

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: P640229

Luminaire Tested: GWS-SA5D-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640229
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-SA5D-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 17639.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

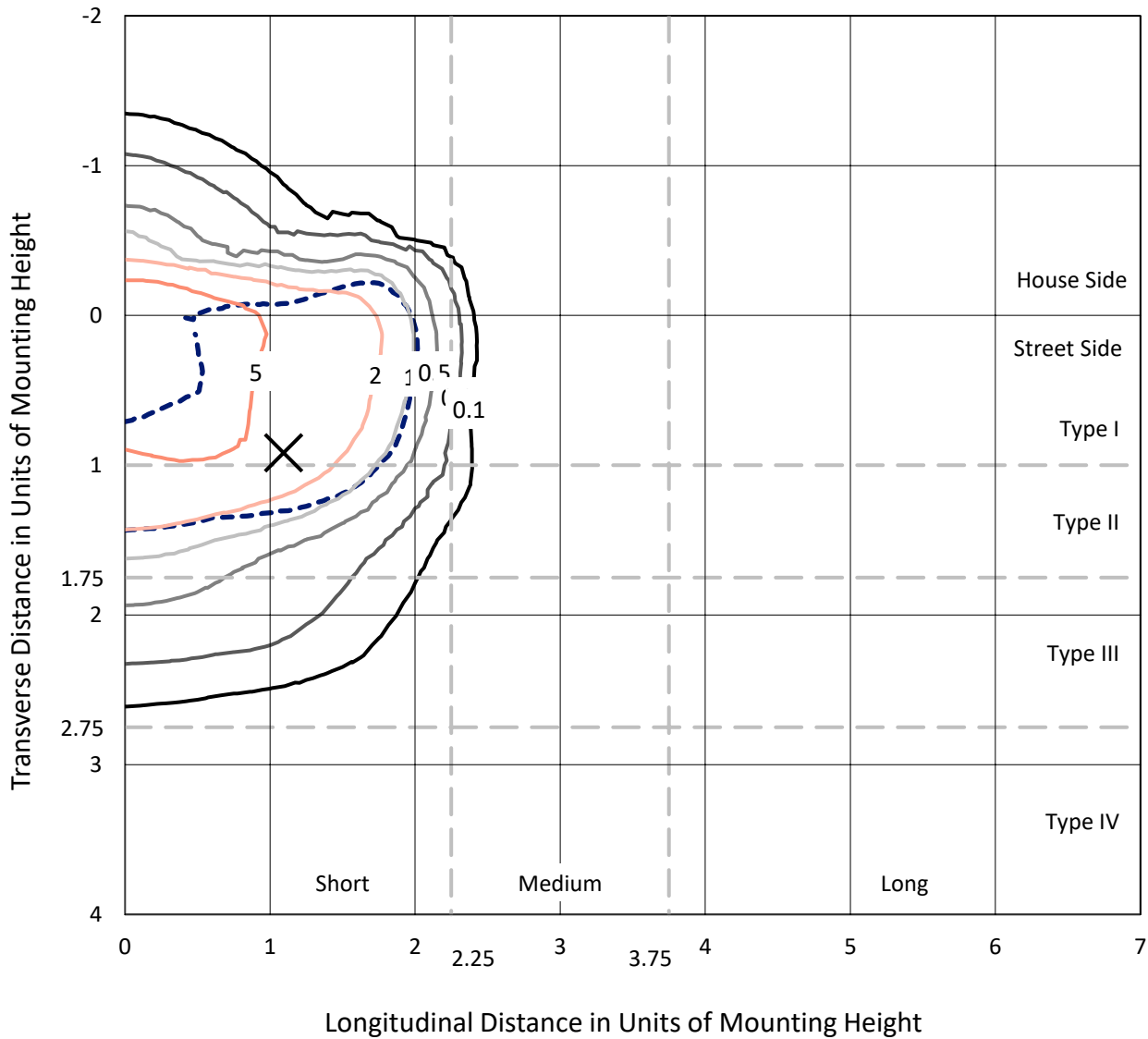
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

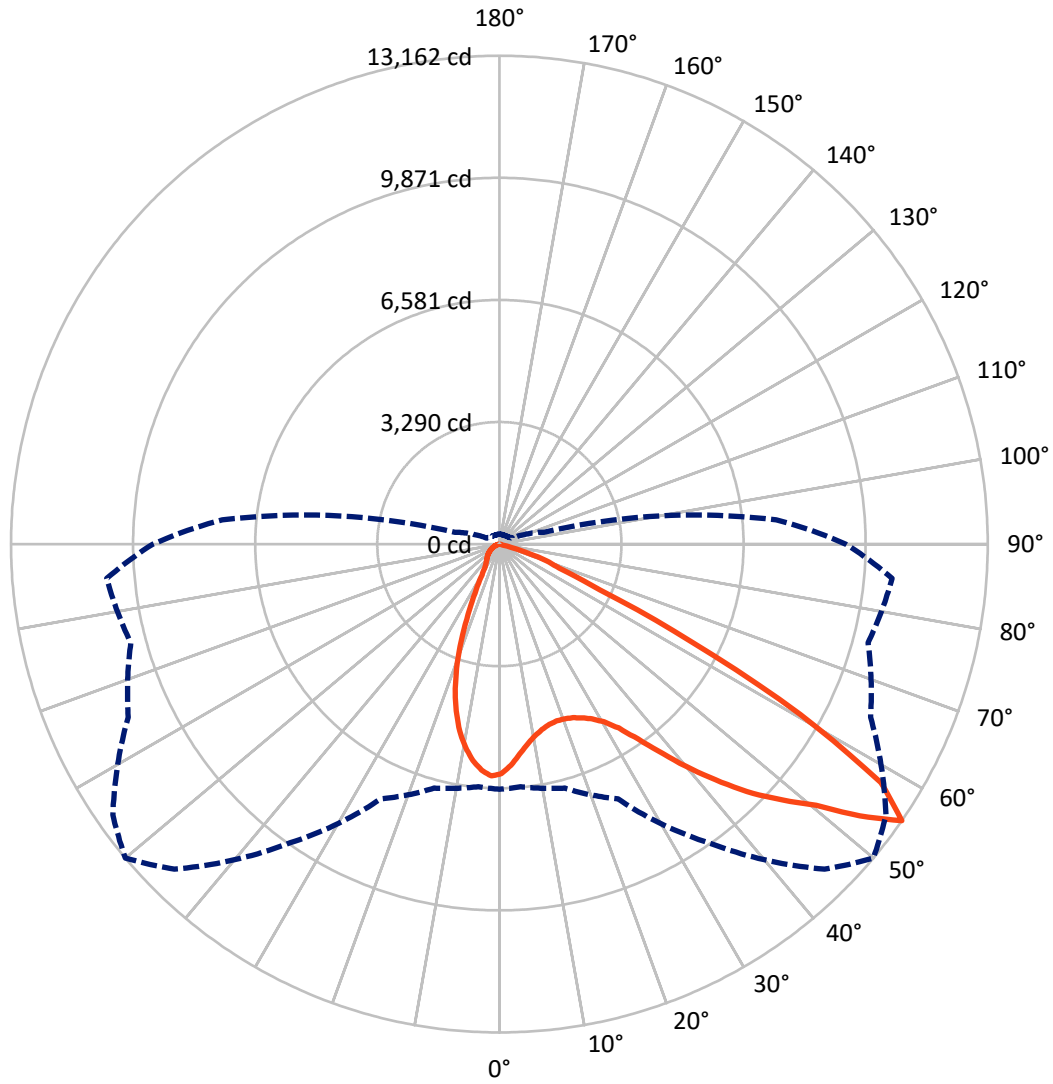
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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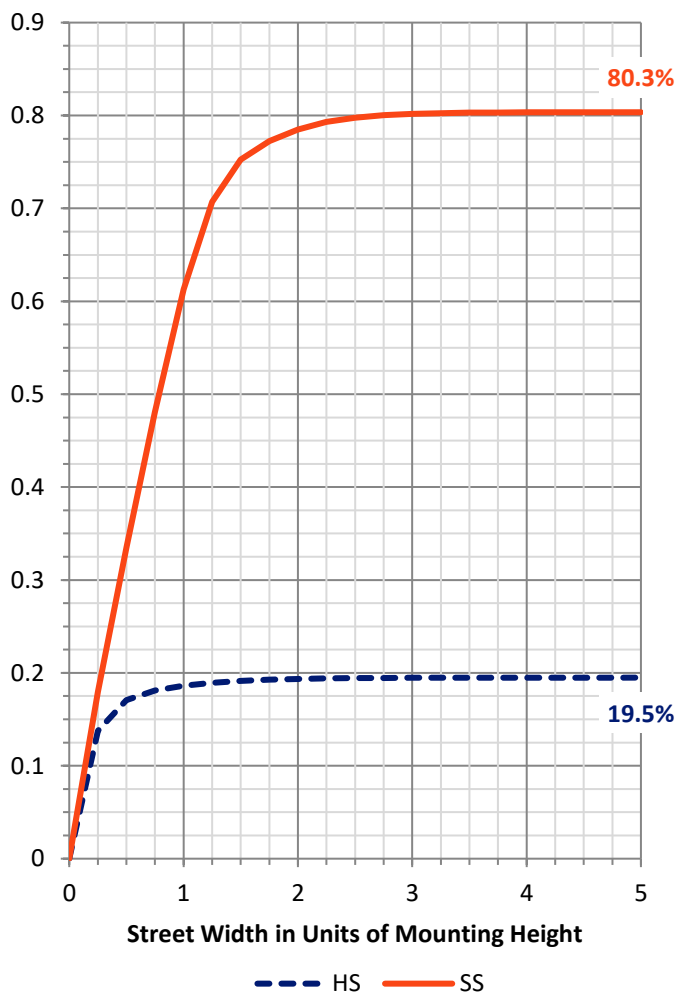
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3475.9	0.0	3475.9
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	14163.9	0.0	14163.9
	% Fixture	80.3	0.0	80.3
Total	Lumens	17639.7	0.0	17639.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.5	3.1
10°-20°	1337.5	7.6
20°-30°	1886.6	10.7
30°-40°	2791.8	15.8
40°-50°	4027.7	22.8
50°-60°	4751.0	26.9
60°-70°	2119.3	12.0
70°-80°	182.2	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°	17639.7	100.0
0°-180°	17639.7	100.0

Coefficient of Utilization



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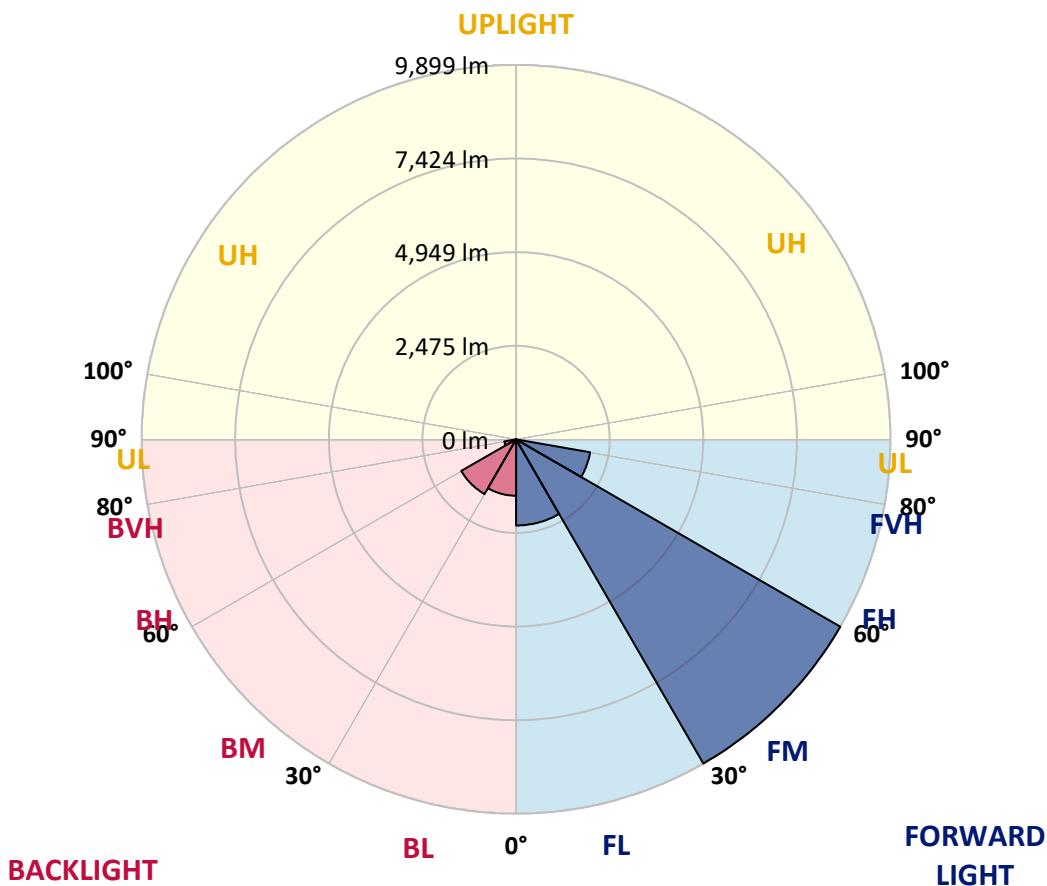
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.3	12.9			
