

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: P640119

Luminaire Tested: GWS-SA5D-730-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640119
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-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16063 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

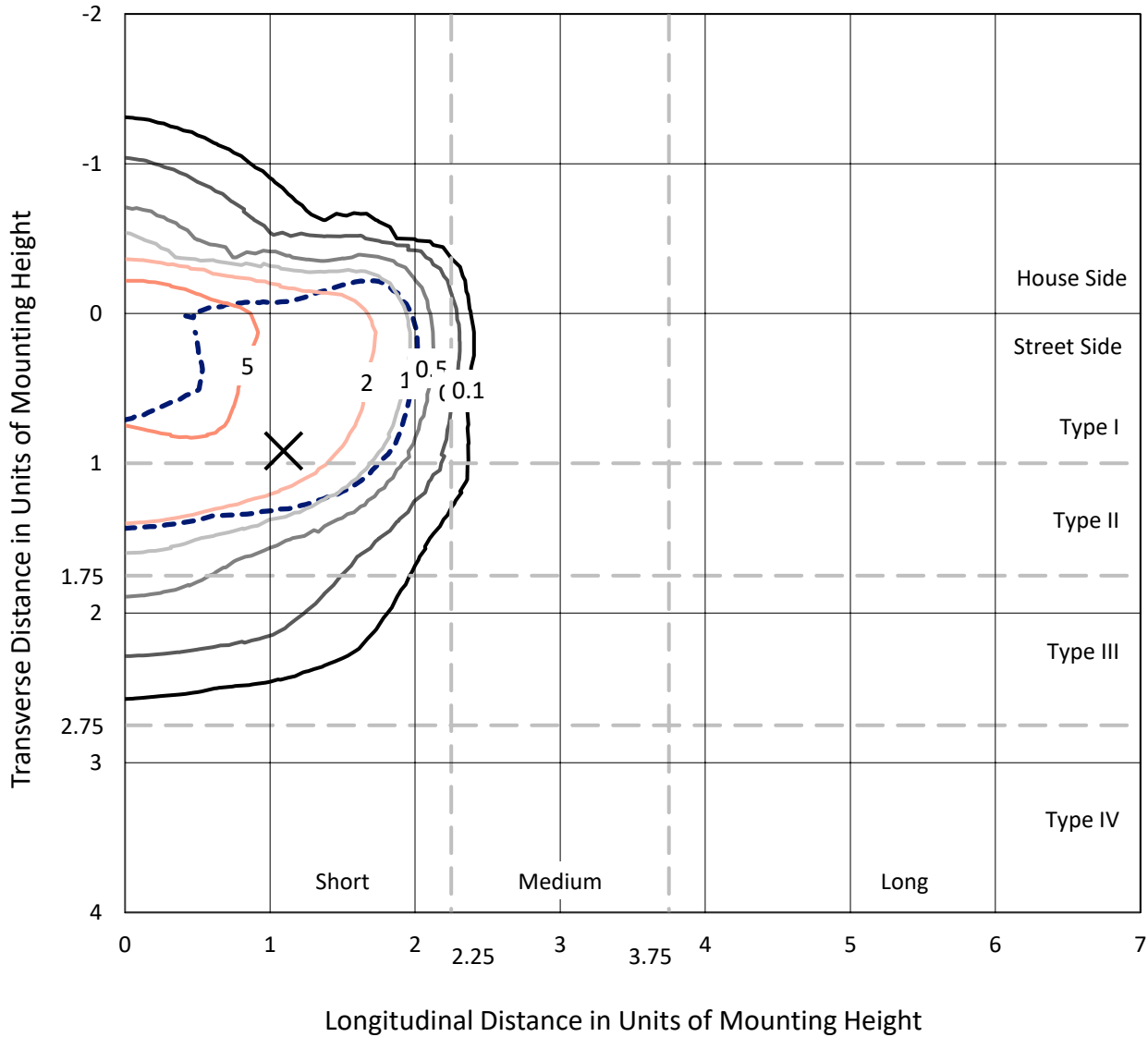
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640119
 CATALOG NUMBER: GWS-SA5D-730-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

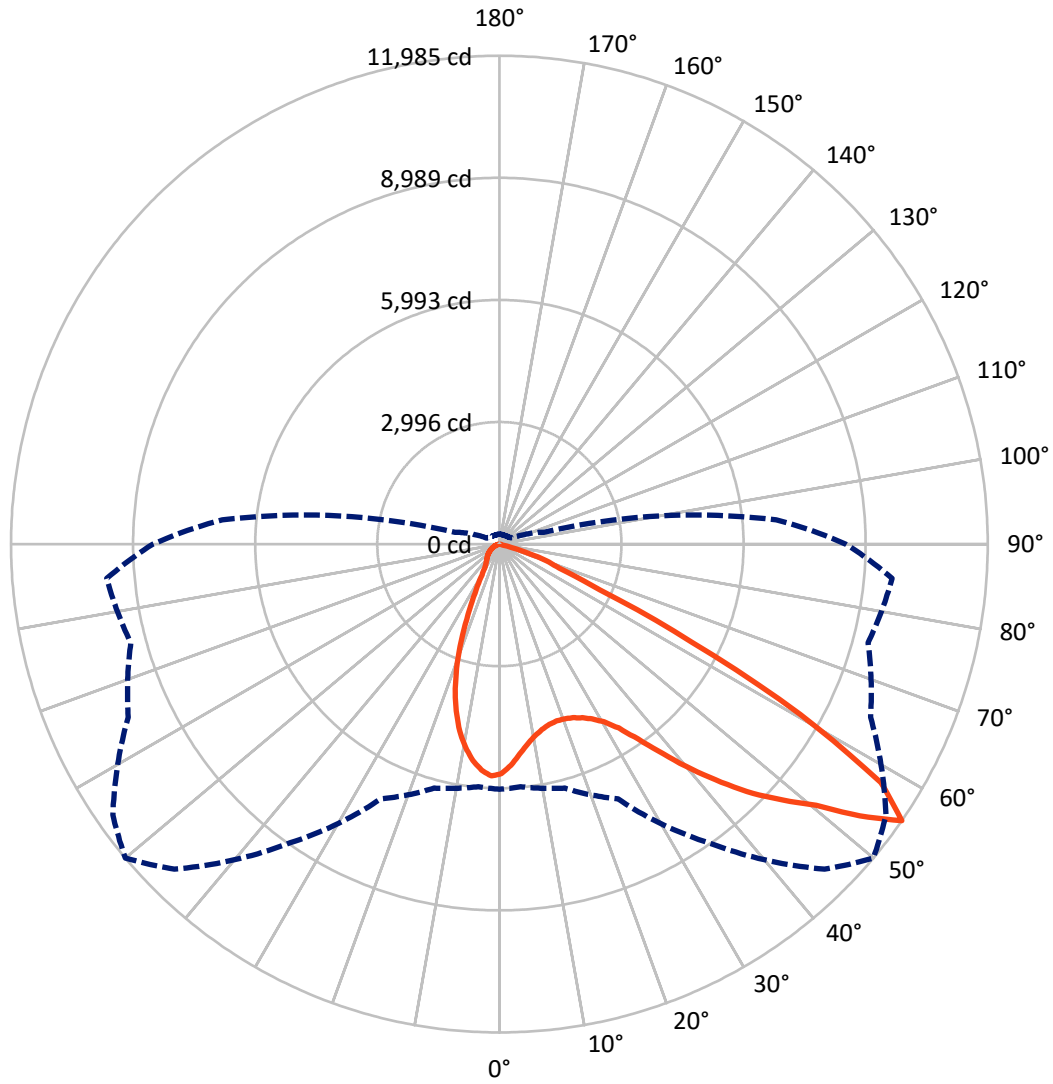
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P640119
CATALOG NUMBER: GWS-SA5D-730-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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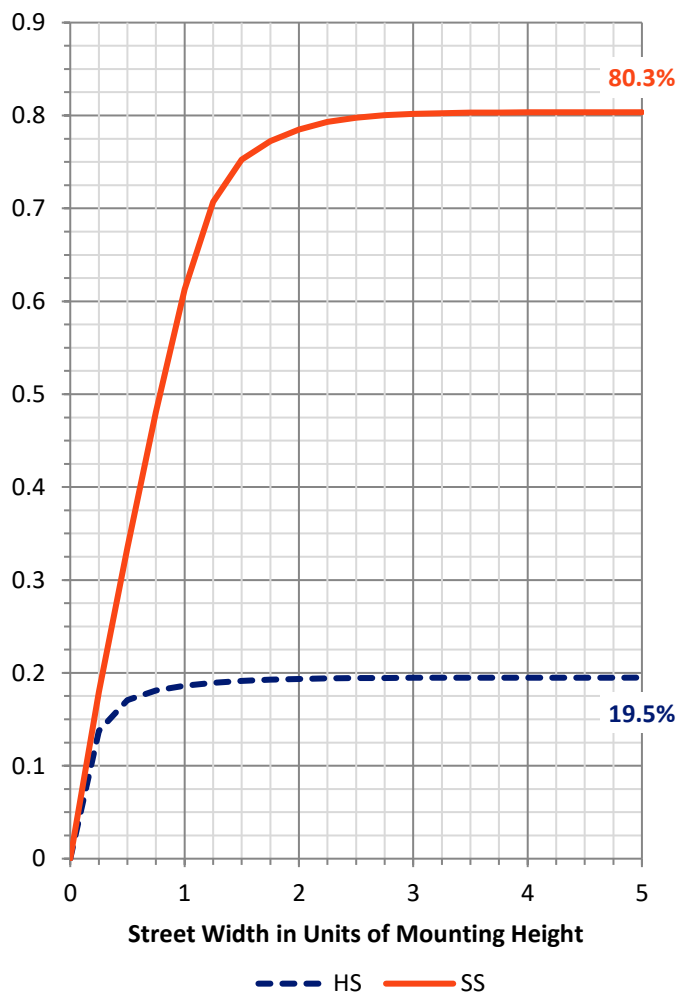
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.2	0.0	3165.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	12897.8	0.0	12897.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	3.1
10°-20°	1218.0	7.6
20°-30°	1718.0	10.7
30°-40°	2542.3	15.8
40°-50°	3667.7	22.8
50°-60°	4326.3	26.9
60°-70°	1929.9	12.0
70°-80°	165.9	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°	16063.0	100.0
0°-180°	16063.0	100.0

Coefficient of Utilization



REPORT NUMBER: P640119

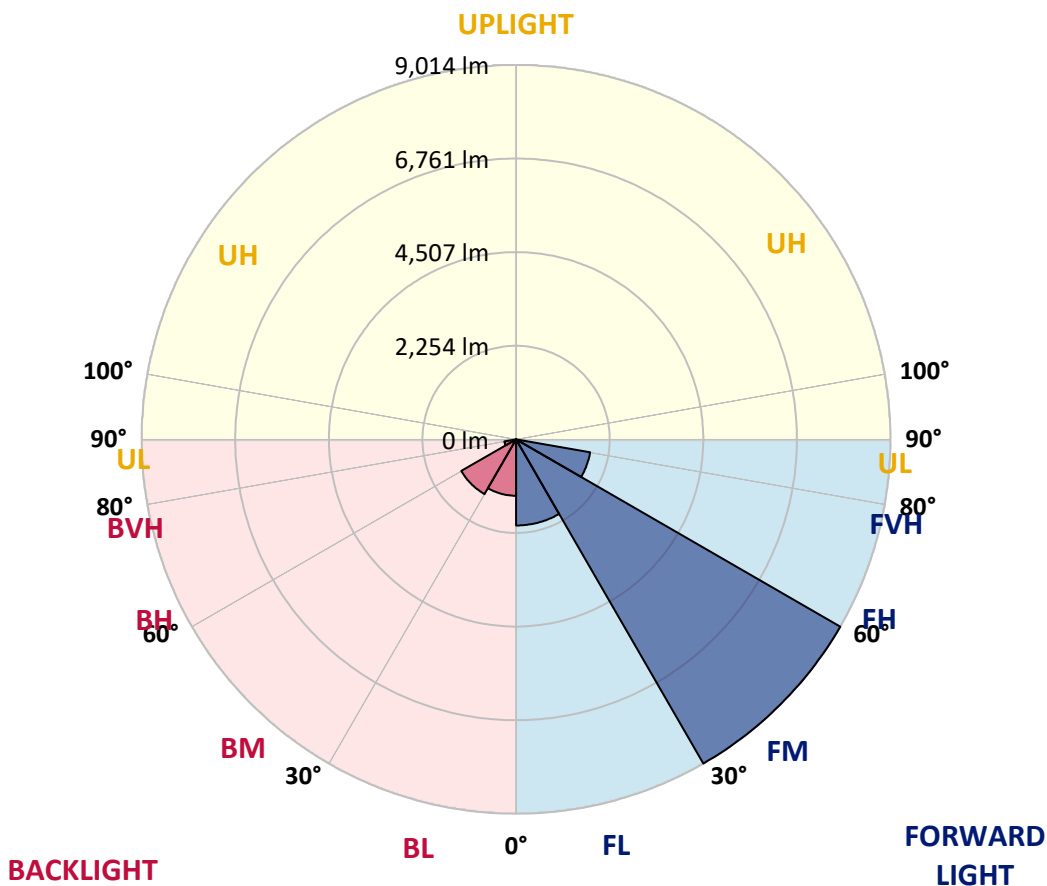
