

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: P640447

Luminaire Tested: GWS-SA5D-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21037.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

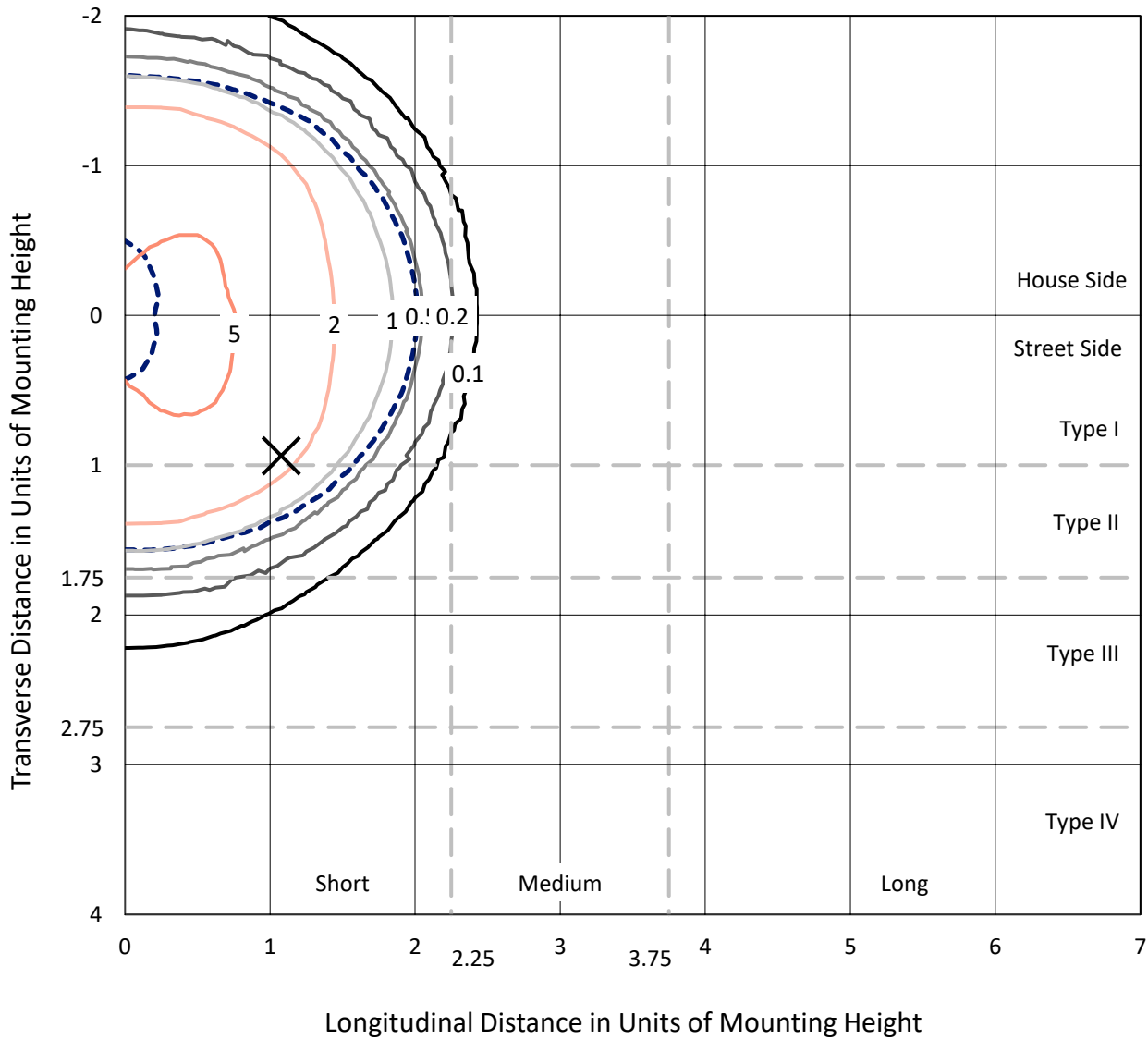
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

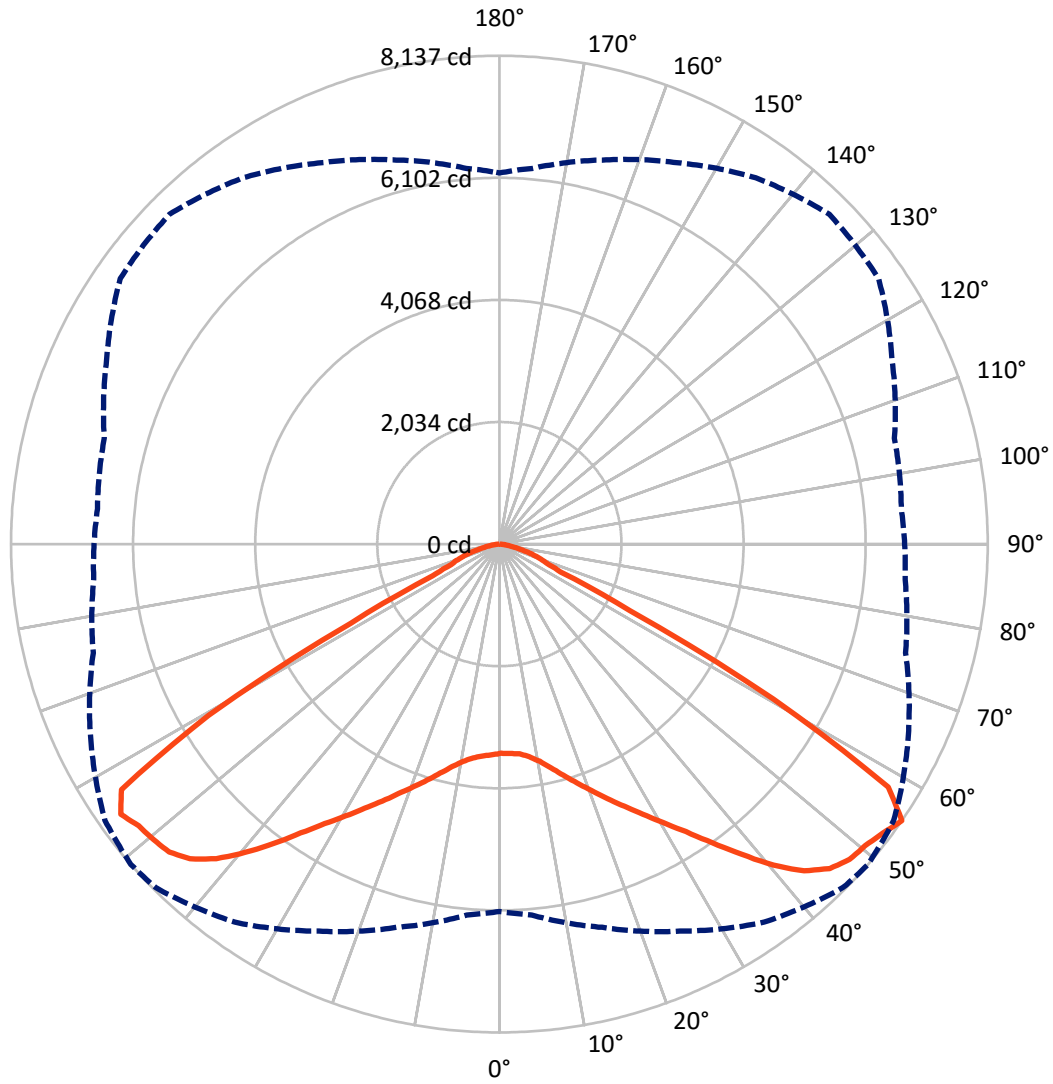
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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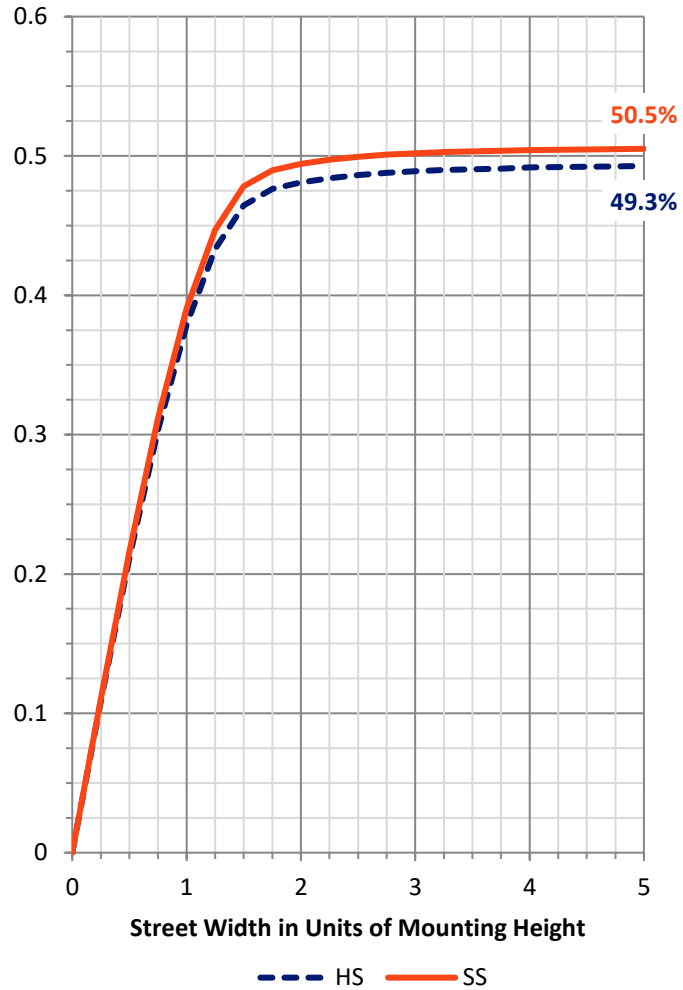
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10415.4	0.0	10415.4
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10621.7	0.0	10621.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	21037.1	0.0	21037.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.6
10°-20°	1121.3	5.3
20°-30°	2135.8	10.2
30°-40°	3620.6	17.2
40°-50°	5448.8	25.9
50°-60°	5964.2	28.4
60°-70°	1885.9	9.0
70°-80°	452.6	2.2
80°-90°	67.9	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°	21037.1	100.0
0°-180°	21037.1	100.0

Coefficient of Utilization



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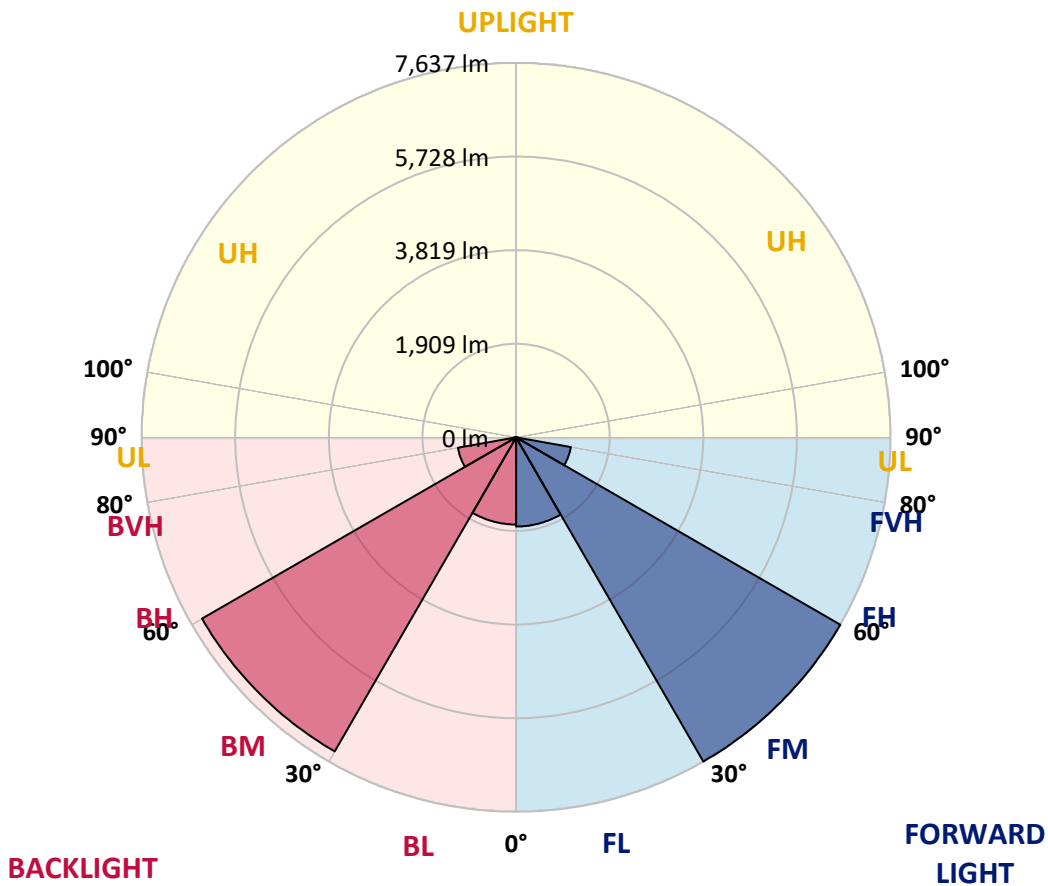
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.8	8.6			
