

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: P640256

Luminaire Tested: GWS-SA5D-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18550.7 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

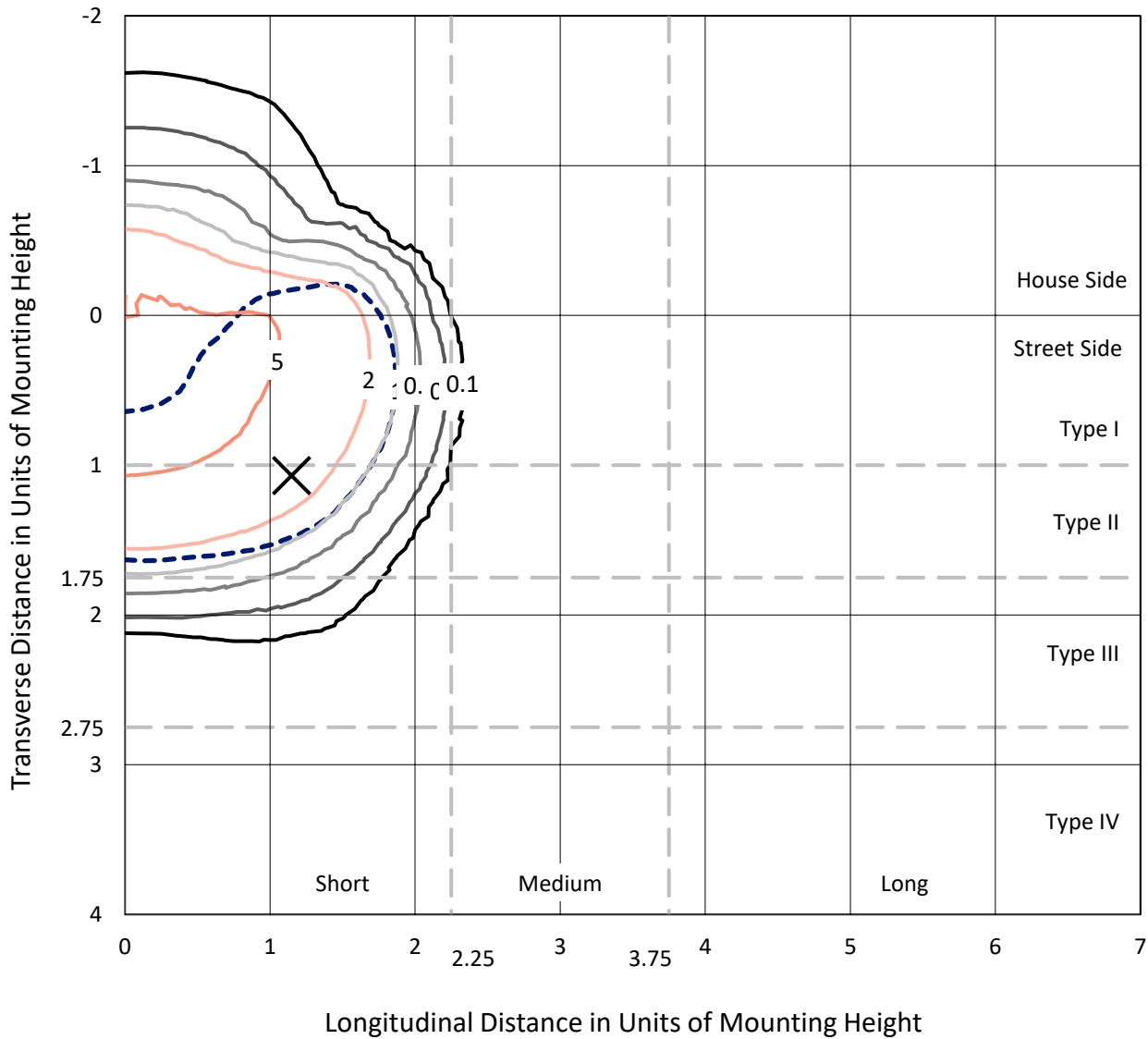
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

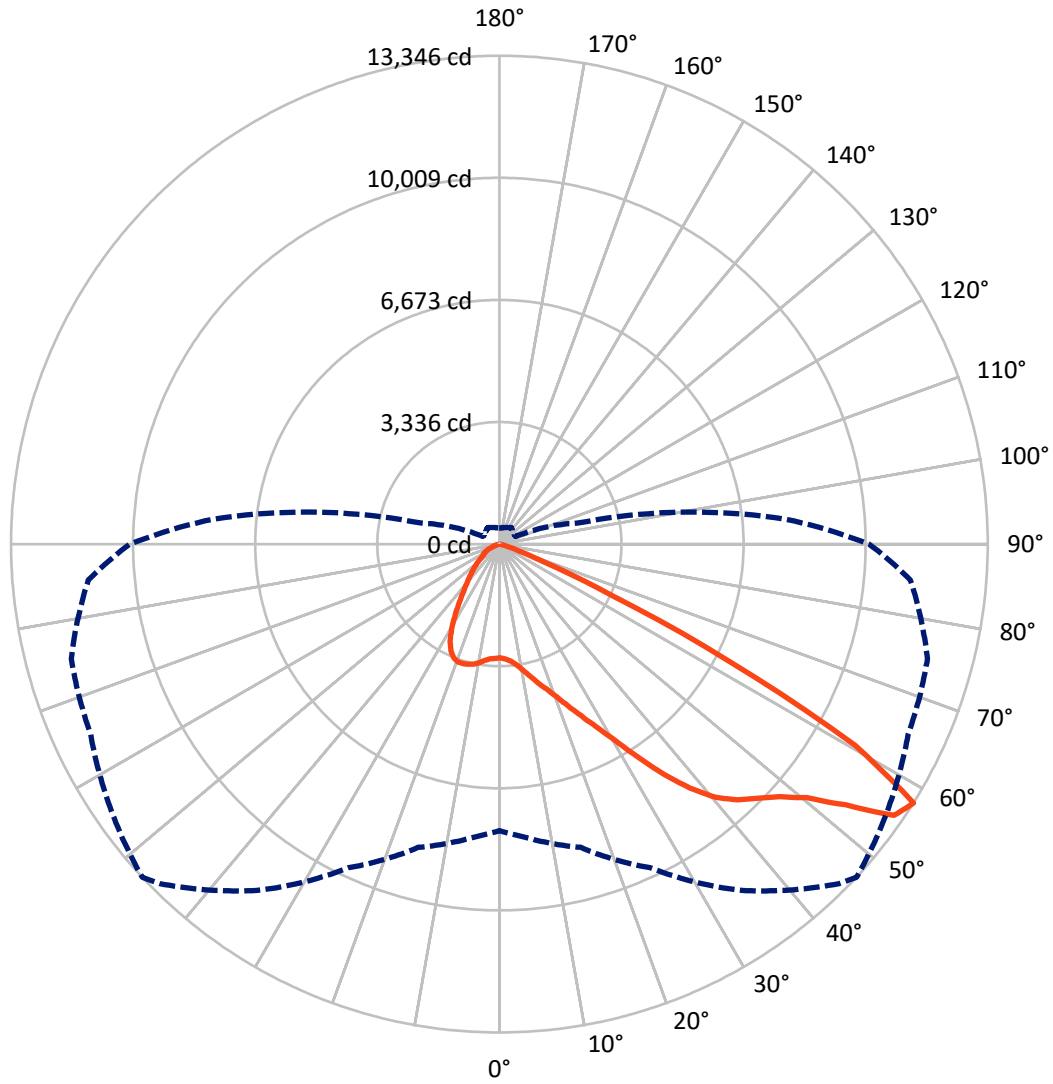
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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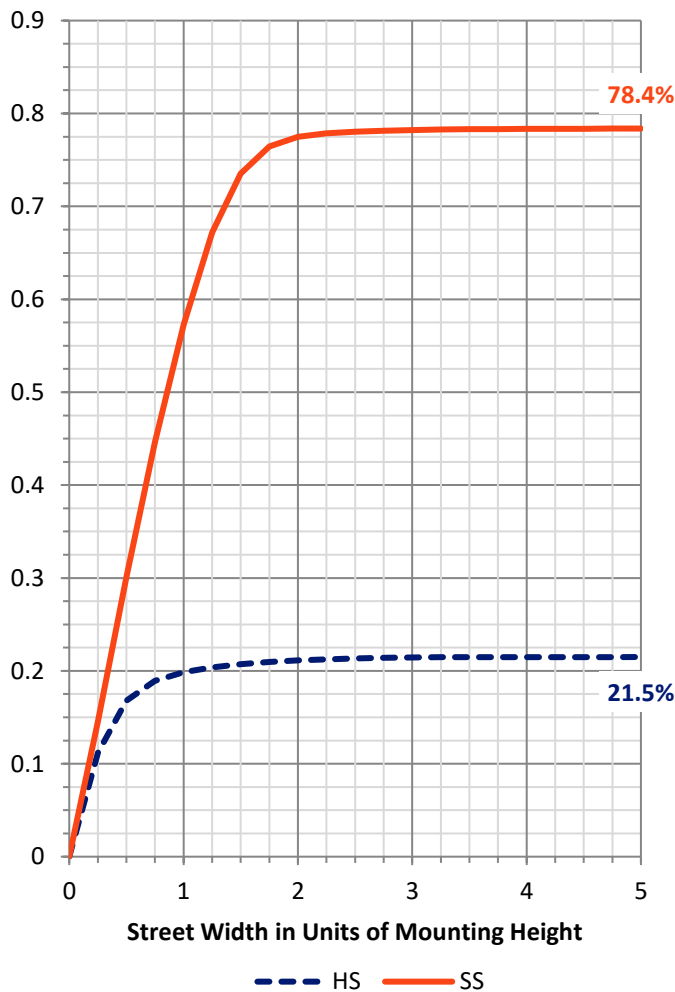
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4024.6	0.0	4024.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14526.1	0.0	14526.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	18550.7	0.0	18550.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.0	1.7
10°-20°	1042.5	5.6
20°-30°	1935.6	10.4
30°-40°	3098.6	16.7
40°-50°	4529.4	24.4
50°-60°	5590.1	30.1
60°-70°	1867.9	10.1
70°-80°	174.0	0.9
80°-90°	3.6	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°	18550.7	100.0
0°-180°	18550.7	100.0

Coefficient of Utilization



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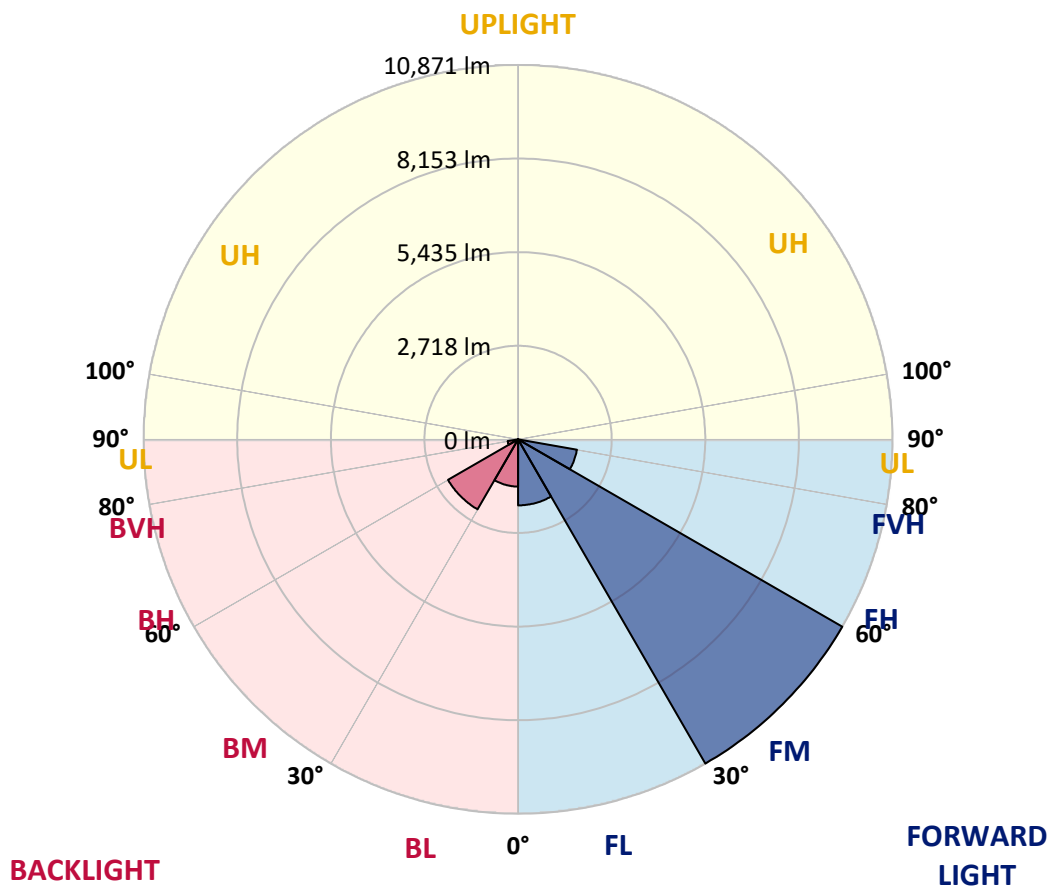
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1917.2	10.3			