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.8	12.9			
FM (30°-60°)	9014.0	56.1			
FH (60°-80°)	1810.0	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1357.1	8.4	B3/2500		
BM (30°-60°)	1522.2	9.5	B2/2500		
BH (60°-80°)	285.8	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





REPORT NUMBER: P640119
 CATALOG NUMBER: GWS-SA5D-730-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8
2.5°	5235.8	5239.7	5241.6	5294.6	5314.2	5392.6	5433.8	5455.4	5512.3	5578.9	5633.8
5°	4884.7	4878.9	4888.7	4955.3	4998.5	5114.2	5176.9	5220.1	5345.6	5502.4	5633.8
7.5°	4578.8	4590.6	4602.4	4674.9	4739.6	4865.1	4955.3	5020.1	5194.6	5427.9	5649.5
10°	4363.1	4363.1	4380.8	4463.1	4539.6	4694.5	4784.7	4867.1	5075.0	5361.3	5667.2
12.5°	4204.3	4206.3	4227.8	4322.0	4410.2	4571.0	4665.1	4745.5	4975.0	5294.6	5671.1
15°	4129.8	4123.9	4141.5	4241.6	4339.6	4490.6	4588.6	4667.1	4904.4	5257.3	5690.7
17.5°	4110.2	4106.2	4120.0	4218.0	4318.0	4465.1	4561.2	4639.6	4894.6	5269.1	5749.5
20°	4167.0	4159.2	4153.3	4237.6	4331.8	4476.9	4576.9	4665.1	4941.6	5333.8	5839.7
22.5°	4302.3	4302.3	4288.6	4329.8	4392.5	4523.9	4627.9	4743.6	5065.2	5463.2	5973.1
25°	4551.4	4531.8	4506.3	4523.9	4516.1	4598.4	4722.0	4882.8	5298.5	5677.0	6135.8
27.5°	4835.7	4853.4	4810.2	4812.2	4743.6	4714.1	4857.3	5100.5	5645.6	5979.0	6377.0
30°	5222.0	5208.3	5210.3	5204.4	5045.5	4906.3	5061.2	5384.8	6082.9	6439.8	6690.8