FM (30°-60°)	7637.1	36.3			
FH (60°-80°)	1134.4	5.4			G1/1800
FVH (80°-90°)	31.4	0.1			G1/100
BL (0°-30°)	1778.2	8.5	B3/2500		
BM (30°-60°)	7396.5	35.2	B4/8500		
BH (60°-80°)	1204.1	5.7	B3/2500		G1/1800
BVH (80°-90°)	36.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9
2.5°	3433.6	3437.0	3443.9	3455.8	3467.8	3484.9	3491.8	3500.3	3498.6	3508.9	3508.9
5°	3416.5	3421.6	3431.9	3449.0	3469.5	3502.0	3510.6	3531.1	3551.6	3577.3	3585.9
7.5°	3437.0	3443.9	3455.8	3483.2	3514.0	3556.8	3573.9	3608.1	3647.5	3693.6	3712.5
10°	3476.4	3484.9	3505.5	3549.9	3599.5	3664.6	3680.0	3722.7	3786.0	3849.3	3887.0
12.5°	3520.9	3534.5	3572.2	3642.3	3715.9	3801.4	3825.4	3878.4	3946.8	4029.0	4080.3
15°	3572.2	3584.2	3642.3	3741.5	3856.2	3969.1	3996.5	4047.8	4124.8	4205.2	4277.0
17.5°	3680.0	3700.5	3768.9	3883.5	4017.0	4150.4	4181.2	4239.4	4301.0	4364.3	4432.7
20°	3827.1	3844.2	3931.4	4073.4	4230.8	4352.3	4383.1	4434.4	4463.5	4496.0	4554.2
22.5°	3974.2	3998.2	4097.4	4265.1	4449.8	4581.6	4605.5	4653.4	4632.9	4622.6	4660.3
25°	4157.3	4189.8	4287.3	4470.4	4658.5	4821.1	4839.9	4880.9	4846.7	4793.7	4792.0
27.5°	4384.8	4413.9	4514.8	4703.0	4889.5	5058.9	5094.8	5149.5	5074.3	5009.3	4963.1