FM (30°-60°)	10870.6	58.6			
FH (60°-80°)	1736.0	9.4			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1369.9	7.4	B3/2500		
BM (30°-60°)	2347.5	12.7	B2/2500		
BH (60°-80°)	306.0	1.6	B1/500		G1/500
BVH (80°-90°)	1.1	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°	47°	55°	65°	75°	85°
0°	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4
2.5°	3137.7	3135.6	3133.4	3146.3	3142.0	3139.9	3144.2	3144.2	3144.2	3131.2	3105.4
5°	3213.1	3213.1	3210.9	3223.9	3213.1	3206.6	3208.8	3208.8	3200.2	3176.5	3144.2
7.5°	3331.5	3327.2	3322.9	3335.8	3325.1	3322.9	3327.2	3314.3	3299.2	3260.5	3215.2
10°	3501.7	3501.7	3495.2	3508.1	3499.5	3495.2	3495.2	3486.6	3458.6	3398.3	3331.5
12.5°	3736.4	3725.6	3710.6	3699.8	3695.5	3693.3	3695.5	3682.6	3652.4	3574.9	3482.3
15°	3992.7	3984.1	3960.4	3943.1	3919.4	3915.1	3928.1	3917.3	3887.1	3781.6	3650.3
17.5°	4315.7	4326.5	4266.2	4229.6	4160.6	4156.3	4160.6	4177.9	4156.3	4020.7	3829.0
20°	4591.4	4600.0	4554.7	4528.9	4466.4	4438.4	4447.1	4475.1	4451.4	4292.0	4025.0
22.5°	4886.4	4897.2	4849.8	4795.9	4767.9	4767.9	4800.2	4839.0	4806.7	4597.8	4248.9
25°	5239.6	5248.2	5209.4	5138.4	5088.8	5151.3	5198.6	5302.0	5248.2	4963.9	4513.8
