

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: P637699

Luminaire Tested: GWS-SA4D-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14182.6 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

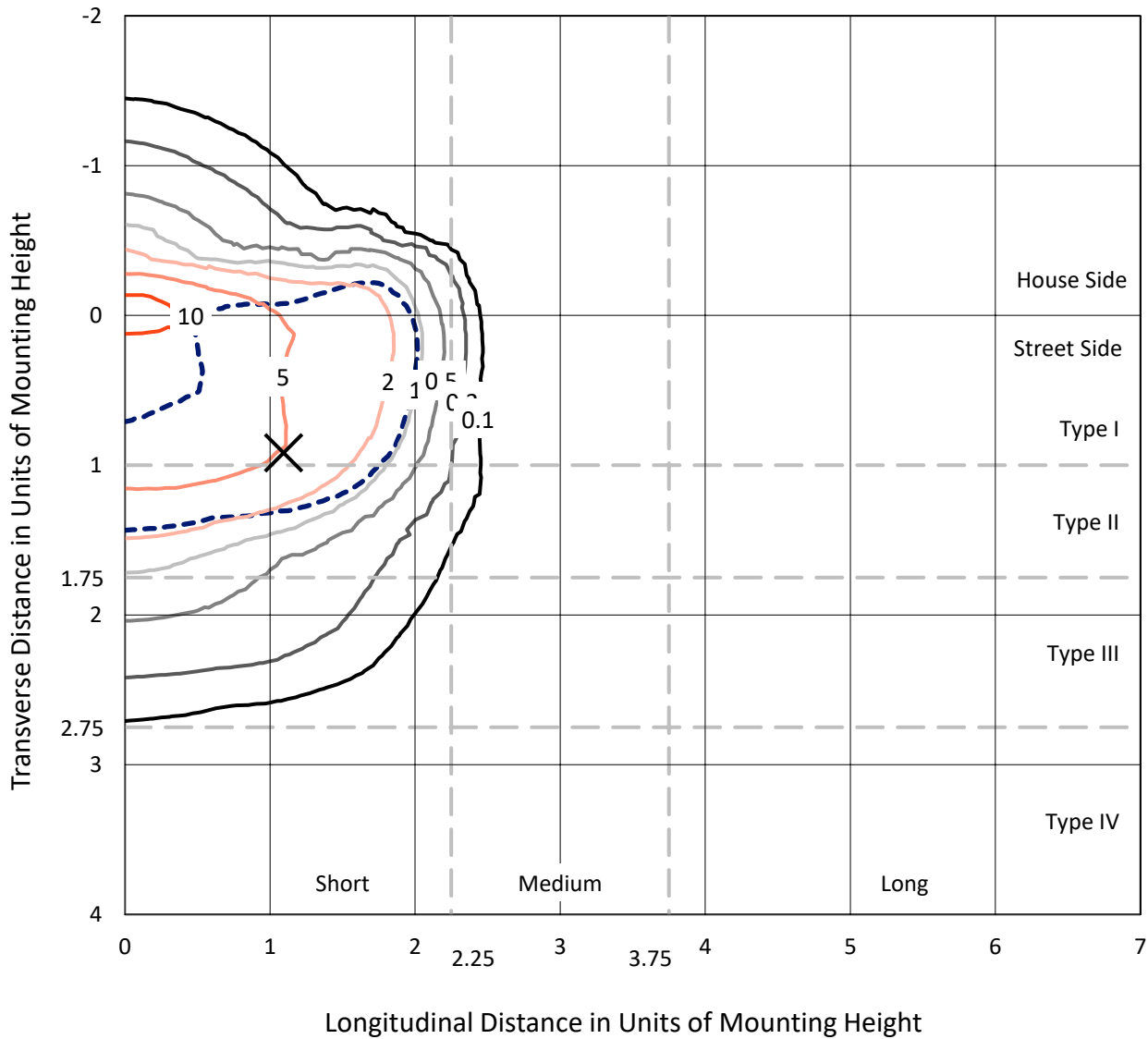
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

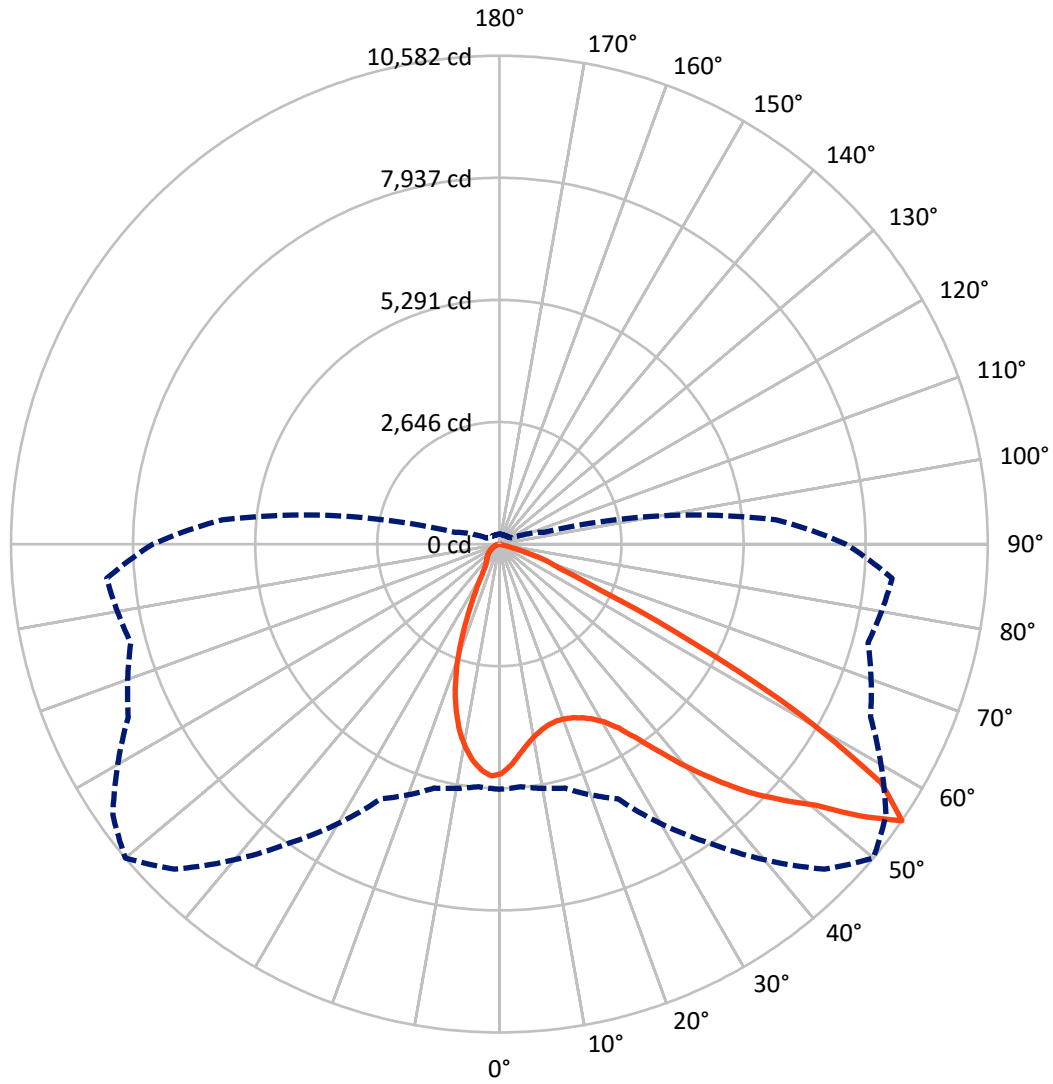
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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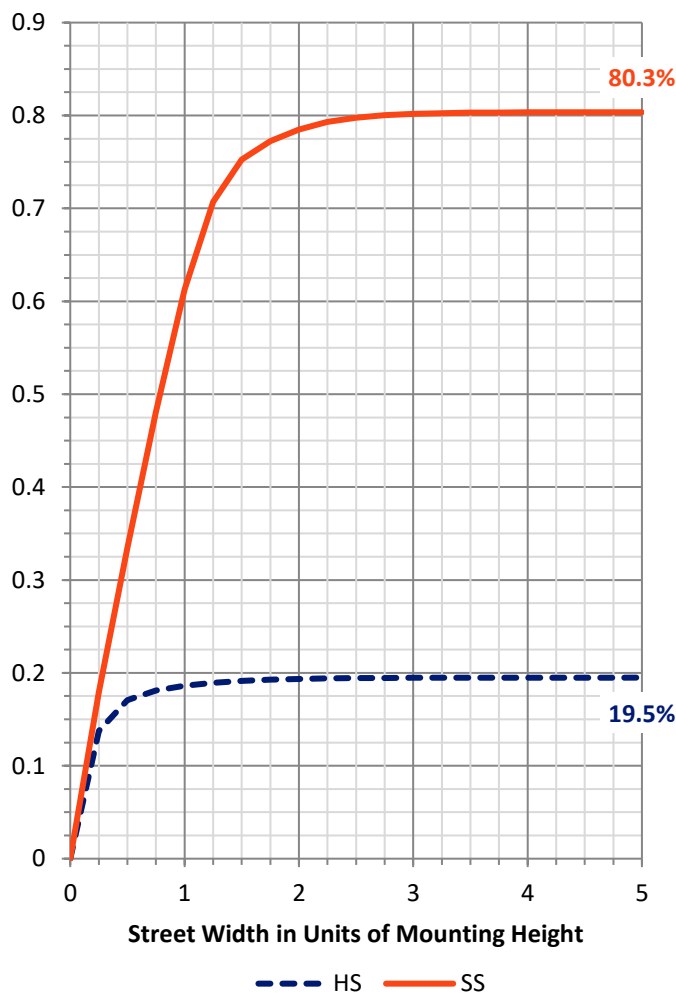
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2794.6	0.0	2794.6
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	11388.0	0.0	11388.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	14182.6	0.0	14182.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.0	3.1
10°-20°	1075.4	7.6
20°-30°	1516.9	10.7
30°-40°	2244.7	15.8
40°-50°	3238.3	22.8
50°-60°	3819.8	26.9
60°-70°	1704.0	12.0
70°-80°	146.5	1.0
80°-90°	0.1	0.0
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°	14182.6	100.0
0°-180°	14182.6	100.0

Coefficient of Utilization



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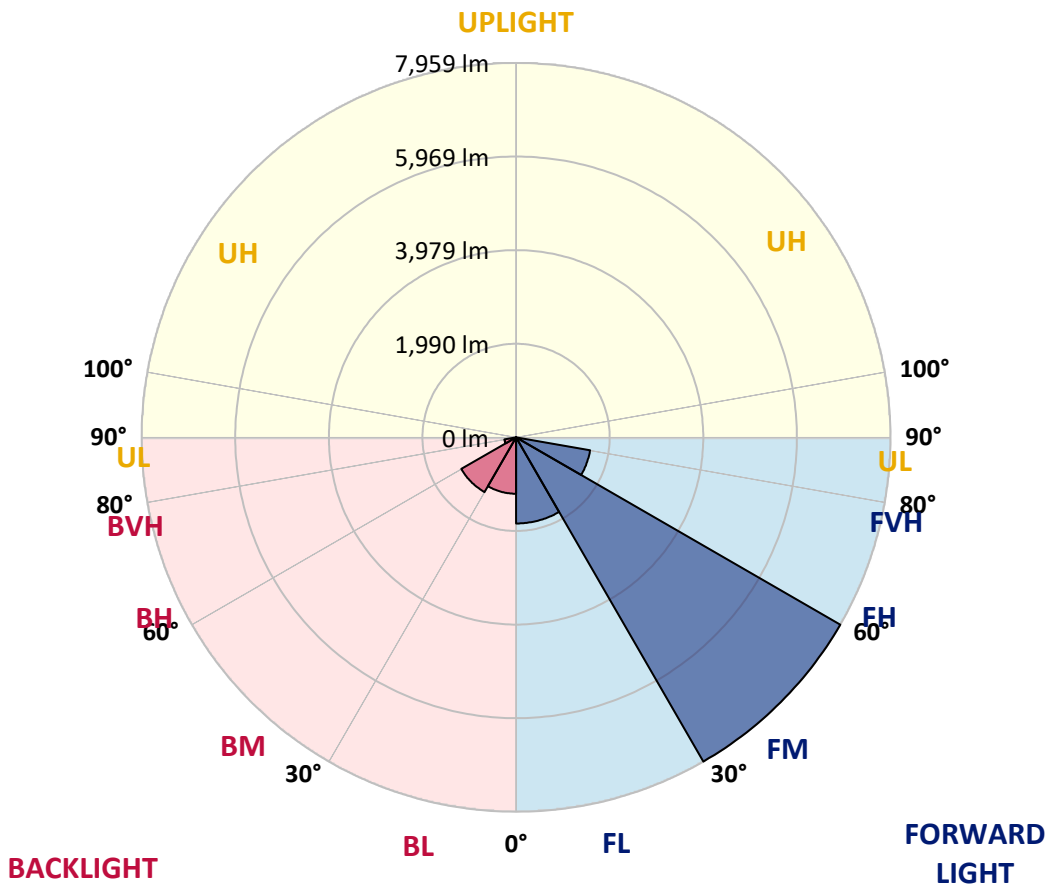
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.0	12.9			
FM (30°-60°)	7958.8	56.1			