32.5°	5524.0	5543.6	5608.3	5645.6	5437.7	5214.2	5378.9	5771.1	6581.0	6965.3	7075.1
35°	5843.7	5879.0	6010.3	6131.9	5957.4	5700.5	5877.0	6282.9	7049.6	7485.0	7516.4
37.5°	6180.9	6251.5	6408.4	6622.2	6594.7	6367.2	6528.0	6884.9	7418.3	7798.7	7881.1
40°	6567.2	6635.9	6892.8	7200.6	7265.3	7214.4	7267.3	7475.2	7661.5	7812.5	8038.0
42.5°	6990.8	7084.9	7410.5	7822.3	8065.4	8110.5	7987.0	7965.4	7767.4	7655.6	8004.6
45°	7490.9	7600.7	7969.3	8502.7	8889.0	8949.8	8736.1	8459.6	7834.0	7539.9	7904.6
47.5°	8051.7	8155.6	8522.3	9163.6	9738.1	9761.6	9389.1	8943.9	8032.1	7673.2	7981.1
50°	8239.9	8304.7	8622.3	9375.3	10434.3	10614.7	10075.4	9489.1	8430.2	8065.4	8353.7
52.5°	7592.8	7618.3	7894.8	8655.7	10293.1	11452.0	11077.5	10302.9	9138.1	8663.5	8928.2
55°	6016.2	5975.0	6198.6	6896.7	8945.9	11281.4	11985.4	11581.4	10049.9	9365.5	9675.4
57.5°	4208.2	4159.2	4108.2	4580.8	6675.1	9563.6	11044.1	11759.9	10918.6	10061.7	10481.3
60°	3459.1	3412.1	3165.0	2947.3	4035.7	6867.3	8483.1	9830.3	10848.0	10026.4	10455.8
62.5°	2988.5	2961.0	2861.0	2564.9	2374.7	3920.0	5312.2	6602.5	8324.3	7873.2	7896.8
65°	2347.3	2339.4	2408.1	2439.4	2100.2	2168.8	2710.0	3431.7	4500.4	4243.5	4023.9
67.5°	1604.1	1586.4	1715.8	2110.0	2019.8	1711.9	1586.4	1600.1	1947.2	1190.3	945.2
70°	1019.7	978.5	980.5	1308.0	1643.3	1351.1	1223.6	1076.6	968.7	176.5	200.0