27.5°	5644.4	5646.6	5590.6	5517.4	5491.5	5607.8	5655.2	5814.6	5793.0	5375.2	4793.8
30°	6077.3	6079.4	6066.5	6017.0	5993.3	6146.2	6210.8	6441.2	6426.2	5885.6	5175.0
32.5°	6527.4	6527.4	6551.1	6546.8	6574.8	6824.6	6927.9	7190.7	7175.6	6510.2	5648.7
35°	6979.6	6981.8	7022.7	7126.1	7242.4	7574.0	7709.7	8028.4	7993.9	7257.4	6253.9
37.5°	7494.3	7472.8	7528.8	7683.8	7942.3	8325.6	8454.8	8758.5	8719.7	8021.9	7044.2
40°	8114.5	8075.8	8075.8	8256.7	8549.6	8991.0	9100.9	9251.6	9120.2	8640.0	7819.5
42.5°	8799.4	8762.8	8715.4	8874.7	9120.2	9464.8	9555.3	9514.3	9406.7	9223.6	8702.5
45°	9492.8	9436.8	9469.1	9566.0	9708.2	9871.8	9906.3	9716.8	9667.2	9718.9	9432.5
47.5°	10020.4	9981.7	10061.3	10197.0	10313.3	10337.0	10313.3	10050.6	10046.3	10229.3	9938.6
50°	10197.0	10201.3	10421.0	10718.2	10905.5	10924.9	10892.6	10591.1	10550.2	10604.0	10212.1
52.5°	10214.2	10231.5	10552.4	11118.7	11629.1	11861.7	11835.9	11510.7	11110.1	11052.0	10625.6
55°	9798.6	9899.8	10347.8	11174.7	12260.1	13003.1	13089.2	12466.9	11872.5	11822.9	11515.0
57.5°	7832.4	8039.2	8579.7	9757.7	11555.9	13121.5	13345.5	12897.6	12322.6	12111.5	11275.9
60°	4681.8	4938.1	5457.1	6902.1	8795.1	10784.9	11170.4	11232.9	10968.0	10358.5	8650.8
