

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: P638061

Luminaire Tested: GWS-SA4E-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19763.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

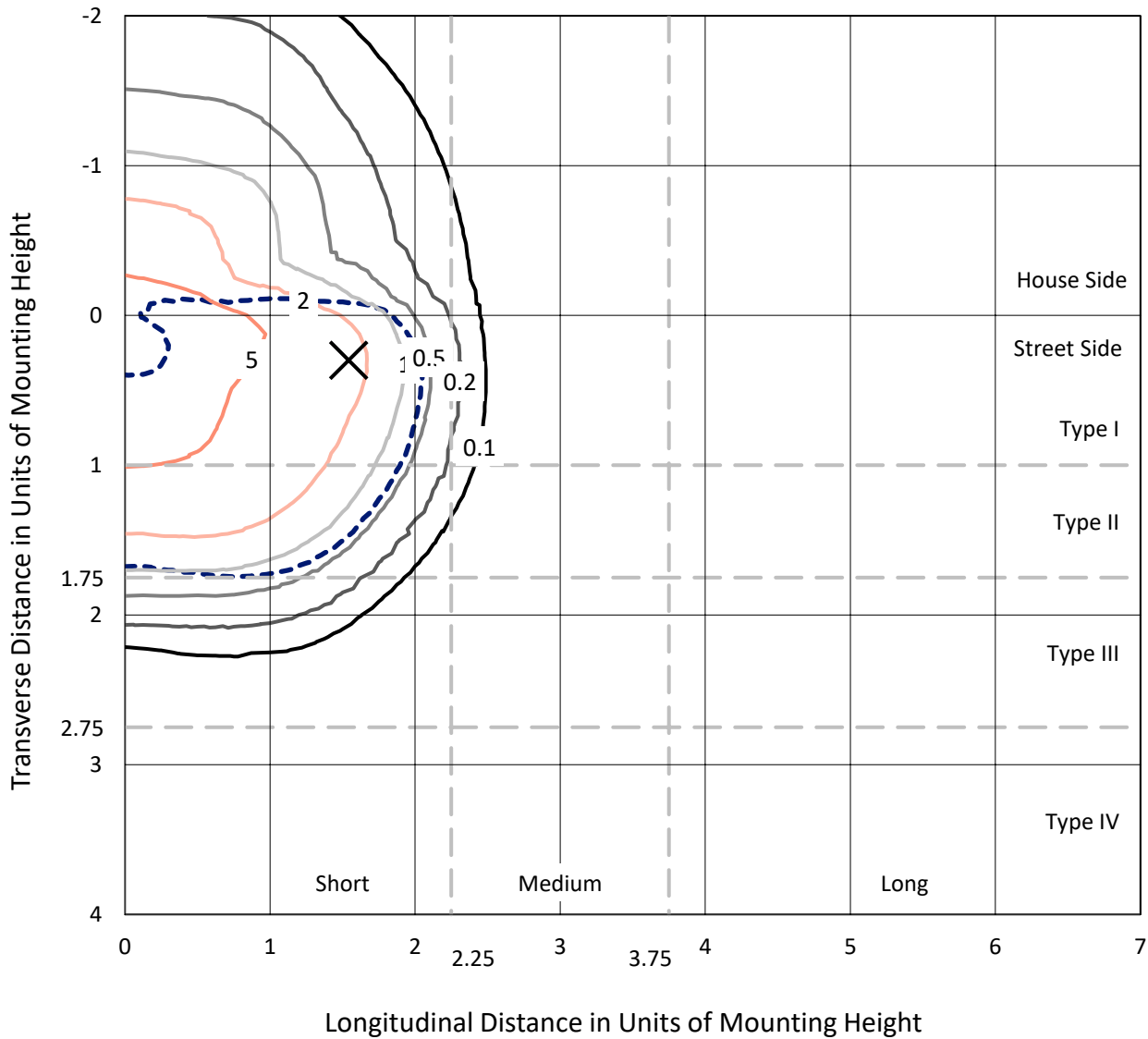
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

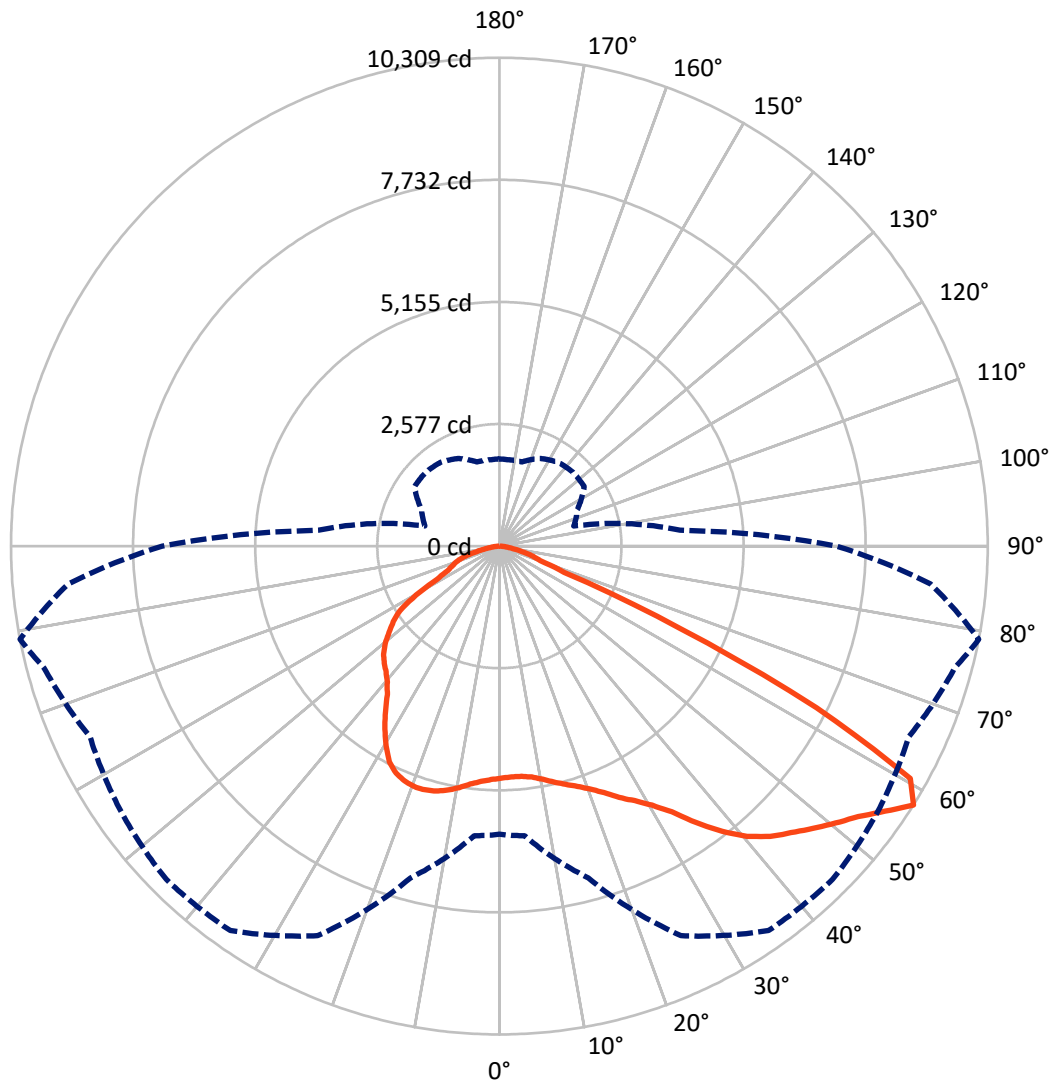
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA4E-722-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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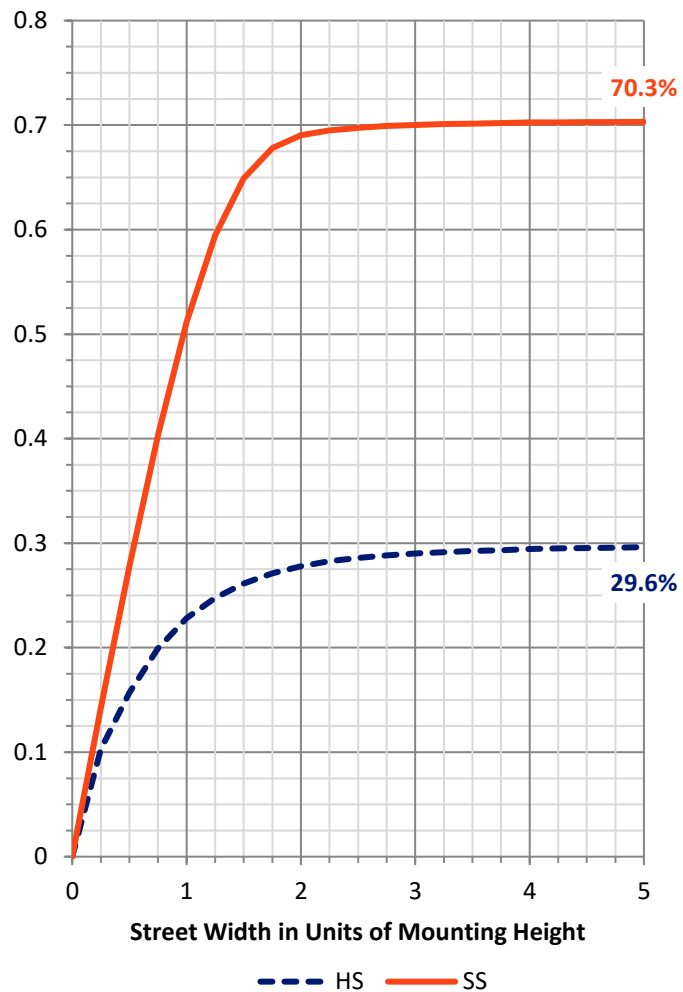
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5874.7	0.0	5874.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	13888.4	0.0	13888.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	19763.1	0.0	19763.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.6	2.3
10°-20°	1260.5	6.4
20°-30°	2136.6	10.8
30°-40°	3270.3	16.5
40°-50°	4360.6	22.1
50°-60°	5036.2	25.5
60°-70°	2617.0	13.2
70°-80°	556.3	2.8
80°-90°	72.0	0.4
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°	19763.1	100.0
0°-180°	19763.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638061

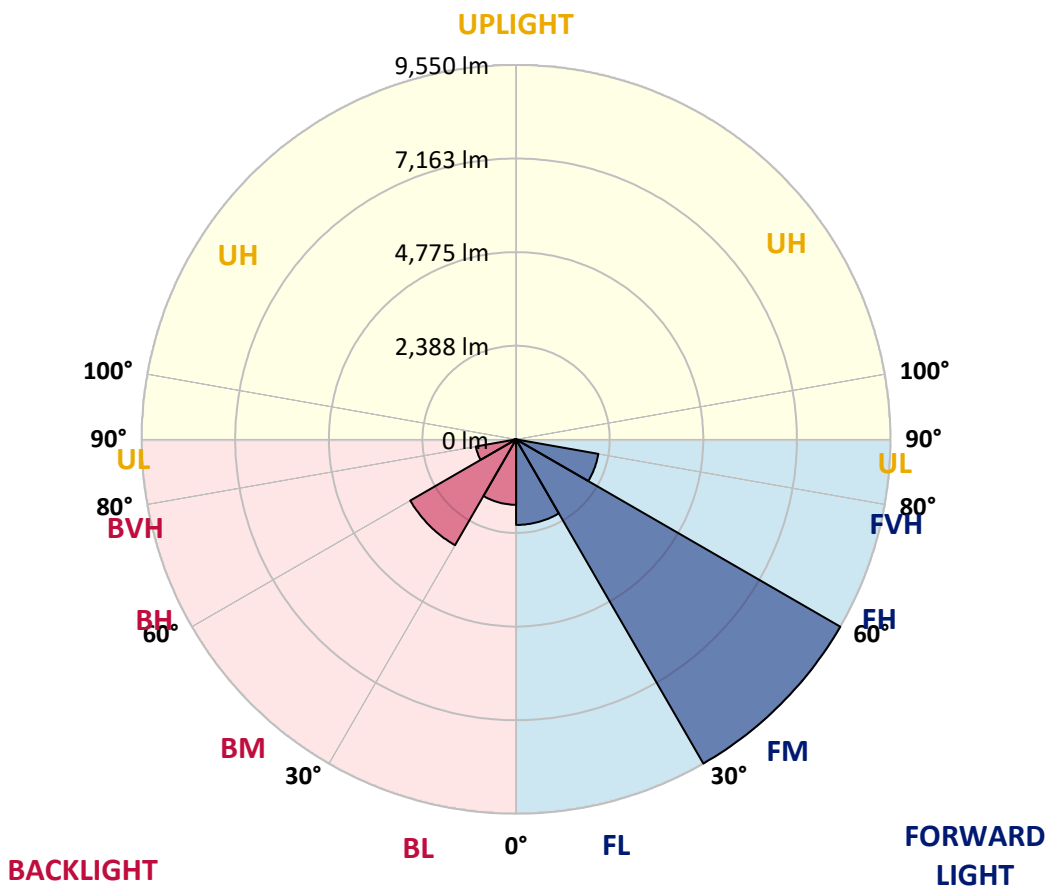
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2182.3	11.0			
