

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: P640112

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640112
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-SA5D-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20602.8 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

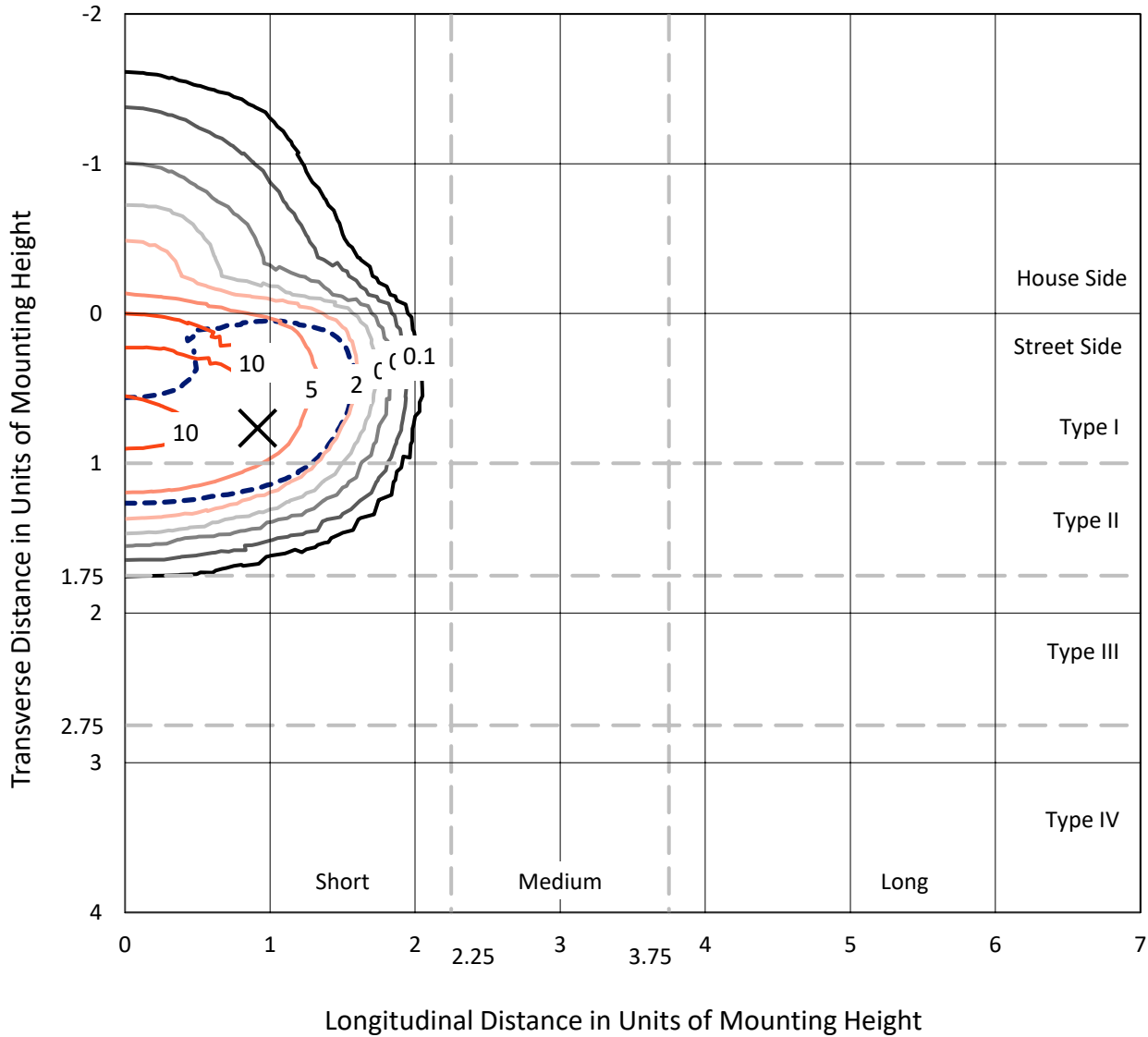
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