FH (60°-80°)	1598.1	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1198.2	8.4	B3/2500		
BM (30°-60°)	1344.0	9.5	B2/2500		
BH (60°-80°)	252.3	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0
2.5°	4622.8	4626.3	4628.0	4674.8	4692.1	4761.4	4797.7	4816.8	4867.0	4925.8	4974.3
5°	4312.9	4307.7	4316.4	4375.2	4413.3	4515.5	4570.9	4609.0	4719.8	4858.3	4974.3
7.5°	4042.8	4053.2	4063.6	4127.7	4184.8	4295.6	4375.2	4432.4	4586.5	4792.5	4988.2
10°	3852.4	3852.4	3867.9	3940.7	4008.2	4145.0	4224.6	4297.3	4480.9	4733.6	5003.7
12.5°	3712.1	3713.9	3732.9	3816.0	3893.9	4035.9	4119.0	4190.0	4392.6	4674.8	5007.2
15°	3646.3	3641.1	3656.7	3745.0	3831.6	3964.9	4051.5	4120.7	4330.2	4641.9	5024.5
17.5°	3629.0	3625.6	3637.7	3724.2	3812.5	3942.4	4027.2	4096.5	4321.6	4652.3	5076.5
20°	3679.2	3672.3	3667.1	3741.6	3824.7	3952.8	4041.1	4119.0	4363.1	4709.4	5156.1
22.5°	3798.7	3798.7	3786.6	3822.9	3878.3	3994.3	4086.1	4188.3	4472.2	4823.7	5273.8
25°	4018.6	4001.3	3978.8	3994.3	3987.4	4060.1	4169.2	4311.2	4678.2	5012.4	5417.6
27.5°	4269.6	4285.2	4247.1	4248.9	4188.3	4162.3	4288.7	4503.4	4984.7	5279.0	5630.5
30°	4610.7	4598.6	4600.3	4595.1	4454.9	4332.0	4468.7	4754.4	5370.8	5685.9	5907.5
32.5°	4877.4	4894.7	4951.8	4984.7	4801.2	4603.8	4749.2	5095.5	5810.6	6149.9	6246.9