FM (30°-60°)	9550.1	48.3			
FH (60°-80°)	2130.9	10.8			G2/5000
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	1668.3	8.4	B3/2500		
BM (30°-60°)	3117.1	15.8	B3/5000		
BH (60°-80°)	1042.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	46.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P638061

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8
2.5°	4674.8	4665.1	4668.3	4681.2	4729.7	4765.3	4802.4	4836.3	4868.7	4878.4	4886.4
5°	4508.3	4490.5	4495.4	4516.4	4573.0	4632.7	4699.0	4779.8	4857.4	4883.2	4917.1
7.5°	4390.4	4387.1	4395.2	4427.5	4487.3	4543.9	4629.5	4744.2	4878.4	4922.0	4981.8
10°	4233.6	4227.2	4259.5	4325.7	4424.3	4514.8	4616.6	4752.3	4939.8	5004.4	5096.5
12.5°	4109.2	4106.0	4139.9	4232.0	4358.0	4501.9	4642.4	4794.3	5022.2	5111.1	5224.2
15°	4181.9	4167.4	4169.0	4233.6	4346.7	4516.4	4707.1	4870.3	5104.6	5217.7	5363.1
17.5°	4393.6	4367.7	4348.4	4359.7	4424.3	4600.4	4805.6	4972.1	5199.9	5332.4	5510.2
20°	4686.1	4671.5	4618.2	4582.7	4597.2	4752.3	4960.8	5115.9	5324.3	5473.0	5663.7
22.5°	5078.7	5043.2	4970.5	4913.9	4870.3	4991.5	5183.8	5317.9	5497.2	5652.4	5851.1
25°	5565.1	5513.4	5398.7	5309.8	5216.1	5340.5	5511.8	5613.6	5734.8	5878.6	6067.7
