

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: P637708

Luminaire Tested: GWS-SA4D-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637708
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-SA4D-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23196.7 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

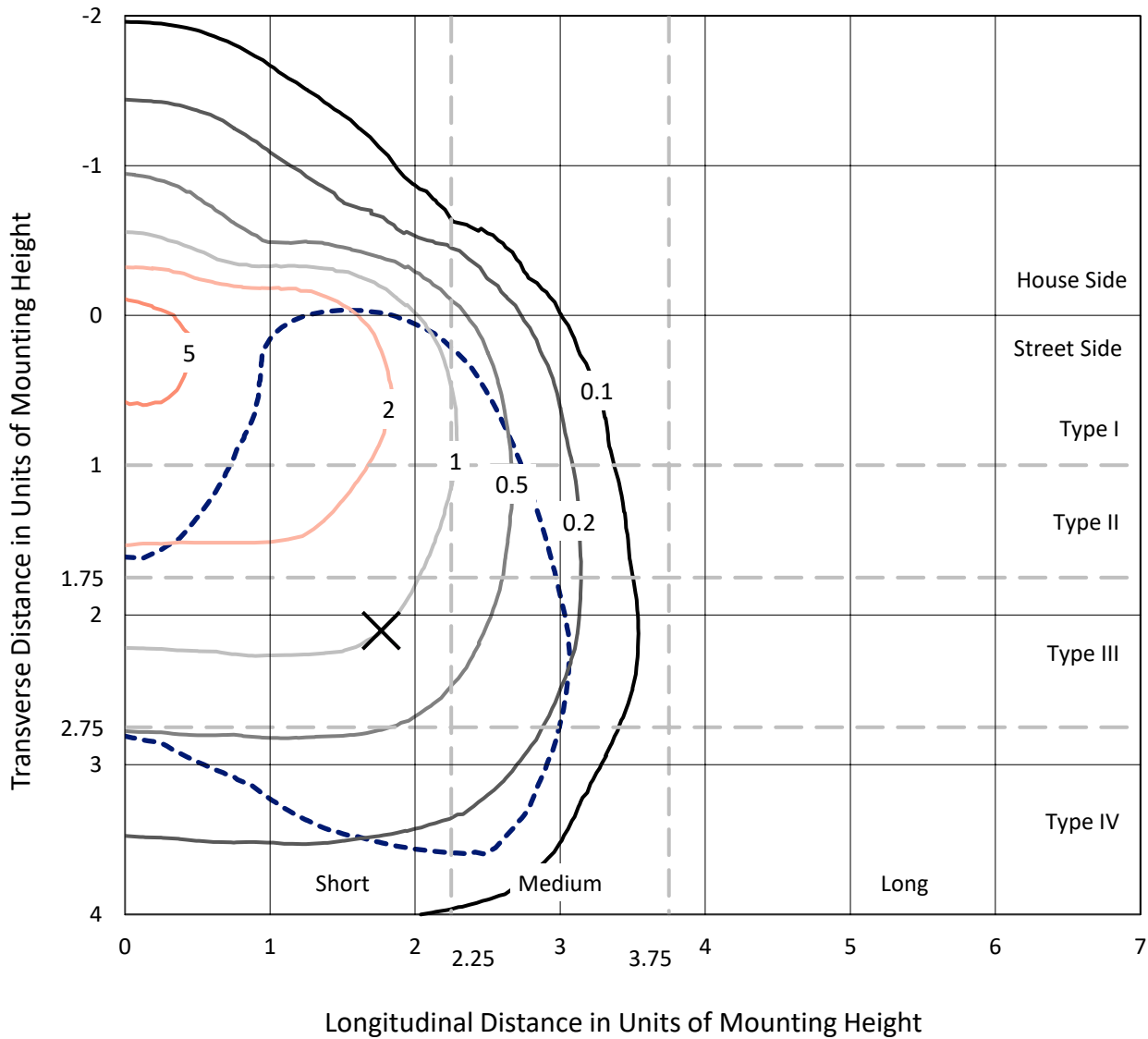
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

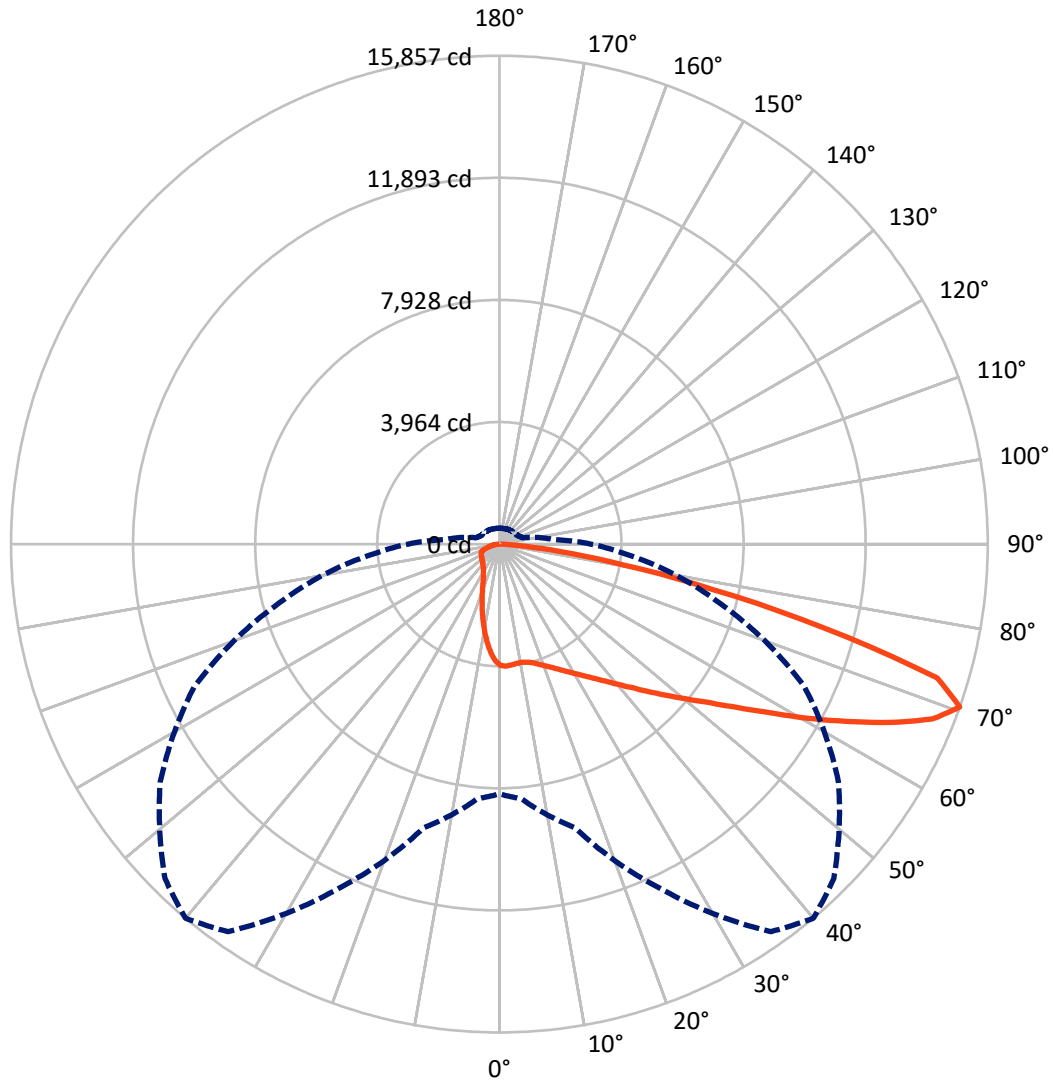
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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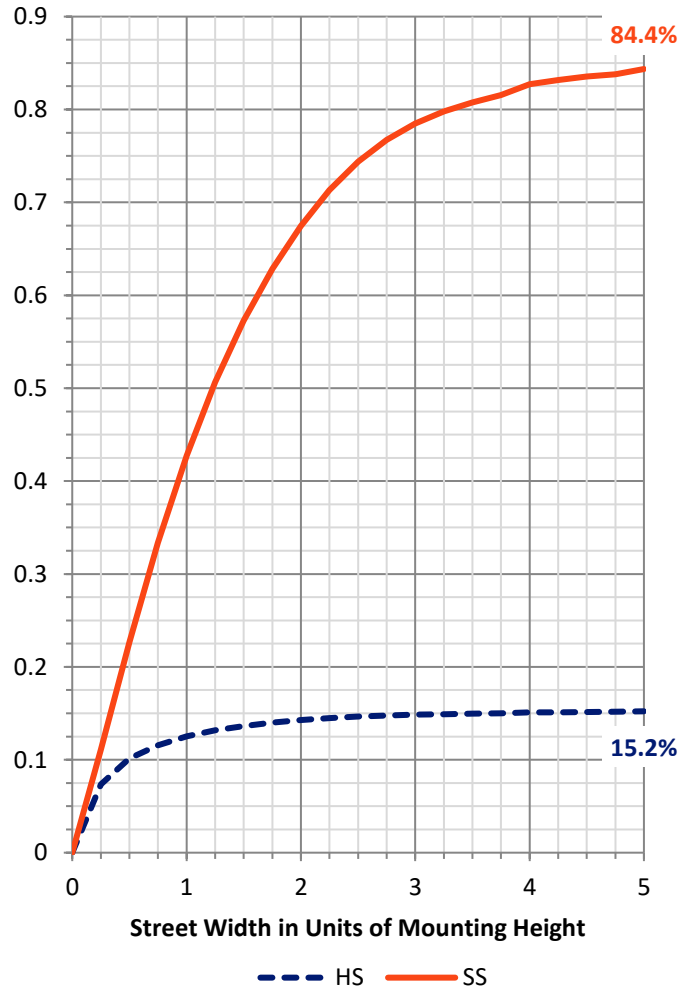
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3572.9	0.0	3572.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19623.8	0.0	19623.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	23196.7	0.0	23196.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.0	1.5
10°-20°	907.0	3.9
20°-30°	1424.2	6.1
30°-40°	2141.4	9.2
40°-50°	3305.3	14.2
50°-60°	4908.6	21.2
60°-70°	6187.2	26.7
70°-80°	3578.0	15.4
80°-90°	397.1	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°	23196.7	100.0
0°-180°	23196.7	100.0

Coefficient of Utilization



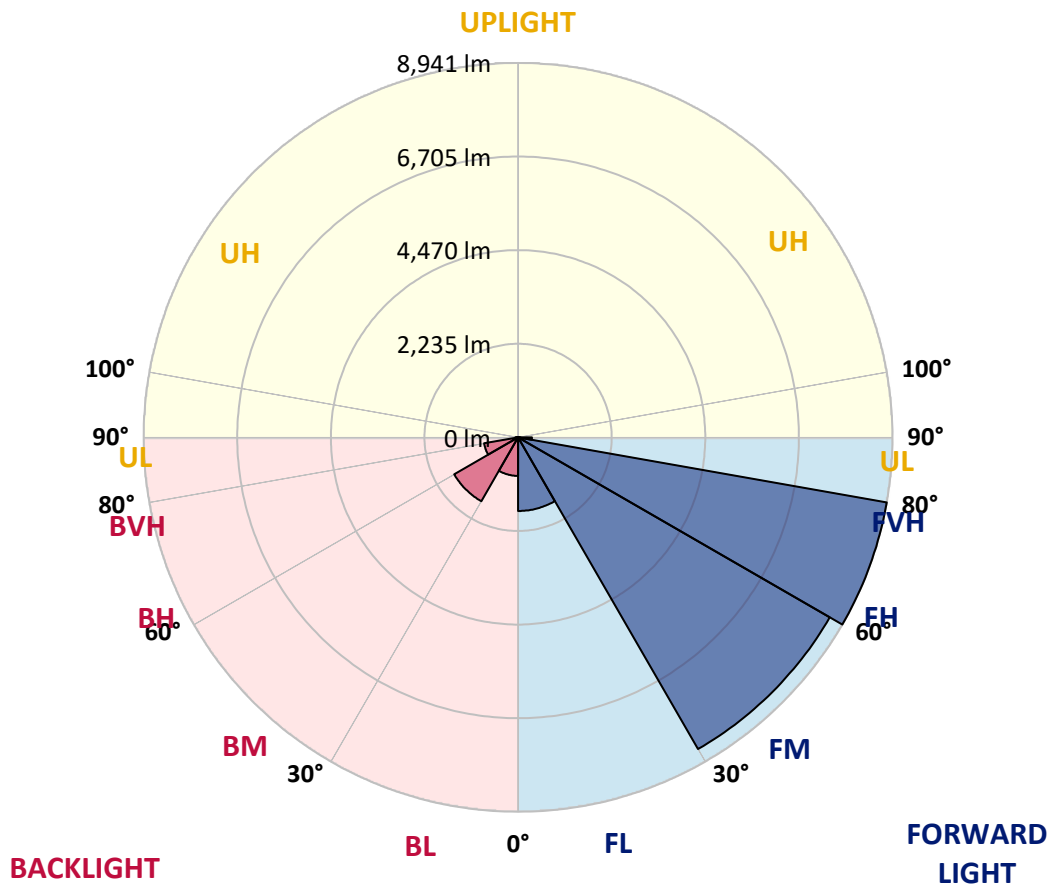