FM (30°-60°)	9898.8	56.1			
FH (60°-80°)	1987.7	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1490.3	8.4	B3/2500		
BM (30°-60°)	1671.6	9.5	B2/2500		
BH (60°-80°)	313.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0
2.5°	5749.7	5754.0	5756.1	5814.3	5835.8	5922.0	5967.2	5990.9	6053.3	6126.5	6186.8
5°	5364.2	5357.8	5368.5	5441.7	5489.1	5616.2	5685.1	5732.5	5870.3	6042.6	6186.8
7.5°	5028.3	5041.2	5054.1	5133.8	5204.9	5342.7	5441.7	5512.8	5704.5	5960.7	6204.1
10°	4791.4	4791.4	4810.8	4901.2	4985.2	5155.3	5254.4	5344.8	5573.1	5887.5	6223.4
12.5°	4617.0	4619.1	4642.8	4746.2	4843.1	5019.7	5123.0	5211.3	5463.3	5814.3	6227.7
15°	4535.1	4528.7	4548.1	4657.9	4765.6	4931.4	5039.1	5125.2	5385.8	5773.4	6249.3
17.5°	4513.6	4509.3	4524.4	4632.1	4741.9	4903.4	5008.9	5095.0	5375.0	5786.3	6313.9
20°	4576.1	4567.4	4561.0	4653.6	4756.9	4916.3	5026.1	5123.0	5426.7	5857.4	6412.9
22.5°	4724.6	4724.6	4709.6	4754.8	4823.7	4968.0	5082.1	5209.2	5562.3	5999.5	6559.4
25°	4998.1	4976.6	4948.6	4968.0	4959.4	5049.8	5185.5	5362.1	5818.6	6234.2	6738.1
27.5°	5310.4	5329.8	5282.4	5284.5	5209.2	5176.9	5334.1	5601.1	6199.8	6565.8	7003.0
30°	5734.6	5719.5	5721.7	5715.2	5540.8	5387.9	5558.0	5913.3	6680.0	7071.9	7347.5
32.5°	6066.2	6087.8	6158.8	6199.8	5971.5	5726.0	5906.9	6337.6	7226.9	7649.0	7769.6