27.5°	6061.2	6017.6	5889.9	5770.3	5654.0	5731.6	5935.2	5993.3	5980.4	6085.4	6247.0
30°	6589.6	6534.6	6413.5	6284.2	6133.9	6184.0	6366.6	6395.7	6258.3	6345.6	6455.5
32.5°	7147.1	7093.7	6988.7	6838.4	6668.8	6688.2	6738.2	6765.7	6634.8	6684.9	6769.0
35°	7714.2	7664.2	7557.5	7408.8	7284.4	7166.5	7040.4	7150.3	7074.4	7171.3	7164.8
37.5°	8232.9	8182.9	8116.6	8001.9	7788.6	7555.9	7265.0	7400.8	7518.7	7641.5	7620.5
40°	8583.6	8549.7	8565.8	8548.0	8273.3	7812.8	7374.9	7523.6	7845.1	8055.2	8043.9
42.5°	8885.8	8851.8	8945.5	9013.4	8690.2	8050.3	7428.2	7570.4	8053.6	8381.6	8365.4
45°	9019.9	9010.2	9165.3	9380.2	9071.6	8302.4	7565.6	7667.4	8211.9	8632.1	8570.7
47.5°	8859.9	8893.8	9199.2	9562.8	9388.3	8601.4	7846.7	7872.6	8418.8	8903.5	8730.6
50°	8541.6	8615.9	9028.0	9567.7	9619.4	8939.1	8236.2	8171.5	8696.7	9192.8	8814.7
52.5°	8077.8	8155.4	8827.6	9530.5	9751.9	9330.1	8754.9	8662.8	9047.4	9482.0	8829.2
55°	7012.9	7118.0	8368.7	9446.5	9881.1	9685.6	9339.8	9152.4	9499.8	9879.5	8973.0
57.5°	6083.8	6138.8	7250.5	9073.2	9907.0	9947.4	9756.7	9533.7	9949.0	10309.4	9134.6
60°	4464.7	4477.6	5477.9	7507.4	9113.6	9795.5	9722.8	9391.5	9735.7	9965.2	8394.5
62.5°	2522.4	2524.0	3322.3	5010.9	6807.7	7984.1	8029.3	7736.9	7447.6	7515.5	5843.0