35°	5159.6	5190.7	5306.7	5414.1	5260.0	5033.2	5189.0	5547.4	6224.4	6608.8	6636.5
37.5°	5457.4	5519.7	5658.2	5846.9	5822.7	5621.9	5763.8	6078.9	6549.9	6885.8	6958.5
40°	5798.5	5859.1	6085.9	6357.7	6414.8	6369.8	6416.6	6600.1	6764.6	6897.9	7097.0
42.5°	6172.4	6255.5	6543.0	6906.6	7121.2	7161.1	7052.0	7032.9	6858.1	6759.4	7067.6
45°	6613.9	6710.9	7036.4	7507.4	7848.4	7902.1	7713.4	7469.3	6916.9	6657.2	6979.3
47.5°	7109.1	7200.9	7524.7	8090.8	8598.1	8618.9	8289.9	7896.9	7091.8	6775.0	7046.8
50°	7275.3	7332.5	7613.0	8277.8	9212.8	9372.1	8895.9	8378.2	7443.3	7121.2	7375.8
52.5°	6704.0	6726.5	6970.6	7642.4	9088.1	10111.4	9780.7	9096.8	8068.3	7649.3	7883.1
55°	5311.9	5275.6	5473.0	6089.3	7898.6	9960.7	10582.3	10225.7	8873.4	8269.2	8542.7
57.5°	3715.6	3672.3	3627.3	4044.6	5893.7	8444.0	9751.2	10383.2	9640.4	8883.8	9254.3
60°	3054.2	3012.6	2794.5	2602.3	3563.2	6063.4	7490.0	8679.5	9578.1	8852.7	9231.8
62.5°	2638.7	2614.4	2526.1	2264.7	2096.7	3461.1	4690.4	5829.6	7349.8	6951.6	6972.3
65°	2072.5	2065.6	2126.2	2153.9	1854.3	1914.9	2392.8	3030.0	3973.6	3746.8	3552.8
67.5°	1416.3	1400.7	1515.0	1863.0	1783.3	1511.5	1400.7	1412.8	1719.3	1051.0	834.5
70°	900.3	864.0	865.7	1154.8	1450.9	1192.9	1080.4	950.5	855.3	155.8	176.6
72.5°	576.6	554.0	476.1	521.2	671.8	581.8	586.9	505.6	337.6	83.1	97.0
