

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: P641267

Luminaire Tested: GWS-SA5F-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32155.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

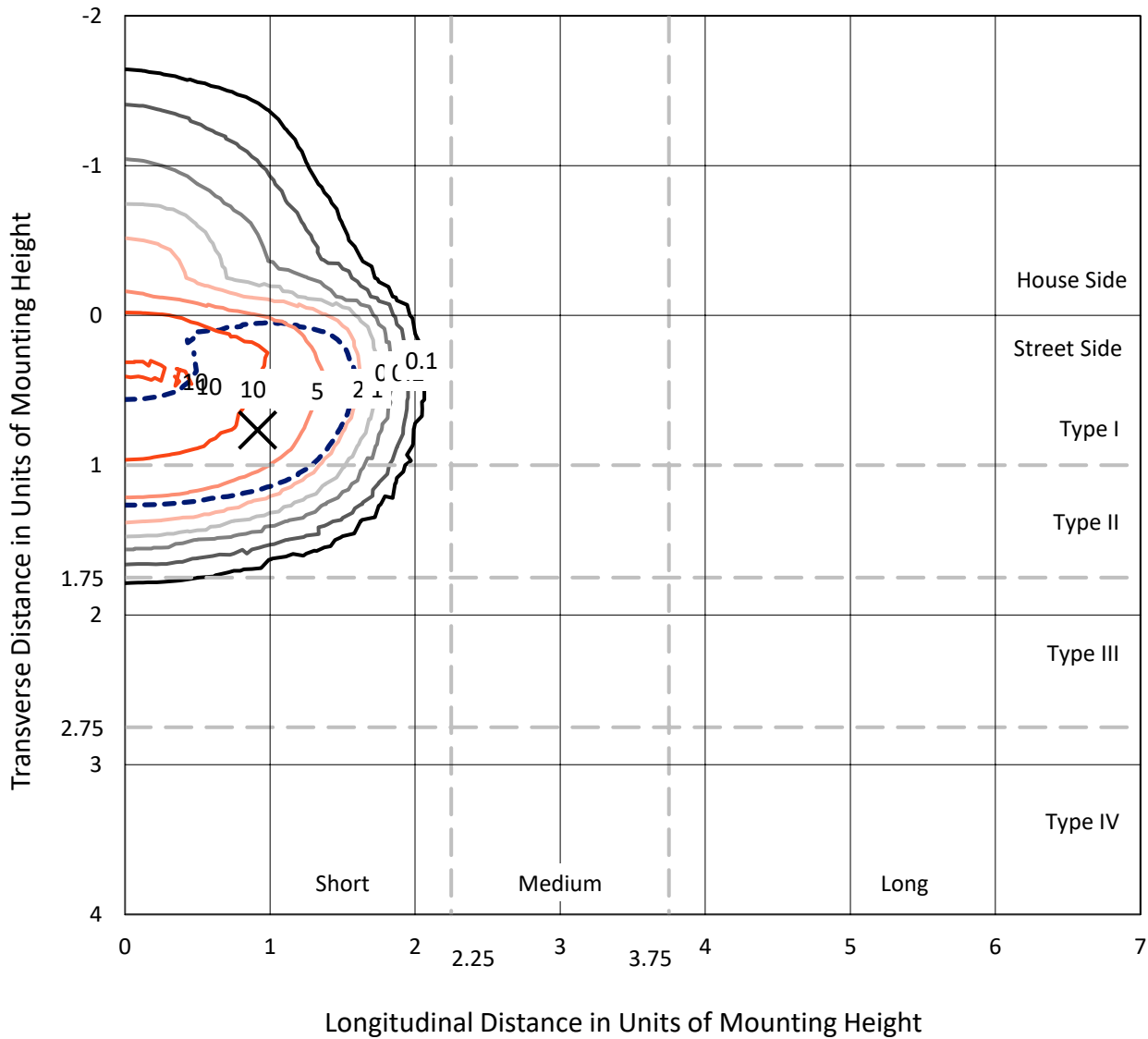
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

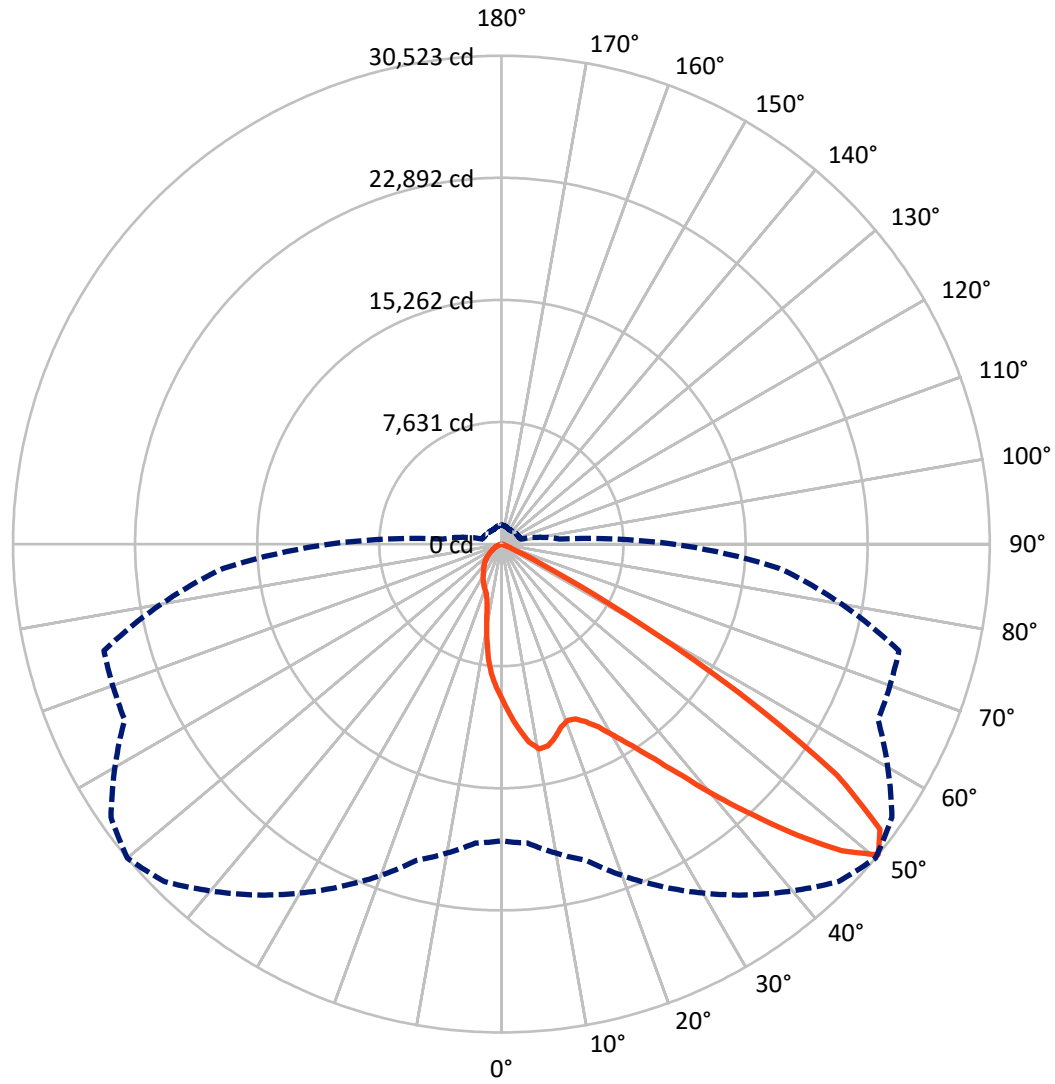
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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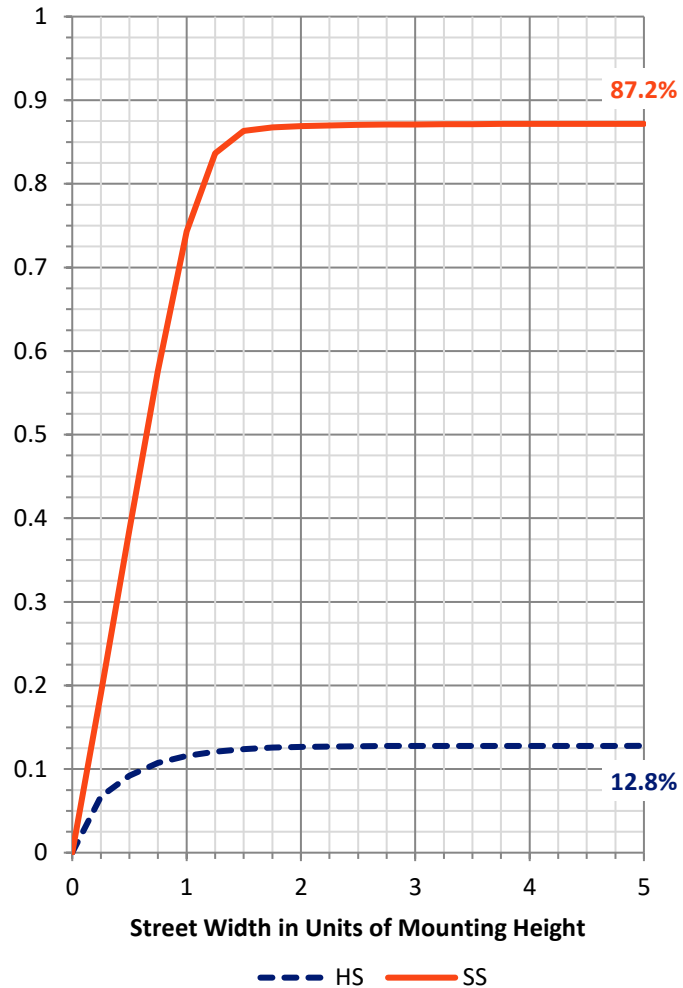
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4131.5	0.0	4131.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	28023.9	0.0	28023.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	32155.4	0.0	32155.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.7	2.8
10°-20°	2331.6	7.3
20°-30°	3848.0	12.0
30°-40°	6350.0	19.7
40°-50°	10047.2	31.2
50°-60°	7606.9	23.7
60°-70°	952.0	3.0
70°-80°	107.7	0.3
80°-90°	8.2	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°	32155.4	100.0
0°-180°	32155.4	100.0

Coefficient of Utilization



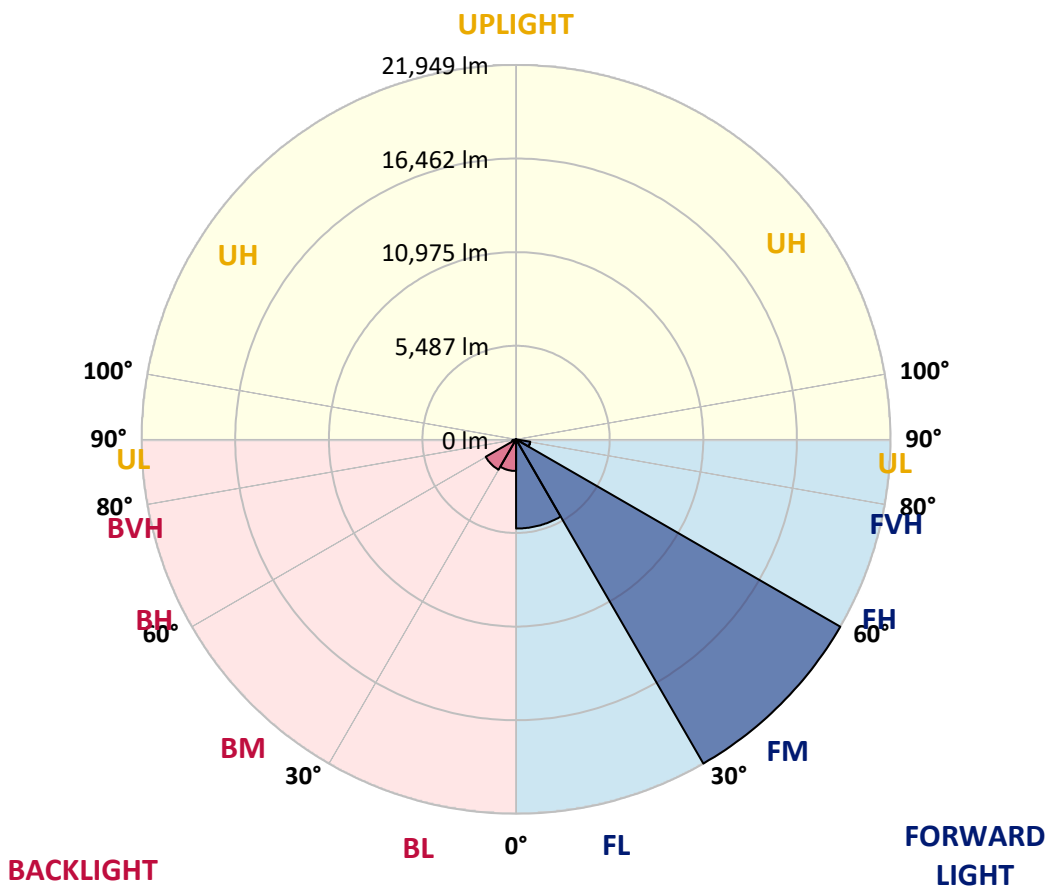
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5228.9	16.3			
FM (30°-60°)	21949.4	68.3			