35°	6417.3	6456.0	6600.3	6733.8	6542.2	6260.1	6453.9	6899.6	7741.6	8219.7	8254.1
37.5°	6787.6	6865.2	7037.4	7272.2	7242.0	6992.2	7168.8	7560.7	8146.5	8564.2	8654.7
40°	7211.9	7287.2	7569.3	7907.4	7978.5	7922.5	7980.6	8208.9	8413.5	8579.3	8827.0
42.5°	7677.0	7780.4	8137.9	8590.1	8857.1	8906.6	8771.0	8747.3	8529.8	8407.0	8790.3
45°	8226.1	8346.7	8751.6	9337.3	9761.5	9828.3	9593.6	9289.9	8603.0	8280.0	8680.5
47.5°	8842.0	8956.2	9358.9	10063.0	10694.0	10719.8	10310.7	9821.8	8820.5	8426.4	8764.5
50°	9048.8	9119.8	9468.7	10295.6	11458.5	11656.6	11064.4	10420.5	9257.6	8857.1	9173.7
52.5°	8338.1	8366.1	8669.8	9505.3	11303.4	12576.1	12164.8	11314.2	10035.0	9513.9	9804.6
55°	6606.8	6561.5	6807.0	7573.6	9824.0	12388.7	13161.8	12718.2	11036.4	10284.8	10625.1
57.5°	4621.3	4567.4	4511.5	5030.4	7330.3	10502.3	12128.2	12914.2	11990.4	11049.3	11510.1
60°	3798.7	3747.0	3475.7	3236.6	4431.8	7541.3	9315.8	10795.2	11912.8	11010.5	11482.1
62.5°	3281.8	3251.7	3141.9	2816.7	2607.8	4304.7	5833.7	7250.6	9141.4	8646.1	8671.9
65°	2577.7	2569.1	2644.4	2678.9	2306.3	2381.7	2976.1	3768.5	4942.1	4660.0	4418.9
67.5°	1761.5	1742.1	1884.3	2317.1	2218.0	1880.0	1742.1	1757.2	2138.4	1307.1	1038.0
70°	1119.8	1074.6	1076.7	1436.3	1804.6	1483.7	1343.7	1182.2	1063.8	193.8	219.7
72.5°	717.1	689.1	592.2	648.2	835.5	723.6	730.0	628.8	419.9	103.4	120.6
