

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: P640671

Luminaire Tested: GWS-SA5E-735-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29351.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

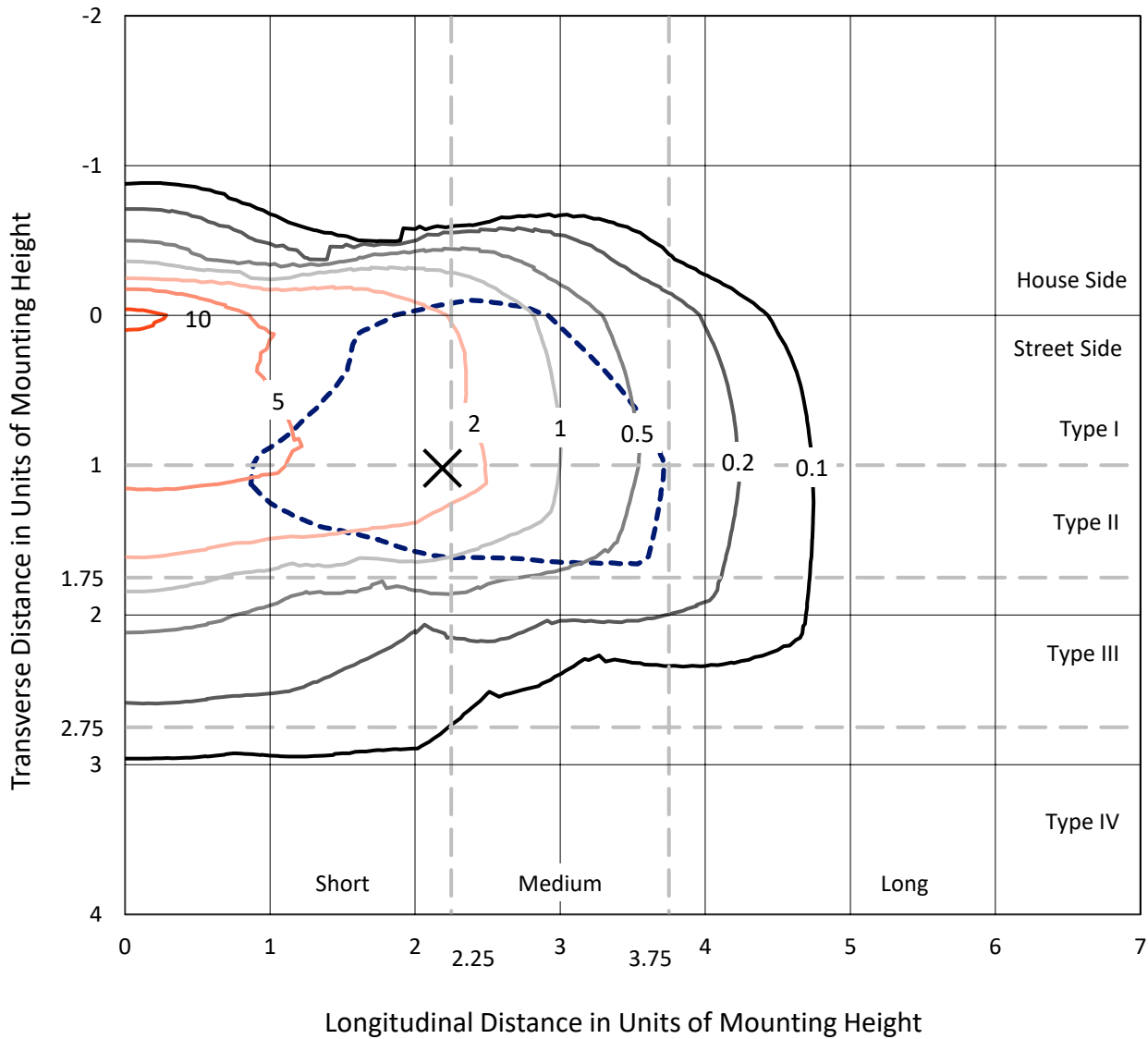
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

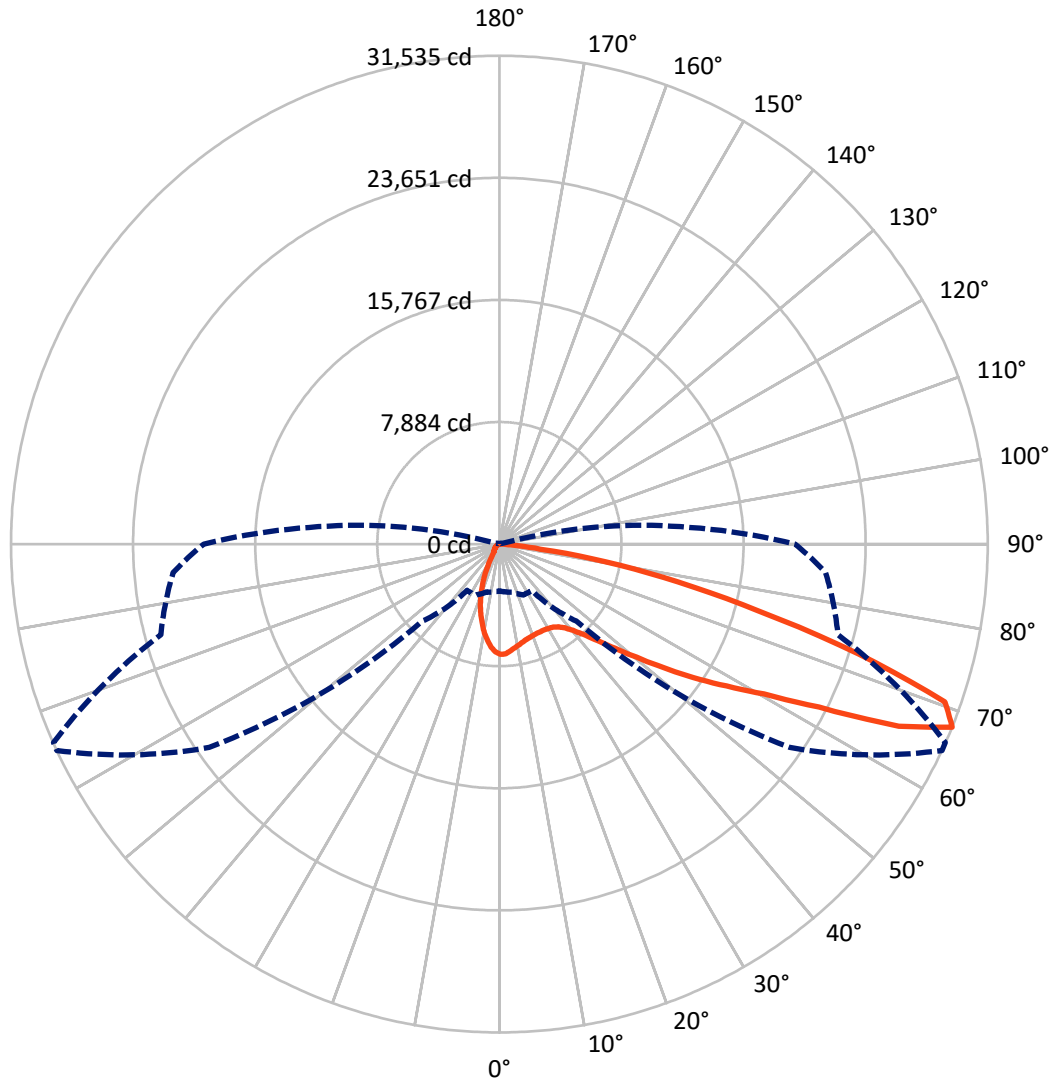
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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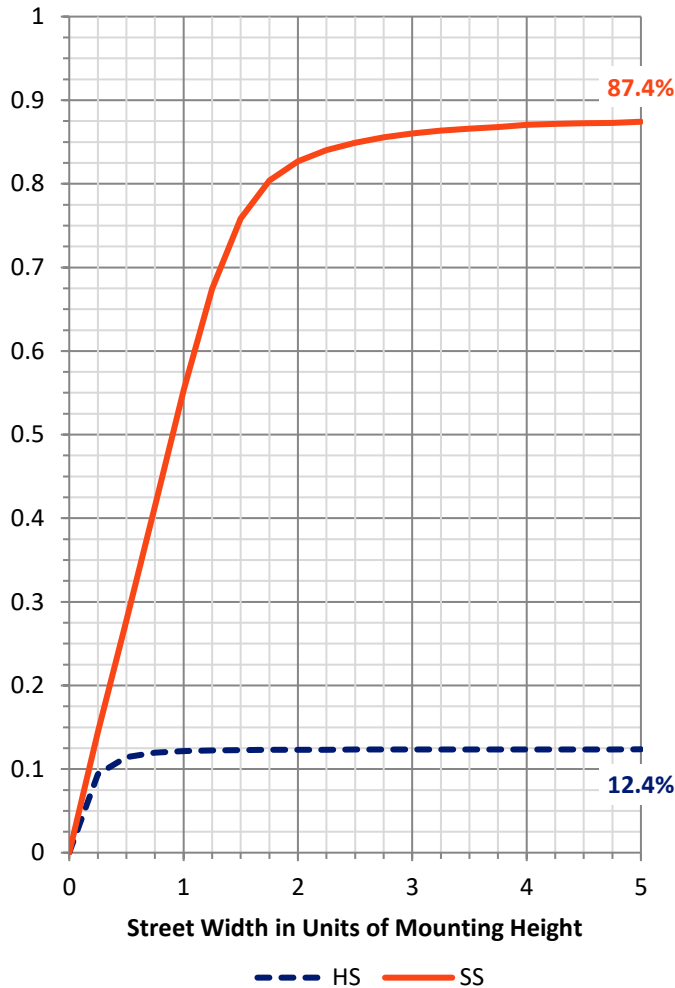
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.1	0.0	3665.1
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	25686.1	0.0	25686.1
	% Fixture	87.5	0.0	87.5
Total	Lumens	29351.2	0.0	29351.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.2	2.0
10°-20°	1329.1	4.5
20°-30°	1899.2	6.5
30°-40°	2763.0	9.4
40°-50°	4327.4	14.7
50°-60°	6750.8	23.0
60°-70°	7415.4	25.3
70°-80°	3946.5	13.4
80°-90°	328.6	1.1
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°	29351.2	100.0
0°-180°	29351.2	100.0

Coefficient of Utilization



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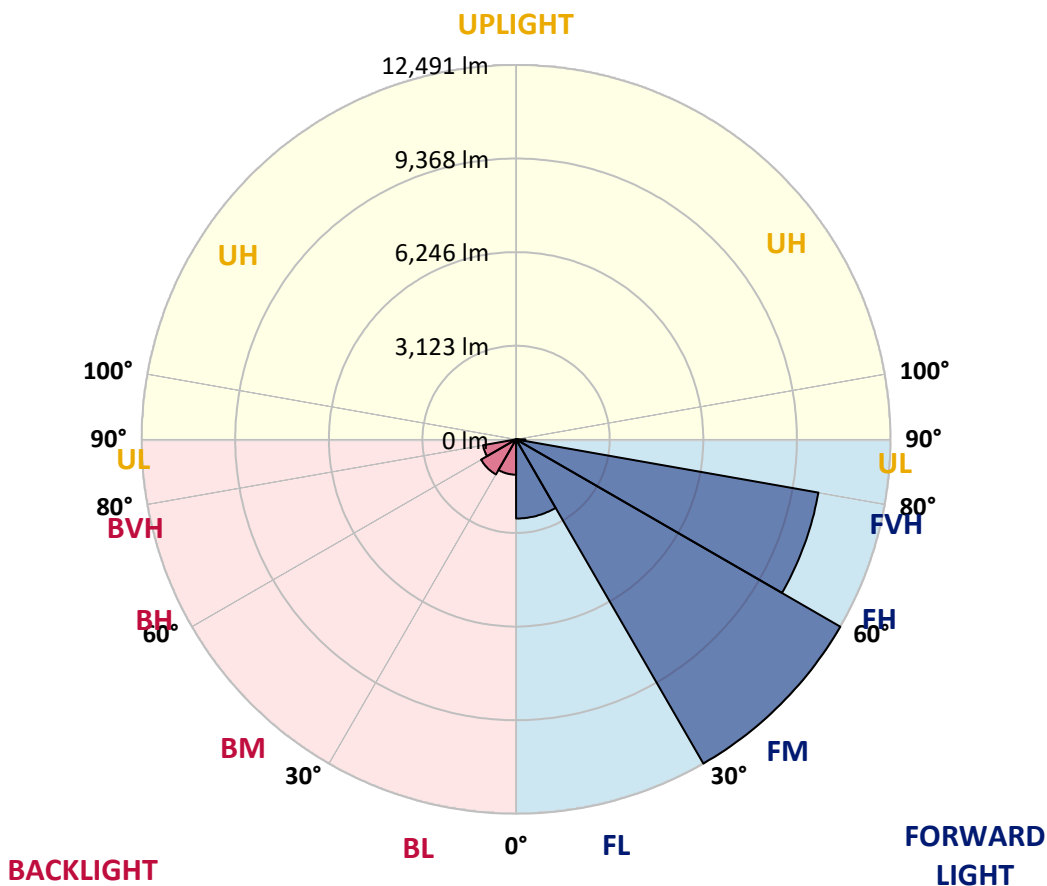
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2641.4	9.0			