FH (60°-80°)	841.7	2.6			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	1854.4	5.8	B3/2500		
BM (30°-60°)	2054.7	6.4	B2/2500		
BH (60°-80°)	218.0	0.7	B1/500		G1/500
BVH (80°-90°)	4.4	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°	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8
2.5°	11100.7	11189.5	11165.0	11048.7	10923.2	10834.4	10696.7	10653.9	10341.7	10124.4	9894.8
5°	12441.2	12468.8	12438.2	12297.4	12077.0	11865.8	11639.4	11507.8	10984.4	10513.1	10032.6
7.5°	12762.6	12728.9	12787.1	12857.5	12826.9	12735.0	12496.3	12352.5	11728.1	10959.9	10231.5
10°	11758.7	11682.2	11899.5	12263.7	12646.3	13077.8	13016.6	13028.9	12453.5	11523.1	10491.6
12.5°	10427.4	10396.8	10559.0	10981.3	11731.2	12710.6	12946.2	13341.0	13117.6	12132.1	10788.5
15°	9842.8	9858.1	9956.0	10222.3	10761.0	11979.1	12545.3	13258.4	13711.4	12722.8	11116.0
17.5°	9931.6	9986.7	9983.6	10072.3	10399.8	11376.2	12037.2	12998.3	14170.5	13402.3	11492.5
20°	10534.5	10589.6	10507.0	10439.6	10549.8	11223.1	11771.0	12735.0	14479.6	14087.8	11890.3
22.5°	11437.4	11501.6	11305.8	11112.9	11042.6	11474.1	11872.0	12627.9	14715.2	14715.2	12245.4
25°	12530.0	12618.7	12315.8	11973.0	11777.1	12003.6	12303.5	12869.7	14957.0	15278.4	12487.1