75°	301.5	277.8	213.2	170.1	168.0	105.5	92.6	86.1	58.1	58.1	62.4
77.5°	2.2	0.0	0.0	2.2	4.3	2.2	2.2	4.3	8.6	12.9	15.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0	6189.0
2.5°	6223.4	6171.8	6229.9	6251.4	6249.3	6251.4	6189.0	6145.9	6143.8	6089.9	6064.1
5°	6247.1	6206.2	6249.3	6221.3	6154.5	6070.5	5958.6	5861.7	5818.6	5756.1	5726.0
7.5°	6292.4	6249.3	6242.8	6130.8	5965.0	5788.4	5590.3	5413.7	5319.0	5204.9	5211.3
10°	6324.7	6275.1	6191.1	5962.9	5687.2	5405.1	5110.1	4847.4	4681.6	4528.7	4502.8
12.5°	6337.6	6264.4	6068.4	5723.8	5336.2	4968.0	4535.1	4160.4	3902.0	3701.8	3673.8
15°	6361.3	6242.8	5911.2	5435.3	4903.4	4382.3	3831.0	3318.5	2976.1	2745.6	2765.0
17.5°	6397.9	6219.1	5734.6	5112.3	4438.2	3701.8	2956.7	2368.8	2054.4	1920.9	1923.0
20°	6449.6	6191.1	5540.8	4756.9	3880.5	2933.0	2067.3	1623.7	1535.4	1531.1	1524.6
22.5°	6518.5	6163.1	5334.1	4367.2	3219.4	2054.4	1376.0	1238.2	1274.8	1345.9	1358.8
25°	6600.3	6128.7	5103.7	3927.9	2498.0	1348.1	1031.5	1010.0	1098.3	1193.0	1214.5
27.5°	6727.3	6111.5	4840.9	3428.3	1752.9	966.9	844.1	857.1	936.7	1016.4	1035.8
30°	6942.7	6143.8	4554.5	2868.4	1126.2	770.9	732.2	751.6	794.6	835.5	852.8
32.5°	7235.6	6238.5	4276.7	2256.8	803.2	669.7	661.1	671.9	689.1	712.8	719.2