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.5	7.6			
FM (30°-60°)	8594.1	37.0			
FH (60°-80°)	8940.5	38.5			G4/12000
FVH (80°-90°)	330.7	1.4			G3/500
BL (0°-30°)	920.8	4.0	B2/1000		
BM (30°-60°)	1761.1	7.6	B2/2500		
BH (60°-80°)	824.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	66.4	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°	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1
2.5°	3963.3	3970.2	3975.4	3982.4	3978.9	3968.5	3977.2	3977.2	3958.1	3937.3	3918.3
5°	3968.5	3977.2	3975.4	3973.7	3959.8	3942.5	3942.5	3932.1	3899.2	3866.3	3835.2
7.5°	3958.1	3956.4	3954.6	3949.5	3933.9	3914.8	3911.4	3890.6	3847.3	3802.3	3757.3
10°	3911.4	3909.6	3914.8	3926.9	3923.5	3906.2	3906.2	3887.1	3836.9	3781.5	3722.6
12.5°	3873.3	3873.3	3894.0	3926.9	3939.1	3932.1	3933.9	3920.0	3862.9	3797.1	3727.8
15°	3878.5	3880.2	3925.2	3978.9	4001.4	3996.2	3997.9	3982.4	3918.3	3852.5	3759.0
17.5°	3913.1	3921.8	3999.7	4074.1	4103.6	4096.6	4084.5	4058.5	3985.8	3911.4	3797.1
20°	3985.8	3999.7	4100.1	4193.6	4228.2	4212.6	4191.9	4139.9	4060.3	3978.9	3838.6
22.5°	4129.5	4138.2	4249.0	4340.8	4368.5	4349.4	4307.9	4233.4	4141.6	4056.8	3888.9
25°	4332.1	4342.5	4448.1	4533.0	4526.0	4503.5	4446.4	4354.6	4245.5	4155.5	3961.6