65°	946.9	1035.8	1517.3	2462.6	3925.0	4713.5	4901.0	4968.9	4487.3	4188.4	3133.2
67.5°	633.4	654.4	885.5	1266.9	1746.8	2016.6	2255.8	2262.2	1654.7	1475.3	1234.5
70°	483.2	504.2	696.4	906.5	885.5	817.6	883.9	859.7	888.7	913.0	938.8
72.5°	360.3	381.3	539.7	639.9	531.6	523.5	593.0	659.3	720.7	746.5	786.9
75°	239.2	255.3	363.6	342.6	294.1	347.4	433.1	499.3	534.9	565.6	596.3
77.5°	151.9	163.2	193.9	156.7	163.2	203.6	252.1	311.9	345.8	376.5	392.7
80°	69.5	67.9	66.3	74.3	92.1	119.6	151.9	187.4	213.3	226.2	235.9
82.5°	27.5	30.7	33.9	40.4	50.1	64.6	85.6	109.9	130.9	134.1	142.2
85°	11.3	12.9	14.5	17.8	22.6	29.1	35.5	50.1	63.0	67.9	72.7
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	4.8	8.1	14.5	16.2	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638061

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8	4897.8
2.5°	4930.1	4909.1	4944.6	4968.9	4991.5	4967.2	4959.2	4938.2	4934.9	4934.9	4946.2
5°	4975.3	4960.8	4997.9	5012.5	5010.9	4957.5	4925.2	4883.2	4862.2	4862.2	4865.4
7.5°	5056.1	5048.0	5069.0	5046.4	4994.7	4886.4	4779.8	4690.9	4631.1	4600.4	4610.1
10°	5190.2	5180.5	5162.8	5078.7	4930.1	4705.5	4487.3	4325.7	4228.8	4173.8	4177.1
12.5°	5321.1	5305.0	5241.9	5056.1	4750.7	4393.6	4107.6	3926.6	3820.0	3755.3	3740.8