35°	7578.0	6402.2	3990.3	1615.1	663.3	611.6	603.0	603.0	611.6	615.9	618.0
37.5°	7860.1	6574.5	3721.1	1074.6	594.3	566.4	553.4	547.0	544.8	549.1	551.3
40°	7982.8	6645.5	3428.3	781.7	544.8	525.4	506.1	486.7	486.7	501.8	503.9
42.5°	7896.7	6565.8	3090.2	646.0	510.4	482.4	452.2	435.0	443.6	458.7	463.0
45°	7713.6	6369.9	2717.6	570.7	475.9	439.3	404.8	394.1	402.7	422.1	426.4
47.5°	7683.5	6240.7	2271.9	521.1	439.3	402.7	366.1	355.3	366.1	381.2	385.5
50°	7982.8	6352.6	1776.6	478.1	404.8	363.9	333.8	323.0	329.5	338.1	342.4
52.5°	8529.8	6768.3	1434.2	437.1	363.9	325.2	305.8	292.9	292.9	301.5	303.6
55°	9337.3	7494.0	1238.2	389.8	316.6	295.0	277.8	264.9	264.9	269.2	271.3
57.5°	10267.6	8372.6	1283.5	327.3	277.8	267.0	252.0	241.2	245.5	245.5	245.5
60°	10138.4	8308.0	1373.9	275.6	245.5	241.2	228.3	224.0	234.7	226.1	221.8
62.5°	7468.1	5738.9	719.2	226.1	211.0	206.7	198.1	206.7	221.8	198.1	189.5
65°	3626.4	2777.9	288.6	185.2	178.7	174.4	170.1	183.0	191.7	155.0	146.4
67.5°	852.8	693.4	187.3	157.2	148.6	140.0	144.3	146.4	140.0	105.5	101.2
70°	221.8	217.5	146.4	131.4	118.4	109.8	109.8	107.7	92.6	66.8	62.4
72.5°	120.6	118.4	105.5	99.1	81.8	73.2	75.4	66.8	51.7	38.8	36.6
75°	60.3	64.6	60.3	56.0	45.2	40.9	40.9	36.6	25.8	15.1	15.1
77.5°	12.9	15.1	15.1	12.9	10.8	8.6	8.6	10.8	4.3	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)