27.5°	4572.8	4590.1	4694.0	4761.5	4716.5	4683.6	4619.5	4508.7	4385.8	4304.4	4072.4
30°	4836.0	4842.9	4931.2	4998.7	4929.5	4884.4	4806.5	4687.1	4576.2	4515.6	4238.6
32.5°	5090.5	5097.4	5173.6	5211.7	5139.0	5106.1	5038.5	4912.1	4834.2	4801.3	4486.2
35°	5358.9	5357.1	5419.5	5452.4	5377.9	5364.1	5294.8	5197.8	5184.0	5227.3	4848.1
37.5°	5627.2	5611.7	5644.6	5687.8	5646.3	5660.1	5615.1	5582.2	5635.9	5748.4	5329.4
40°	5841.9	5841.9	5876.6	5930.2	5944.1	6004.7	5978.7	6022.0	6195.2	6463.5	5925.0
42.5°	6032.4	6034.1	6106.9	6190.0	6290.4	6383.9	6404.7	6517.2	6875.6	7296.4	6673.0
45°	6231.5	6233.2	6331.9	6453.1	6666.1	6844.5	6886.0	7138.8	7651.3	8163.8	7485.1
47.5°	6461.8	6442.8	6579.5	6782.1	7085.1	7341.4	7448.7	7807.1	8454.7	9085.0	8250.4
50°	6721.5	6681.7	6834.1	7183.8	7557.8	7909.3	8089.4	8499.7	9317.0	9935.1	8970.7
52.5°	7014.1	6991.6	7150.9	7576.9	8148.2	8553.4	8797.5	9336.0	10155.0	10781.8	9542.1
55°	7377.7	7324.1	7554.3	8096.3	8840.8	9356.8	9645.9	10163.7	11070.9	11550.6	9978.4
57.5°	7776.0	7717.1	8025.3	8745.6	9741.2	10307.4	10669.2	11095.2	11933.2	12139.2	10234.6
60°	8205.4	8186.3	8551.7	9507.4	10814.7	11472.6	11734.1	12120.2	12682.9	12480.3	10170.6
62.5°	8598.4	8591.5	9123.0	10333.3	11952.3	12676.0	12883.8	12985.9	13223.1	12457.8	9661.5