30°	4655.1	4673.9	4785.1	4985.3	5176.9	5337.7	5383.9	5438.7	5382.2	5274.4	5228.2
32.5°	4969.9	4995.6	5123.9	5334.3	5505.4	5666.2	5712.4	5780.8	5719.2	5597.8	5539.6
35°	5348.0	5373.7	5508.8	5738.1	5912.6	6078.5	6111.0	6167.5	6090.5	5950.2	5904.0
37.5°	5758.6	5791.1	5962.2	6179.5	6362.5	6555.8	6557.5	6574.6	6465.2	6290.7	6239.3
40°	6220.5	6263.3	6434.4	6660.2	6880.9	7038.3	7036.6	6988.7	6803.9	6533.6	6454.9
42.5°	6677.3	6711.5	6884.3	7117.0	7337.7	7486.5	7442.0	7325.7	7058.8	6691.0	6586.6
45°	7007.5	7033.1	7214.5	7476.2	7700.4	7792.7	7712.3	7572.1	7211.1	6790.2	6636.2
47.5°	7163.2	7197.4	7380.4	7640.5	7893.7	7946.7	7850.9	7719.2	7300.0	6882.6	6675.6
50°	7079.3	7123.8	7330.8	7572.1	7857.8	7967.2	7898.8	7767.1	7394.1	6973.3	6745.7
52.5°	6862.1	6904.8	7166.6	7459.1	7782.5	7999.8	7998.0	7890.3	7501.9	6998.9	6749.2
55°	6119.6	6203.4	6610.6	7115.3	7690.1	8095.6	8136.6	8022.0	7519.0	7005.8	6785.1
57.5°	3982.8	4129.9	4516.5	5173.5	6326.6	7363.3	7640.5	7667.9	7395.8	6976.7	6791.9
60°	1662.9	1781.0	2087.2	2523.4	3476.4	4709.9	5247.1	5786.0	6436.1	6672.2	6728.6
62.5°	1033.3	1043.6	1074.4	1173.6	1491.8	2094.0	2439.6	2944.3	3910.9	4733.8	5113.6
65°	932.4	937.5	944.4	937.5	952.9	1026.5	1118.9	1295.1	1688.6	2097.5	2583.3