15°	5464.9	5422.9	5287.2	4939.8	4458.2	4012.2	3713.3	3517.8	3403.1	3364.3	3362.7
17.5°	5602.3	5527.9	5282.3	4732.9	4107.6	3613.1	3312.6	3191.4	3172.0	3189.8	3194.6
20°	5741.2	5621.7	5229.0	4446.9	3690.7	3215.6	3060.5	3110.6	3183.3	3231.8	3243.1
22.5°	5885.1	5699.2	5107.8	4078.5	3251.2	2947.4	3012.0	3121.9	3212.4	3277.0	3283.5
25°	6046.6	5771.9	4926.8	3627.7	2898.9	2873.0	3000.7	3117.0	3214.0	3288.3	3301.3
27.5°	6138.8	5773.6	4673.1	3163.9	2737.3	2844.0	2973.2	3083.1	3180.1	3260.9	3275.4
30°	6229.2	5729.9	4270.8	2787.4	2690.5	2810.0	2926.4	3028.2	3120.3	3199.5	3217.2
32.5°	6356.9	5689.5	3807.0	2570.9	2663.0	2777.7	2873.0	2963.5	3034.6	3070.2	3079.9
35°	6515.3	5637.8	3314.2	2477.2	2645.2	2751.9	2835.9	2884.4	2792.3	2772.9	2793.9
37.5°	6736.6	5589.4	2823.0	2436.8	2633.9	2742.2	2816.5	2692.1	2579.0	2533.7	2549.9
40°	6975.8	5561.9	2490.1	2404.4	2638.7	2751.9	2735.7	2551.5	2388.3	2292.9	2289.7
42.5°	7179.4	5519.9	2276.8	2383.4	2651.7	2789.0	2625.8	2427.1	2184.7	2128.1	2129.7
45°	7316.7	5413.2	2163.7	2360.8	2663.0	2797.1	2574.1	2255.8	2082.9	2047.3	2045.7
47.5°	7373.3	5219.3	2091.0	2325.3	2661.4	2730.8	2469.1	2184.7	2011.8	2002.1	2008.5