72.5°	653.0	627.5	539.3	590.2	760.9	658.9	664.8	572.6	382.4	94.1	109.8
75°	274.5	253.0	194.1	154.9	153.0	96.1	84.3	78.4	52.9	52.9	56.9
77.5°	2.0	0.0	0.0	2.0	3.9	2.0	2.0	3.9	7.8	11.8	13.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8	5635.8
2.5°	5667.2	5620.1	5673.1	5692.7	5690.7	5692.7	5635.8	5596.6	5594.6	5545.6	5522.1
5°	5688.7	5651.5	5690.7	5665.2	5604.4	5527.9	5426.0	5337.7	5298.5	5241.6	5214.2
7.5°	5729.9	5690.7	5684.8	5582.8	5431.9	5271.1	5090.6	4929.8	4843.6	4739.6	4745.5
10°	5759.3	5714.2	5637.8	5429.9	5178.9	4922.0	4653.4	4414.1	4263.1	4123.9	4100.4
12.5°	5771.1	5704.4	5526.0	5212.2	4859.3	4523.9	4129.8	3788.6	3553.3	3370.9	3345.4
15°	5792.7	5684.8	5382.8	4949.5	4465.1	3990.5	3488.5	3021.8	2710.0	2500.2	2517.9
17.5°	5826.0	5663.2	5222.0	4655.3	4041.5	3370.9	2692.4	2157.1	1870.8	1749.2	1751.1
20°	5873.1	5637.8	5045.5	4331.8	3533.6	2670.8	1882.5	1478.6	1398.2	1394.2	1388.4
22.5°	5935.8	5612.3	4857.3	3976.8	2931.6	1870.8	1253.1	1127.6	1160.9	1225.6	1237.4
25°	6010.3	5580.9	4647.5	3576.8	2274.7	1227.6	939.3	919.7	1000.1	1086.4	1106.0
27.5°	6126.0	5565.2	4408.2	3121.8	1596.2	880.5	768.7	780.5	853.0	925.6	943.2
30°	6322.1	5594.6	4147.4	2612.0	1025.6	702.0	666.7	684.4	723.6	760.9	776.5
32.5°	6588.8	5680.9	3894.5	2055.1	731.4	609.9	602.0	611.8	627.5	649.1	655.0