67.5°	821.2	828.0	833.2	828.0	833.2	836.6	846.9	862.2	934.1	992.3	1036.8
70°	663.8	674.1	682.6	679.2	699.7	699.7	710.0	722.0	757.9	800.7	831.5
72.5°	506.4	497.8	508.1	511.5	530.4	540.6	556.0	569.7	610.8	636.4	675.8
75°	328.5	319.9	335.3	343.9	369.5	383.2	396.9	410.6	439.7	456.8	494.4
77.5°	177.9	176.2	191.6	203.6	231.0	248.1	258.3	268.6	292.5	297.7	321.6
80°	102.6	102.6	112.9	121.5	138.6	157.4	167.7	176.2	193.3	198.5	208.7
82.5°	56.5	56.5	61.6	66.7	80.4	90.7	99.2	106.1	121.5	126.6	131.7
85°	27.4	25.7	29.1	32.5	37.6	42.8	47.9	51.3	63.3	66.7	73.6
87.5°	3.4	3.4	3.4	5.1	6.8	10.3	12.0	12.0	18.8	22.2	25.7
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°	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9	3484.9
2.5°	3519.1	3496.9	3510.6	3515.7	3515.7	3510.6	3488.3	3481.5	3471.2	3455.8	3455.8
5°	3597.8	3580.7	3584.2	3575.6	3555.1	3529.4	3488.3	3467.8	3450.7	3431.9	3430.2
7.5°	3733.0	3710.8	3707.3	3674.8	3620.1	3565.3	3503.7	3466.1	3440.4	3416.5	3414.8
10°	3909.2	3888.7	3863.0	3798.0	3717.6	3637.2	3553.4	3502.0	3464.4	3430.2	3428.5
12.5°	4105.9	4082.0	4034.1	3938.3	3837.4	3758.7	3662.8	3584.2	3527.7	3481.5	3472.9