FM (30°-60°)	12491.2	42.6			
FH (60°-80°)	10242.4	34.9			G4/12000
FVH (80°-90°)	311.0	1.1			G3/500
BL (0°-30°)	1178.0	4.0	B3/2500		
BM (30°-60°)	1350.0	4.6	B2/2500		
BH (60°-80°)	1119.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6
2.5°	6871.7	6893.0	6863.8	6935.5	6948.7	7028.3	7073.5	7105.3	7102.7	7142.5	7142.5
5°	6468.3	6489.5	6473.6	6550.6	6611.6	6736.4	6839.9	6959.3	6964.6	7086.7	7131.9
7.5°	6125.9	6128.6	6128.6	6224.1	6303.7	6457.7	6611.6	6794.8	6816.0	7004.5	7123.9
10°	5844.6	5852.5	5855.2	5964.0	6051.6	6237.4	6433.8	6654.1	6678.0	6932.8	7118.6
12.5°	5650.8	5653.5	5664.1	5778.2	5873.8	6067.5	6266.6	6518.7	6550.6	6850.5	7094.7
15°	5557.9	5552.6	5557.9	5653.5	5749.0	5934.8	6139.2	6409.9	6444.4	6781.5	7097.4
17.5°	5552.6	5544.6	5539.3	5611.0	5672.0	5836.6	6043.6	6338.3	6375.4	6749.7	7126.6
20°	5629.6	5624.3	5597.7	5629.6	5642.8	5778.2	5982.6	6282.5	6319.7	6744.3	7190.3
22.5°	5831.3	5818.0	5778.2	5749.0	5677.4	5757.0	5940.1	6242.7	6285.2	6757.6	7272.5
25°	6131.2	6125.9	6075.5	6003.8	5820.7	5788.8	5942.8	6242.7	6282.5	6773.5	7360.1
27.5°	6582.4	6550.6	6486.9	6362.1	6099.4	5913.6	5995.9	6258.6	6298.4	6794.8	7431.8