35°	6900.6	5829.9	3633.7	1470.7	604.0	556.9	549.1	549.1	556.9	560.8	562.8
37.5°	7157.5	5986.8	3388.5	978.5	541.2	515.7	504.0	498.1	496.1	500.0	502.0
40°	7269.3	6051.5	3121.8	711.8	496.1	478.5	460.8	443.2	443.2	456.9	458.9
42.5°	7190.8	5979.0	2814.0	588.3	464.7	439.3	411.8	396.1	404.0	417.7	421.6
45°	7024.2	5800.5	2474.7	519.7	433.4	400.0	368.7	358.9	366.7	384.3	388.3
47.5°	6996.7	5682.9	2068.8	474.6	400.0	366.7	333.4	323.6	333.4	347.1	351.0
50°	7269.3	5784.8	1617.8	435.3	368.7	331.4	303.9	294.1	300.0	307.9	311.8
52.5°	7767.4	6163.3	1306.0	398.1	331.4	296.1	278.5	266.7	266.7	274.5	276.5
55°	8502.7	6824.1	1127.6	354.9	288.3	268.7	253.0	241.2	241.2	245.1	247.1
57.5°	9349.8	7624.2	1168.7	298.1	253.0	243.2	229.4	219.6	223.5	223.5	223.5
60°	9232.2	7565.4	1251.1	251.0	223.5	219.6	207.9	203.9	213.7	205.9	202.0
62.5°	6800.6	5226.0	655.0	205.9	192.2	188.3	180.4	188.3	202.0	180.4	172.6
65°	3302.3	2529.6	262.8	168.6	162.8	158.8	154.9	166.7	174.5	141.2	133.3
67.5°	776.5	631.4	170.6	143.1	135.3	127.5	131.4	133.3	127.5	96.1	92.2
70°	202.0	198.1	133.3	119.6	107.9	100.0	100.0	98.0	84.3	60.8	56.9
72.5°	109.8	107.9	96.1	90.2	74.5	66.7	68.6	60.8	47.1	35.3	33.3
75°	54.9	58.8	54.9	51.0	41.2	37.3	37.3	33.3	23.5	13.7	13.7
77.5°	11.8	13.7	13.7	11.8	9.8	7.8	7.8	9.8	3.9	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	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)