15°	4319.8	4285.6	4203.5	4090.6	3991.3	3907.5	3804.8	3691.9	3606.4	3532.8	3524.3
17.5°	4484.0	4439.6	4350.6	4244.5	4162.4	4078.6	3945.1	3803.1	3680.0	3587.6	3573.9
20°	4597.0	4561.0	4460.1	4381.4	4333.5	4259.9	4104.2	3943.4	3804.8	3688.5	3681.7
22.5°	4701.3	4658.5	4559.3	4513.1	4513.1	4463.5	4314.7	4124.8	3962.2	3827.1	3810.0
25°	4819.4	4773.2	4697.9	4692.8	4716.7	4694.5	4514.8	4311.2	4121.3	3969.1	3941.7
27.5°	4983.6	4932.3	4887.8	4918.6	4952.8	4928.8	4728.7	4492.6	4292.4	4138.5	4114.5
30°	5245.3	5182.0	5141.0	5178.6	5245.3	5175.2	4957.9	4708.2	4506.3	4336.9	4324.9
32.5°	5549.9	5478.0	5435.2	5495.1	5555.0	5445.5	5230.0	4990.4	4778.3	4600.4	4579.8
35°	5916.0	5825.3	5762.0	5842.4	5904.0	5796.2	5582.4	5354.8	5118.7	4934.0	4906.6
37.5°	6241.0	6131.5	6088.8	6201.7	6283.8	6213.7	5981.0	5767.1	5508.8	5306.9	5295.0
40°	6477.1	6369.4	6338.6	6525.0	6668.7	6651.6	6442.9	6198.3	5955.3	5722.7	5700.4
42.5°	6579.8	6504.5	6511.3	6762.8	6985.2	7094.7	6908.3	6646.5	6412.1	6170.9	6155.5
45°	6602.0	6555.8	6610.6	6925.4	7217.9	7442.0	7282.9	7063.9	6798.8	6566.1	6559.3
47.5°	6626.0	6600.3	6684.1	7017.7	7365.0	7625.1	7536.1	7310.3	7041.7	6814.2	6797.1
50°	6682.4	6672.2	6766.3	7082.8	7435.2	7674.7	7573.8	7349.6	7074.2	6850.1	6809.0