62.5°	2009.3	1987.7	2627.3	3734.2	5231.0	6854.7	7029.2	7300.5	7530.9	6893.5	5250.3
65°	689.1	749.4	1042.3	1684.1	2618.7	3182.9	3338.0	3581.3	3908.7	3226.0	1923.1
67.5°	426.4	452.2	600.8	994.9	1412.7	1391.2	1322.3	1283.5	1249.1	855.0	527.6
70°	310.1	331.6	422.1	684.8	949.7	667.6	579.3	469.5	521.2	480.2	374.7
72.5°	208.9	226.1	290.7	415.6	486.7	325.2	301.5	342.4	413.5	394.1	305.8
75°	124.9	135.7	165.8	202.4	198.1	168.0	170.1	241.2	316.6	295.0	217.5
77.5°	86.1	90.4	109.8	131.4	96.9	51.7	47.4	66.8	107.7	107.7	73.2
80°	21.5	28.0	28.0	17.2	15.1	12.9	12.9	19.4	30.1	21.5	10.8
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3	4.3	4.3
85°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3	4.3
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3
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°	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4	3105.4
2.5°	3120.5	3094.6	3111.9	3107.6	3120.5	3124.8	3105.4	3101.1	3103.3	3077.4	3068.8
5°	3150.6	3120.5	3129.1	3120.5	3135.6	3148.5	3142.0	3150.6	3161.4	3142.0	3133.4
7.5°	3215.2	3185.1	3182.9	3170.0	3191.5	3200.2	3198.0	3221.7	3243.2	3230.3	3217.4
10°	3327.2	3286.3	3282.0	3271.2	3277.7	3284.2	3260.5	3264.8	3284.2	3269.1	3262.6