65°	9012.2	9071.1	9789.7	11290.8	13256.0	13965.9	14052.5	13792.8	13404.9	11867.4	8619.2
67.5°	9064.2	9178.5	10208.7	12187.7	14492.3	15162.4	15093.1	14099.3	12868.2	10224.3	6756.1
70°	8106.7	8305.8	9540.3	12324.5	15363.2	15856.7	15356.3	13439.6	10920.3	7407.2	4249.0
72.5°	6773.5	6944.9	8035.7	10509.9	14239.5	14868.0	14191.0	11375.7	7717.1	4249.0	2164.3
75°	5272.3	5471.4	6477.4	8354.3	10660.6	10911.6	10572.3	7933.5	4242.1	1752.2	983.5
77.5°	3217.0	3360.8	4143.4	5660.1	7459.1	7083.4	6003.0	4448.1	1861.3	839.8	607.7
80°	1423.3	1511.6	2041.4	3040.4	4309.6	4074.1	3211.9	1899.4	1018.1	533.3	424.2
82.5°	763.6	820.7	1006.0	1203.4	1892.5	1979.1	1605.1	1094.3	547.1	304.7	242.4
85°	335.9	368.8	457.1	436.3	621.6	611.2	616.4	751.5	261.5	140.2	157.6
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	19.0	100.4	26.0	41.6	36.4
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°	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1	3939.1
2.5°	3897.5	3866.3	3857.7	3847.3	3828.3	3795.4	3771.1	3743.4	3731.3	3717.4	3719.2
5°	3800.5	3762.5	3726.1	3679.3	3620.5	3554.7	3509.7	3457.7	3430.0	3404.0	3411.0
7.5°	3717.4	3658.6	3584.1	3485.4	3379.8	3262.1	3166.8	3092.4	3042.2	3007.5	3024.9
