.7	4081.5	4003.0	3922.7	3784.5
22.5°	4071.2	4079.8	4189.0	4279.5	4306.8	4288.0	4247.1	4173.7	4083.2	3999.5	3834.0
25°	4271.0	4281.2	4385.3	4469.0	4462.1	4440.0	4383.6	4293.2	4185.6	4096.8	3905.7
27.5°	4508.2	4525.3	4627.7	4694.3	4649.9	4617.5	4554.3	4445.1	4323.9	4243.7	4014.9
30°	4767.7	4774.5	4861.6	4928.2	4859.9	4815.5	4738.7	4620.9	4511.7	4451.9	4178.8
32.5°	5018.6	5025.5	5100.6	5138.1	5066.4	5034.0	4967.4	4842.8	4766.0	4733.6	4422.9
35°	5283.2	5281.5	5343.0	5375.4	5302.0	5288.3	5220.1	5124.5	5110.8	5153.5	4779.7
37.5°	5547.8	5532.5	5564.9	5607.6	5566.6	5580.2	5535.9	5503.4	5556.3	5667.3	5254.2
40°	5759.5	5759.5	5793.6	5846.5	5860.2	5919.9	5894.3	5937.0	6107.7	6372.3	5841.4
42.5°	5947.3	5949.0	6020.7	6102.6	6201.6	6293.8	6314.3	6425.2	6778.6	7193.4	6578.9
45°	6143.6	6145.3	6242.6	6362.1	6572.0	6747.8	6788.8	7038.0	7543.3	8048.6	7379.4
47.5°	6370.6	6351.8	6486.7	6686.4	6985.1	7237.8	7343.6	7697.0	8335.4	8956.7	8133.9
50°	6626.6	6587.4	6737.6	7082.4	7451.1	7797.7	7975.2	8379.8	9185.5	9794.9	8844.1
52.5°	6915.1	6892.9	7050.0	7469.9	8033.2	8432.7	8673.4	9204.2	10011.7	10629.6	9407.4
55°	7273.6	7220.7	7447.7	7982.0	8716.0	9224.7	9509.8	10020.2	10914.7	11387.5	9837.6
57.5°	7666.2	7608.2	7912.0	8622.2	9603.7	10161.9	10518.7	10938.6	11764.8	11967.9	10090.2
60°	8089.6	8070.8	8431.0	9373.2	10662.0	11310.7	11568.5	11949.1	12503.9	12304.2	10027.0
62.5°	8477.1	8470.2	8994.3	10187.5	11783.6	12497.1	12701.9	12802.6	13036.5	12282.0	9525.2
65°	8885.0	8943.1	9651.5	11131.5	13068.9	13768.8	13854.2	13598.1	13215.7	11699.9	8497.5
67.5°	8936.2	9048.9	10064.6	12015.7	14287.8	14948.4	14880.1	13900.3	12686.6	10080.0	6660.8
70°	7992.3	8188.6	9405.7	12150.6	15146.4	15632.9	15139.6	13249.9	10766.2	7302.6	4189.0
72.5°	6677.9	6846.9	7922.3	10361.6	14038.5	14658.2	13990.7	11215.1	7608.2	4189.0	2133.8
75°	5197.9	5394.2	6386.0	8236.4	10510.1	10757.6	10423.1	7821.6	4182.2	1727.5	969.6
77.5°	3171.6	3313.3	4084.9	5580.2	7353.8	6983.4	5918.2	4385.3	1835.0	827.9	599.2
80°	1403.2	1490.2	2012.6	2997.5	4248.8	4016.6	3166.5	1872.6	1003.7	525.8	418.2
82.5°	752.8	809.1	991.8	1186.4	1865.8	1951.1	1582.4	1078.8	539.4	300.4	239.0
85°	331.2	363.6	450.7	430.2	612.8	602.6	607.7	740.8	257.8	138.3	155.3
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	18.8	99.0	25.6	41.0	35.8
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°	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5	3883.5
2.5°	3842.5	3811.8	3803.2	3793.0	3774.2	3741.8	3717.9	3690.6	3678.6	3665.0	3666.7
5°	3746.9	3709.4	3673.5	3627.4	3569.4	3504.5	3460.1	3408.9	3381.6	3356.0	3362.8