30°	7041.6	7039.0	7017.7	6890.3	6500.2	6152.5	6107.3	6301.1	6338.3	6813.4	7498.1
32.5°	7516.7	7524.7	7577.8	7479.6	7052.2	6508.1	6309.1	6388.7	6415.2	6850.5	7556.5
35°	7967.9	7983.9	8124.5	8159.0	7723.8	7046.9	6638.2	6563.9	6566.5	6932.8	7633.5
37.5°	8400.6	8453.7	8679.3	8846.5	8559.8	7699.9	7113.3	6861.1	6839.9	7097.4	7750.3
40°	8891.6	8992.5	9276.5	9560.5	9470.2	8562.5	7760.9	7317.7	7272.5	7399.9	7960.0
42.5°	9435.7	9544.5	9921.4	10319.6	10362.0	9605.6	8570.4	7983.9	7906.9	7909.5	8352.8
45°	10019.6	10165.6	10603.6	11176.9	11434.3	10768.1	9568.4	8883.6	8806.7	8692.5	8984.5
47.5°	10786.7	10914.1	11336.1	11997.0	12490.7	12015.6	10877.0	10040.9	9900.2	9733.0	9966.6
50°	11447.6	11559.1	11922.7	12750.8	13778.0	13624.1	12360.7	11487.4	11352.1	11068.1	11261.8
52.5°	11593.6	11681.2	12015.6	12947.2	14762.7	15654.5	14178.8	13236.5	13141.0	12615.5	12689.8
55°	10938.0	11070.7	11370.6	12405.8	15020.2	17639.9	16538.4	15208.6	15009.6	14170.8	14303.5
57.5°	9281.8	9518.0	9799.3	11145.0	14322.1	18696.3	19834.9	17297.5	17117.0	15667.8	15670.5
60°	6802.7	6993.8	7182.3	8413.8	12665.9	18624.6	22826.2	19643.8	19314.7	16891.4	16846.3
62.5°	4947.4	5045.7	5043.0	5480.9	8697.8	17398.3	24397.5	23179.2	22412.1	18199.9	17942.5