10°	3665.5	3596.2	3466.4	3305.4	3127.0	2946.9	2810.2	2682.0	2602.4	2540.0	2536.6
12.5°	3655.1	3565.1	3376.3	3142.6	2884.6	2643.9	2443.1	2269.9	2164.3	2086.4	2115.8
15°	3665.5	3551.2	3298.4	2992.0	2666.4	2340.9	2091.6	1892.5	1766.1	1695.1	1689.9
17.5°	3677.6	3537.4	3210.1	2829.2	2437.9	2065.6	1776.5	1565.2	1435.4	1364.4	1366.1
20°	3688.0	3516.6	3106.2	2650.9	2205.9	1809.4	1509.8	1309.0	1193.0	1141.0	1149.7
22.5°	3705.3	3495.8	2995.4	2460.4	1968.7	1561.8	1298.6	1135.8	1066.6	1031.9	1033.7
25°	3738.2	3483.7	2881.1	2252.6	1734.9	1364.4	1153.2	1044.1	1000.8	980.0	978.3
27.5°	3805.7	3494.1	2761.7	2051.8	1523.7	1213.8	1059.7	988.7	959.2	945.4	943.6
30°	3918.3	3535.6	2657.8	1847.5	1341.9	1096.0	995.6	952.3	935.0	922.9	921.1
32.5°	4089.7	3613.6	2545.2	1657.0	1194.7	1009.4	945.4	922.9	910.7	903.8	903.8
35°	4349.4	3755.5	2434.4	1490.8	1080.4	941.9	905.6	896.9	886.5	883.0	886.5
37.5°	4723.4	3982.4	2334.0	1345.3	999.1	890.0	862.3	865.7	857.1	862.3	867.5
40°	5197.8	4285.4	2249.2	1225.9	938.4	851.9	824.2	836.3	831.1	836.3	845.0
42.5°	5798.7	4661.1	2185.1	1132.4	895.2	820.7	794.7	806.9	803.4	810.3	819.0
45°	6468.7	5156.3	2155.7	1066.6	864.0	798.2	770.5	779.2	775.7	780.9	789.5
47.5°	7111.1	5606.5	2181.6	1028.5	838.0	779.2	749.7	753.2	751.5	749.7	754.9