75°	242.4	223.4	171.4	136.8	135.0	84.8	74.5	69.3	46.7	46.7	50.2
77.5°	1.7	0.0	0.0	1.7	3.5	1.7	1.7	3.5	6.9	10.4	12.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0	4976.0
2.5°	5003.7	4962.2	5008.9	5026.3	5024.5	5026.3	4976.0	4941.4	4939.7	4896.4	4875.6
5°	5022.8	4989.9	5024.5	5002.0	4948.3	4880.8	4790.8	4712.9	4678.2	4628.0	4603.8
7.5°	5059.2	5024.5	5019.3	4929.3	4796.0	4654.0	4494.7	4352.7	4276.6	4184.8	4190.0
10°	5085.1	5045.3	4977.8	4794.2	4572.6	4345.8	4108.6	3897.4	3764.1	3641.1	3620.4
12.5°	5095.5	5036.6	4879.1	4602.1	4290.4	3994.3	3646.3	3345.1	3137.3	2976.3	2953.8
15°	5114.6	5019.3	4752.7	4370.1	3942.4	3523.4	3080.2	2668.1	2392.8	2207.5	2223.1
17.5°	5144.0	5000.3	4610.7	4110.3	3568.4	2976.3	2377.2	1904.5	1651.8	1544.4	1546.1
20°	5185.5	4977.8	4454.9	3824.7	3120.0	2358.2	1662.1	1305.5	1234.5	1231.0	1225.8
22.5°	5240.9	4955.3	4288.7	3511.3	2588.4	1651.8	1106.4	995.6	1025.0	1082.1	1092.5
25°	5306.7	4927.6	4103.4	3158.1	2008.4	1083.9	829.3	812.0	883.0	959.2	976.5
27.5°	5408.9	4913.7	3892.2	2756.4	1409.4	777.4	678.7	689.1	753.2	817.2	832.8
30°	5582.0	4939.7	3661.9	2306.2	905.5	619.8	588.7	604.3	638.9	671.8	685.6
32.5°	5817.5	5015.9	3438.6	1814.5	645.8	538.5	531.5	540.2	554.0	573.1	578.3
35°	6092.8	5147.5	3208.3	1298.6	533.3	491.7	484.8	484.8	491.7	495.2	496.9