27.5°	13751.2	13754.2	13494.1	13108.4	12741.2	12768.7	12949.3	13414.5	15223.3	15884.4	12676.9
30°	15125.4	15134.5	14788.7	14326.5	13864.4	13738.9	13891.9	14243.9	15777.3	16646.5	12940.1
32.5°	16900.5	16943.3	16447.5	15768.1	15168.2	14932.5	15021.3	15391.6	16658.7	17601.4	13334.9
35°	19300.0	19345.9	18614.4	17717.7	16762.8	16407.7	16496.5	16869.9	17935.0	18957.2	13965.4
37.5°	21668.9	21730.1	20989.4	20153.9	18844.0	18256.3	18348.1	18703.2	19850.9	20830.3	14975.4
40°	23306.3	23388.9	23159.4	22596.2	21381.2	20609.9	20720.1	20848.6	21959.6	23070.6	16285.3
42.5°	24169.4	24285.7	24383.6	24671.3	24031.6	23385.8	23199.2	23208.3	24105.1	25353.8	17647.3
45°	24221.4	24334.6	24836.6	25947.5	26434.2	26299.5	25959.8	25730.2	25742.5	26874.9	18498.1
47.5°	22538.1	22749.2	23688.8	25864.9	27695.1	28812.2	28640.9	28096.1	26431.1	26975.9	18406.3
50°	18550.1	18758.3	20466.1	23597.0	26777.0	29816.1	30523.1	29791.6	25981.2	25718.0	17460.6
52.5°	13472.6	13494.1	14602.0	18259.4	23055.3	27964.5	29629.4	29559.0	25295.6	24193.8	16169.0
55°	6399.7	6323.1	7568.8	10305.0	15945.6	22617.6	25424.2	26219.9	24322.4	23092.0	15168.2
57.5°	1863.9	1900.6	2454.6	4021.6	7975.9	14455.1	17411.6	18892.9	19964.1	18984.7	11764.8