65°	3891.1	3888.4	4002.5	4145.9	4857.2	13430.3	24591.3	28341.7	27513.5	19954.3	19418.2
67.5°	3028.5	3086.8	3201.0	3623.0	3649.5	7028.3	22887.3	31534.7	31518.7	22632.4	21146.1
70°	2335.7	2415.3	2577.2	3193.0	3370.8	3933.5	17125.0	30523.4	30780.9	23829.5	19922.5
72.5°	1499.6	1494.3	1733.2	2579.9	3238.1	3277.9	9470.2	24246.2	24538.2	21584.0	16108.4
75°	838.7	844.0	979.4	1579.3	3017.8	3084.2	4690.0	17289.5	17520.4	16827.7	12376.6
77.5°	329.1	339.7	459.2	830.8	1990.7	2755.1	2786.9	11790.0	11824.5	10428.4	7591.0
80°	132.7	140.7	233.6	514.9	1213.0	1855.3	1990.7	6946.1	6805.4	4037.1	2208.3
82.5°	39.8	42.5	92.9	292.0	634.4	1319.1	1343.0	2664.8	2516.2	867.9	562.7
85°	2.7	2.7	21.2	90.2	225.6	331.8	894.5	867.9	769.7	217.6	249.5
87.5°	0.0	0.0	2.7	2.7	5.3	10.6	95.6	159.3	161.9	39.8	111.5
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°	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6	7118.6
2.5°	7142.5	7046.9	7039.0	6964.6	6890.3	6797.4	6688.6	6609.0	6553.2	6455.0	6436.5
5°	7131.9	7004.5	6885.0	6672.7	6436.5	6181.7	5958.7	5751.7	5621.6	5534.0	5496.9
7.5°	7110.6	6948.7	6672.7	6271.9	5876.4	5430.5	5082.8	4764.3	4546.7	4419.3	4363.5