52.5°	6699.5	6682.4	6817.6	7183.7	7551.5	7673.0	7455.7	7163.2	6886.0	6636.2	6593.5
55°	6752.6	6721.8	6814.2	7221.3	7712.3	7772.2	7448.9	7010.9	6624.3	6283.8	6182.9
57.5°	6766.3	6732.0	6791.9	7159.7	7537.8	7484.8	6547.3	5657.7	4928.8	4550.8	4593.5
60°	6692.7	6703.0	6600.3	6559.3	6046.0	5337.7	4008.4	3204.4	2516.6	2225.8	2289.1
62.5°	5094.8	5137.6	4786.9	4162.4	3200.9	2537.1	1678.3	1303.6	1103.5	1052.1	1060.7
65°	2571.3	2629.5	2265.1	1873.3	1392.6	1125.7	973.5	942.7	932.4	920.4	920.4
67.5°	1017.9	1035.0	1021.4	956.3	889.6	865.7	858.8	855.4	843.4	836.6	838.3
70°	817.8	831.5	810.9	769.9	742.5	740.8	737.4	730.5	722.0	722.0	727.1
72.5°	667.2	680.9	651.8	626.2	605.6	590.2	581.7	576.5	564.6	564.6	569.7
75°	491.0	499.6	475.6	472.2	449.9	434.5	420.9	414.0	398.6	391.8	396.9
77.5°	326.8	325.1	313.1	313.1	304.5	285.7	270.3	254.9	234.4	220.7	224.1
80°	212.1	212.1	207.0	207.0	198.5	183.1	164.2	148.8	136.9	126.6	126.6
82.5°	135.2	133.4	131.7	130.0	126.6	111.2	97.5	87.3	78.7	71.9	73.6
85°	75.3	75.3	71.9	71.9	65.0	56.5	49.6	42.8	37.6	35.9	35.9
87.5°	25.7	25.7	24.0	24.0	20.5	15.4	12.0	10.3	8.6	6.8	8.6
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)