60°	835.5	838.6	933.5	1224.2	2656.6	6724.1	9001.1	10834.4	11936.2	11060.9	5836.5
62.5°	606.0	609.1	645.8	691.7	902.9	2277.1	3375.8	4499.0	4581.7	2999.4	1478.3
65°	505.0	505.0	511.1	511.1	541.7	814.1	1025.3	1322.2	1114.0	826.4	578.4
67.5°	407.1	410.1	416.2	416.2	407.1	407.1	440.7	483.6	517.2	639.7	532.5
70°	318.3	315.2	315.2	318.3	309.1	263.2	284.6	324.4	355.0	498.9	462.1
72.5°	247.9	251.0	247.9	235.7	214.2	156.1	168.3	211.2	226.5	312.2	312.2
75°	186.7	189.8	177.5	134.7	88.8	49.0	64.3	104.1	131.6	153.0	113.2
77.5°	24.5	24.5	18.4	18.4	15.3	18.4	18.4	24.5	36.7	36.7	27.5
80°	3.1	3.1	3.1	6.1	9.2	12.2	12.2	12.2	12.2	15.3	15.3
82.5°	3.1	3.1	3.1	3.1	9.2	9.2	12.2	12.2	12.2	12.2	12.2
85°	0.0	0.0	0.0	3.1	6.1	9.2	9.2	12.2	12.2	12.2	12.2
87.5°	0.0	0.0	0.0	3.1	6.1	9.2	9.2	9.2	12.2	12.2	12.2
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°	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8	9741.8
2.5°	9757.1	9579.6	9365.4	9218.4	9010.3	8872.6	8676.7	8545.1	8431.9	8343.1	8392.1
5°	9760.2	9478.6	9040.9	8667.5	8260.5	7887.1	7486.2	7170.9	6886.3	6757.7	6828.1
7.5°	9821.4	9417.4	8747.1	8083.0	7302.5	6531.3	5809.0	5221.3	4930.6	4792.9	4835.7
10°	9940.7	9389.8	8419.6	7317.8	6050.8	4997.9	4297.0	3899.2	3737.0	3651.3	3666.6