10°	7094.7	6877.1	6428.5	5820.7	5207.6	4591.8	4063.6	3591.1	3328.4	3121.4	3086.8
12.5°	7062.9	6773.5	6115.3	5292.5	4501.5	3684.0	3009.9	2431.3	2030.5	1850.0	1786.3
15°	7031.0	6664.7	5802.1	4735.1	3731.8	2723.2	1905.7	1348.3	1072.3	987.4	982.1
17.5°	7025.7	6566.5	5462.4	4206.9	2924.9	1783.6	1085.6	873.2	814.8	793.6	793.6
20°	7041.6	6484.2	5127.9	3599.1	2131.3	1085.6	809.5	756.4	721.9	703.4	703.4
22.5°	7057.5	6399.3	4806.8	2986.0	1414.7	793.6	714.0	668.9	629.0	607.8	597.2
25°	7068.2	6306.4	4451.1	2370.2	923.7	690.1	626.4	568.0	520.2	493.7	493.7
27.5°	7065.5	6194.9	4092.8	1767.7	716.6	613.1	536.2	475.1	427.3	398.1	400.8
30°	7044.3	6072.8	3721.2	1234.2	626.4	536.2	459.2	395.5	347.7	323.8	321.2
32.5°	7028.3	5942.8	3291.2	867.9	562.7	469.8	390.2	329.1	289.3	270.7	268.1
35°	7009.8	5815.4	2882.5	660.9	507.0	406.1	329.1	278.7	246.8	230.9	230.9
37.5°	7015.1	5682.7	2439.2	568.0	451.2	353.0	281.3	238.9	212.3	196.4	193.8
40°	7097.4	5603.0	2003.9	514.9	400.8	305.2	244.2	207.0	180.5	164.6	161.9
42.5°	7301.7	5605.7	1587.2	475.1	355.7	260.1	212.3	177.8	153.9	135.4	132.7
45°	7710.5	5717.2	1218.3	432.6	307.9	225.6	183.1	151.3	127.4	111.5	108.8