50°	7336.1	4901.0	2016.6	2255.8	2622.6	2661.4	2347.9	2121.7	1963.3	2016.6	2055.4
52.5°	7198.8	4488.9	1927.8	2160.4	2553.1	2582.2	2286.5	2082.9	1927.8	1998.9	2029.6
55°	7163.2	4154.4	1814.6	2036.0	2449.7	2441.6	2221.8	2063.5	1903.5	1876.0	1880.9
57.5°	7116.4	3828.0	1627.2	1813.0	2187.9	2200.8	2160.4	2040.9	1840.5	1832.4	1840.5
60°	6182.4	2934.5	1451.1	1564.2	1796.9	1866.3	2091.0	1998.9	1738.7	1704.8	1703.1
62.5°	4038.1	1777.5	1291.1	1363.8	1464.0	1544.8	1906.7	1877.7	1627.2	1606.2	1620.7
65°	2171.8	1266.9	1174.7	1218.4	1273.3	1334.7	1580.3	1672.4	1470.5	1396.1	1397.7
67.5°	1110.1	1077.8	1087.5	1118.2	1160.2	1190.9	1274.9	1355.7	1253.9	1190.9	1189.3
70°	950.1	976.0	990.5	1008.3	1035.8	1030.9	1039.0	1053.6	1045.5	1014.8	1013.2
72.5°	809.6	850.0	853.2	856.4	866.1	843.5	828.9	804.7	806.3	811.2	812.8
75°	615.7	654.4	664.1	659.3	669.0	639.9	620.5	596.3	567.2	562.3	565.6
77.5°	400.7	431.4	446.0	442.8	447.6	425.0	415.3	389.4	355.5	342.6	342.6
80°	242.4	260.2	271.5	274.7	279.5	263.4	247.2	224.6	210.1	195.5	195.5
82.5°	147.0	158.4	166.4	166.4	171.3	153.5	140.6	124.4	118.0	105.0	105.0
85°	74.3	82.4	85.6	84.0	80.8	66.3	61.4	53.3	50.1	43.6	43.6
87.5°	17.8	22.6	22.6	16.2	16.2	8.1	4.8	1.6	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)