37.5°	6319.6	5286.0	2991.9	864.0	477.9	455.4	445.0	439.8	438.0	441.5	443.2
40°	6418.3	5343.1	2756.4	628.5	438.0	422.5	406.9	391.3	391.3	403.4	405.1
42.5°	6349.0	5279.0	2484.6	519.4	410.3	387.8	363.6	349.7	356.7	368.8	372.3
45°	6201.9	5121.5	2185.0	458.8	382.6	353.2	325.5	316.8	323.8	339.4	342.8
47.5°	6177.6	5017.6	1826.6	419.0	353.2	323.8	294.3	285.7	294.3	306.5	309.9
50°	6418.3	5107.6	1428.4	384.4	325.5	292.6	268.4	259.7	264.9	271.8	275.3
52.5°	6858.1	5441.8	1153.1	351.5	292.6	261.4	245.9	235.5	235.5	242.4	244.1
55°	7507.4	6025.3	995.6	313.4	254.5	237.2	223.4	213.0	213.0	216.4	218.2
57.5°	8255.3	6731.7	1031.9	263.2	223.4	214.7	202.6	193.9	197.4	197.4	197.4
60°	8151.4	6679.7	1104.6	221.6	197.4	193.9	183.5	180.1	188.7	181.8	178.3
62.5°	6004.5	4614.2	578.3	181.8	169.7	166.2	159.3	166.2	178.3	159.3	152.4
65°	2915.7	2233.5	232.0	148.9	143.7	140.2	136.8	147.2	154.1	124.7	117.7
67.5°	685.6	557.5	150.6	126.4	119.5	112.5	116.0	117.7	112.5	84.8	81.4
70°	178.3	174.9	117.7	105.6	95.2	88.3	88.3	86.6	74.5	53.7	50.2
72.5°	97.0	95.2	84.8	79.6	65.8	58.9	60.6	53.7	41.6	31.2	29.4
75°	48.5	51.9	48.5	45.0	36.4	32.9	32.9	29.4	20.8	12.1	12.1
77.5°	10.4	12.1	12.1	10.4	8.7	6.9	6.9	8.7	3.5	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)