47.5°	8379.3	6048.9	923.7	395.5	268.1	196.4	156.6	127.4	106.2	92.9	90.2
50°	9443.7	6648.8	727.3	350.4	225.6	169.9	132.7	106.2	87.6	74.3	71.7
52.5°	10723.0	7548.6	623.7	310.5	193.8	148.6	114.1	87.6	71.7	61.0	58.4
55°	12193.4	8623.5	576.0	270.7	164.6	127.4	92.9	71.7	58.4	50.4	45.1
57.5°	13541.8	9592.3	573.3	230.9	140.7	108.8	77.0	61.0	50.4	39.8	37.2
60°	14855.6	10401.8	538.8	191.1	122.1	90.2	66.4	50.4	42.5	34.5	31.9
62.5°	16047.4	11060.1	451.2	153.9	103.5	74.3	55.7	45.1	37.2	29.2	29.2
65°	17544.3	11898.8	345.0	124.7	84.9	61.0	47.8	39.8	34.5	26.5	26.5
67.5°	19091.7	12342.1	246.8	103.5	69.0	53.1	42.5	37.2	29.2	23.9	23.9
70°	17292.2	10428.4	177.8	84.9	58.4	45.1	37.2	34.5	29.2	23.9	21.2
72.5°	13504.6	7519.4	132.7	66.4	50.4	42.5	34.5	31.9	26.5	21.2	21.2
75°	10014.3	4384.8	100.9	53.1	39.8	34.5	34.5	31.9	26.5	21.2	18.6
77.5°	5443.8	1528.8	77.0	42.5	31.9	26.5	29.2	29.2	23.9	18.6	15.9
80°	1441.2	419.4	53.1	31.9	26.5	21.2	21.2	26.5	21.2	15.9	15.9
82.5°	419.4	122.1	37.2	26.5	21.2	18.6	18.6	18.6	15.9	13.3	10.6
85°	204.4	45.1	26.5	21.2	18.6	15.9	13.3	13.3	10.6	8.0	8.0
87.5°	90.2	18.6	21.2	18.6	18.6	13.3	10.6	8.0	8.0	5.3	2.7
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)