12.5°	10050.9	9371.5	7994.2	6310.9	4774.5	3877.7	3513.5	3458.4	3492.1	3495.2	3492.1
15°	10200.9	9337.8	7467.8	5276.4	3819.6	3351.3	3360.5	3440.1	3519.7	3544.1	3538.0
17.5°	10360.0	9285.8	6788.4	4284.8	3241.1	3198.3	3305.4	3412.5	3492.1	3504.4	3507.4
20°	10525.3	9178.7	6014.0	3498.2	2971.8	3082.0	3201.4	3280.9	3339.1	3357.4	3363.6
22.5°	10601.8	8952.2	5120.3	2935.1	2791.2	2938.2	3026.9	3131.0	3149.3	3082.0	3094.2
25°	10562.0	8569.6	4248.1	2555.6	2610.7	2757.6	2889.2	2837.2	2760.6	2711.7	2727.0
27.5°	10436.6	8061.6	3394.2	2277.1	2417.9	2604.5	2619.9	2561.7	2549.5	2509.7	2521.9
30°	10301.9	7477.0	2730.0	2053.6	2222.0	2417.9	2371.9	2393.4	2396.4	2350.5	2365.8
32.5°	10219.3	6864.9	2173.0	1903.7	2096.5	2133.2	2225.0	2267.9	2270.9	2163.8	2182.2
35°	10246.8	6261.9	1839.4	1781.3	1980.2	1971.0	2099.6	2124.0	1946.5	1799.6	1814.9
37.5°	10470.2	5704.9	1649.6	1686.4	1778.2	1848.6	1946.5	1784.3	1744.5	1677.2	1686.4
40°	10886.5	5230.5	1536.4	1628.2	1640.5	1753.7	1603.7	1625.2	1628.2	1585.4	1594.6
42.5°	11373.1	4835.7	1469.1	1594.6	1564.0	1582.3	1432.3	1475.2	1521.1	1502.7	1505.8
45°	11617.9	4450.1	1410.9	1478.3	1487.4	1313.0	1279.3	1325.2	1383.4	1392.6	1395.6