50°	7665.2	5964.9	2256.1	1016.4	820.7	760.1	732.4	734.1	728.9	718.6	722.0
52.5°	8117.1	6252.3	2301.1	1016.4	812.1	739.3	713.4	715.1	704.7	690.9	692.6
55°	8414.9	6368.3	2264.7	1014.6	808.6	722.0	694.3	696.0	685.7	668.3	670.1
57.5°	8499.7	6255.8	2112.4	995.6	805.1	708.2	675.3	678.7	671.8	652.8	652.8
60°	8262.5	5843.7	1833.6	952.3	796.5	699.5	661.4	666.6	663.1	644.1	644.1
62.5°	7640.9	5111.3	1501.2	886.5	772.2	689.1	649.3	659.7	668.3	658.0	656.2
65°	6477.4	4094.9	1220.7	813.8	741.1	671.8	632.0	658.0	677.0	690.9	690.9
67.5°	4860.2	2931.4	995.6	737.6	694.3	637.2	609.5	633.7	647.6	656.2	661.4
70°	2962.5	1724.5	784.4	649.3	626.8	585.2	564.5	540.2	521.2	517.7	519.4
72.5°	1449.2	986.9	637.2	552.3	535.0	496.9	450.2	439.8	431.1	425.9	424.2
75°	798.2	687.4	526.4	458.8	427.7	380.9	370.5	353.2	349.8	342.8	344.6
77.5°	564.5	541.9	434.6	372.3	325.5	301.3	306.5	294.3	294.3	289.2	287.4
80°	424.2	425.9	334.2	271.8	240.7	232.0	237.2	237.2	233.7	232.0	230.3
82.5°	268.4	303.0	225.1	174.9	171.4	173.1	171.4	169.7	173.1	168.0	166.2
85°	185.3	218.2	136.8	103.9	103.9	102.2	105.6	103.9	107.4	102.2	102.2
87.5°	41.6	97.0	50.2	31.2	32.9	31.2	32.9	34.6	38.1	39.8	39.8
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)