12.5°	3465.0	3415.5	3404.7	3378.9	3378.9	3346.6	3294.9	3284.2	3299.2	3288.5	3277.7
15°	3613.6	3546.9	3529.7	3484.4	3441.4	3381.1	3327.2	3314.3	3325.1	3312.1	3303.5
17.5°	3779.5	3704.1	3648.1	3568.4	3473.7	3402.6	3342.3	3314.3	3297.1	3271.2	3269.1
20°	3943.1	3844.1	3749.3	3622.3	3497.4	3389.7	3290.6	3217.4	3154.9	3116.2	3101.1
22.5°	4132.6	3986.2	3833.3	3654.6	3475.8	3312.1	3137.7	3012.8	2905.1	2868.5	2851.3
25°	4335.1	4145.6	3917.3	3684.7	3402.6	3139.9	2903.0	2717.8	2575.6	2528.3	2508.9
27.5°	4559.0	4298.5	4003.4	3678.2	3251.8	2894.4	2579.9	2349.5	2209.5	2166.5	2181.5
30°	4843.3	4496.6	4111.1	3611.5	3025.7	2549.8	2181.5	1987.7	1882.2	1841.3	1843.4
32.5°	5222.3	4780.9	4268.3	3469.4	2735.0	2157.8	1834.8	1692.7	1621.6	1567.8	1563.5
35°	5765.0	5213.7	4414.8	3241.1	2381.8	1809.0	1574.2	1462.3	1363.2	1300.7	1311.5
37.5°	6415.4	5758.6	4494.4	2933.1	1985.6	1537.6	1378.3	1264.1	1152.1	1059.5	1070.3
40°	7186.4	6471.4	4488.0	2528.3	1623.8	1352.4	1214.6	1081.1	941.1	857.1	865.7
42.5°	8045.6	7145.5	4348.0	2099.7	1346.0	1201.7	1057.4	889.4	753.7	702.1	704.2
45°	8790.8	7692.5	4102.5	1656.1	1132.8	1055.2	893.7	721.4	661.1	624.5	622.4