47.5°	11400.6	4082.8	1349.7	1309.9	1371.1	1196.7	1156.9	1172.2	1239.5	1276.3	1282.4
50°	10736.5	3660.4	1257.9	1160.0	1126.3	1074.3	1037.5	1040.6	1117.1	1181.4	1193.6
52.5°	9803.0	3219.7	1107.9	982.4	905.9	945.7	954.9	936.5	1006.9	1071.2	1083.4
55°	8897.1	2668.8	878.4	798.8	728.4	814.1	838.6	814.1	835.5	878.4	881.4
57.5°	6265.0	1508.9	673.3	661.1	602.9	697.8	737.6	700.9	664.1	691.7	697.8
60°	2904.5	789.6	517.2	517.2	501.9	599.9	667.2	615.2	544.8	557.0	566.2
62.5°	909.0	498.9	379.5	358.1	410.1	511.1	566.2	514.2	431.5	431.5	443.8
65°	514.2	428.5	299.9	275.5	333.6	410.1	443.8	388.7	315.2	309.1	309.1
67.5°	477.4	407.1	266.3	223.4	235.7	263.2	275.5	238.7	217.3	214.2	217.3
70°	394.8	339.7	214.2	153.0	143.8	140.8	146.9	137.7	131.6	134.7	143.8
72.5°	244.8	205.1	134.7	91.8	79.6	76.5	76.5	76.5	73.5	73.5	73.5
75°	88.8	76.5	61.2	45.9	39.8	36.7	36.7	39.8	36.7	33.7	30.6
77.5°	27.5	24.5	24.5	24.5	21.4	18.4	15.3	15.3	12.2	9.2	9.2
80°	15.3	15.3	15.3	15.3	12.2	12.2	9.2	6.1	3.1	3.1	0.0
82.5°	15.3	15.3	15.3	12.2	12.2	12.2	9.2	6.1	3.1	0.0	0.0
85°	12.2	12.2	12.2	12.2	12.2	12.2	9.2	6.1	3.1	0.0	0.0
87.5°	12.2	12.2	12.2	12.2	12.2	12.2	9.2	6.1	3.1	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)