7.5°	3665.0	3606.9	3533.5	3436.2	3332.1	3216.0	3122.1	3048.7	2999.2	2965.1	2982.2
10°	3613.8	3545.5	3417.5	3258.7	3082.9	2905.3	2770.5	2644.2	2565.7	2504.2	2500.8
12.5°	3603.5	3514.8	3328.7	3098.2	2843.9	2606.6	2408.6	2237.9	2133.8	2057.0	2086.0
15°	3613.8	3501.1	3251.9	2949.7	2628.8	2307.9	2062.1	1865.8	1741.2	1671.2	1666.1
17.5°	3625.7	3487.4	3164.8	2789.3	2403.5	2036.5	1751.4	1543.1	1415.1	1345.1	1346.8
20°	3636.0	3467.0	3062.4	2613.4	2174.7	1783.8	1488.5	1290.5	1176.1	1124.9	1133.5
22.5°	3653.0	3446.5	2953.1	2425.7	1940.9	1539.7	1280.3	1119.8	1051.5	1017.4	1019.1
25°	3685.5	3434.5	2840.5	2220.8	1710.4	1345.1	1136.9	1029.3	986.7	966.2	964.5
27.5°	3752.0	3444.8	2722.7	2022.8	1502.2	1196.6	1044.7	974.7	945.7	932.0	930.3
30°	3863.0	3485.7	2620.3	1821.4	1322.9	1080.5	981.5	938.9	921.8	909.8	908.1
32.5°	4032.0	3562.5	2509.3	1633.6	1177.8	995.2	932.0	909.8	897.9	891.1	891.1
35°	4288.0	3702.5	2400.1	1469.7	1065.2	928.6	892.8	884.2	874.0	870.6	874.0
37.5°	4656.7	3926.1	2301.1	1326.4	985.0	877.4	850.1	853.5	845.0	850.1	855.2
40°	5124.5	4224.9	2217.4	1208.6	925.2	839.9	812.5	824.5	819.4	824.5	833.0
42.5°	5716.8	4595.3	2154.3	1116.4	882.5	809.1	783.5	795.5	792.1	798.9	807.4
45°	6377.4	5083.5	2125.2	1051.5	851.8	786.9	759.6	768.2	764.7	769.9	778.4
47.5°	7010.7	5527.3	2150.8	1014.0	826.2	768.2	739.1	742.6	740.8	739.1	744.3
50°	7557.0	5880.7	2224.2	1002.0	809.1	749.4	722.1	723.8	718.7	708.4	711.8
52.5°	8002.5	6164.0	2268.6	1002.0	800.6	728.9	703.3	705.0	694.8	681.1	682.8
55°	8296.1	6278.4	2232.8	1000.3	797.2	711.8	684.5	686.2	676.0	658.9	660.6
57.5°	8379.8	6167.5	2082.6	981.5	793.8	698.2	665.7	669.2	662.3	643.5	643.5
60°	8145.9	5761.2	1807.7	938.9	785.2	689.6	652.1	657.2	653.8	635.0	635.0
62.5°	7533.1	5039.1	1480.0	874.0	761.3	679.4	640.1	650.4	658.9	648.7	647.0
65°	6386.0	4037.1	1203.4	802.3	730.6	662.3	623.1	648.7	667.4	681.1	681.1
67.5°	4791.6	2890.0	981.5	727.2	684.5	628.2	600.9	624.8	638.4	647.0	652.1
70°	2920.7	1700.2	773.3	640.1	617.9	577.0	556.5	532.6	513.8	510.4	512.1
72.5°	1428.8	973.0	628.2	544.5	527.5	489.9	443.8	433.6	425.0	419.9	418.2
75°	786.9	677.7	518.9	452.4	421.6	375.5	365.3	348.2	344.8	338.0	339.7
77.5°	556.5	534.3	428.5	367.0	320.9	297.0	302.1	290.2	290.2	285.1	283.4
80°	418.2	419.9	329.5	268.0	237.3	228.7	233.9	233.9	230.4	228.7	227.0
82.5°	264.6	298.7	221.9	172.4	169.0	170.7	169.0	167.3	170.7	165.6	163.9
85°	182.7	215.1	134.9	102.4	102.4	100.7	104.1	102.4	105.8	100.7	100.7
87.5°	41.0	95.6	49.5	30.7	32.4	30.7	32.4	34.1	37.6	39.3	39.3
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)