47.5°	9342.1	8093.0	3751.5	1302.9	960.5	921.7	734.4	646.1	598.7	568.5	564.2
50°	9650.0	8233.0	3363.8	1020.8	811.9	781.7	656.8	585.8	553.5	534.1	529.8
52.5°	10063.5	8401.0	3086.0	805.4	680.5	639.6	605.1	544.8	523.3	508.2	501.8
55°	10718.2	8726.2	2844.8	639.6	566.4	557.8	570.7	521.2	508.2	484.5	475.9
57.5°	10102.3	7838.9	2209.5	495.3	478.1	510.4	551.3	497.5	465.2	443.6	435.0
60°	7108.8	5211.6	1111.2	398.4	426.4	478.1	519.0	450.1	417.8	422.1	417.8
62.5°	3919.4	2607.9	499.6	333.8	370.4	422.1	443.6	389.8	368.3	404.9	411.3
65°	1281.4	887.3	288.6	258.4	292.9	344.6	383.3	370.4	366.1	409.2	422.1
67.5°	394.1	292.9	196.0	185.2	202.4	254.1	323.0	400.6	430.7	443.6	450.1
70°	295.0	230.4	168.0	157.2	165.8	193.8	273.5	333.8	314.4	316.6	312.3
72.5°	236.9	183.1	144.3	137.8	137.8	133.5	144.3	180.9	204.6	215.4	215.4
75°	165.8	129.2	109.8	101.2	79.7	64.6	58.1	58.1	51.7	49.5	47.4
77.5°	56.0	47.4	43.1	34.5	23.7	19.4	17.2	15.1	10.8	6.5	4.3
80°	8.6	6.5	4.3	4.3	4.3	2.2	2.2	2.2	0.0	0.0	0.0
82.5°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	0.0	0.0	0.0	0.0
85°	4.3	4.3	4.3	4.3	4.3	2.2	2.2	0.0	0.0	0.0	0.0
87.5°	4.3	4.3	4.3	4.3	2.2	2.2	2.2	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)