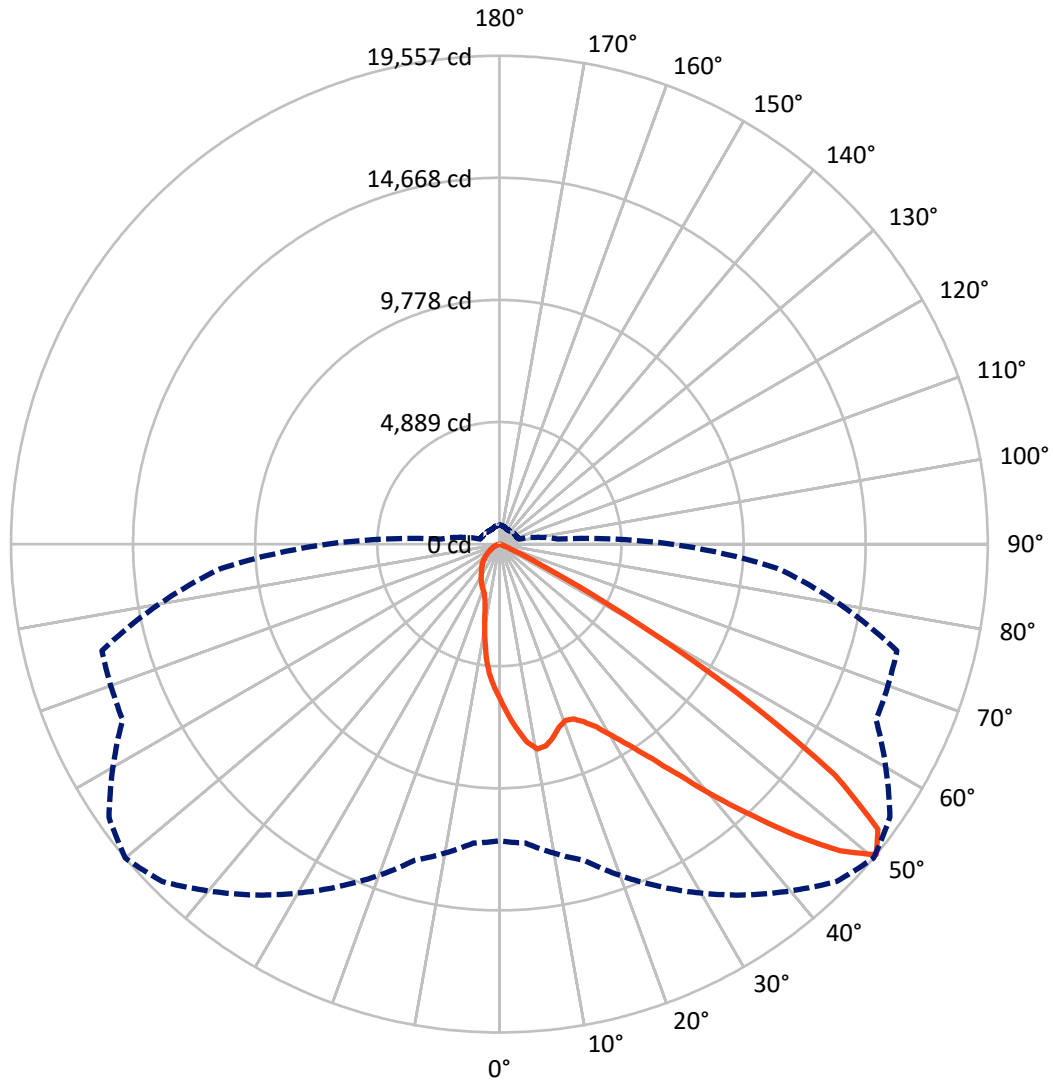
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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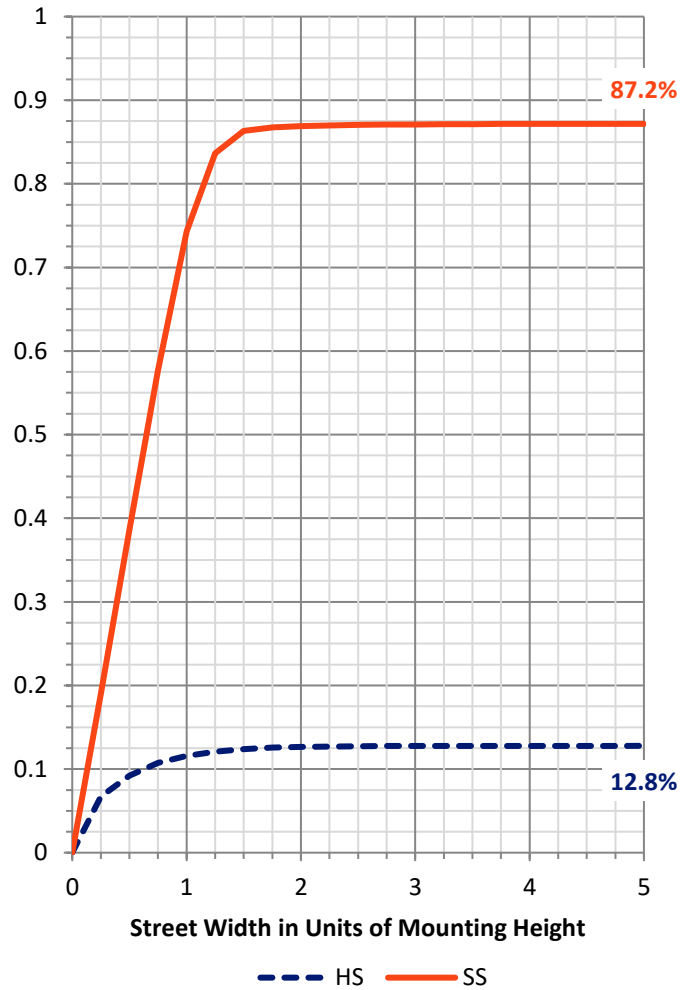
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2647.1	0.0	2647.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17955.7	0.0	17955.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	20602.8	0.0	20602.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.0	2.8
10°-20°	1493.9	7.3
20°-30°	2465.5	12.0
30°-40°	4068.6	19.7
40°-50°	6437.5	31.2
50°-60°	4873.9	23.7
60°-70°	610.0	3.0
70°-80°	69.0	0.3
80°-90°	5.3	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°	20602.8	100.0
0°-180°	20602.8	100.0

Coefficient of Utilization



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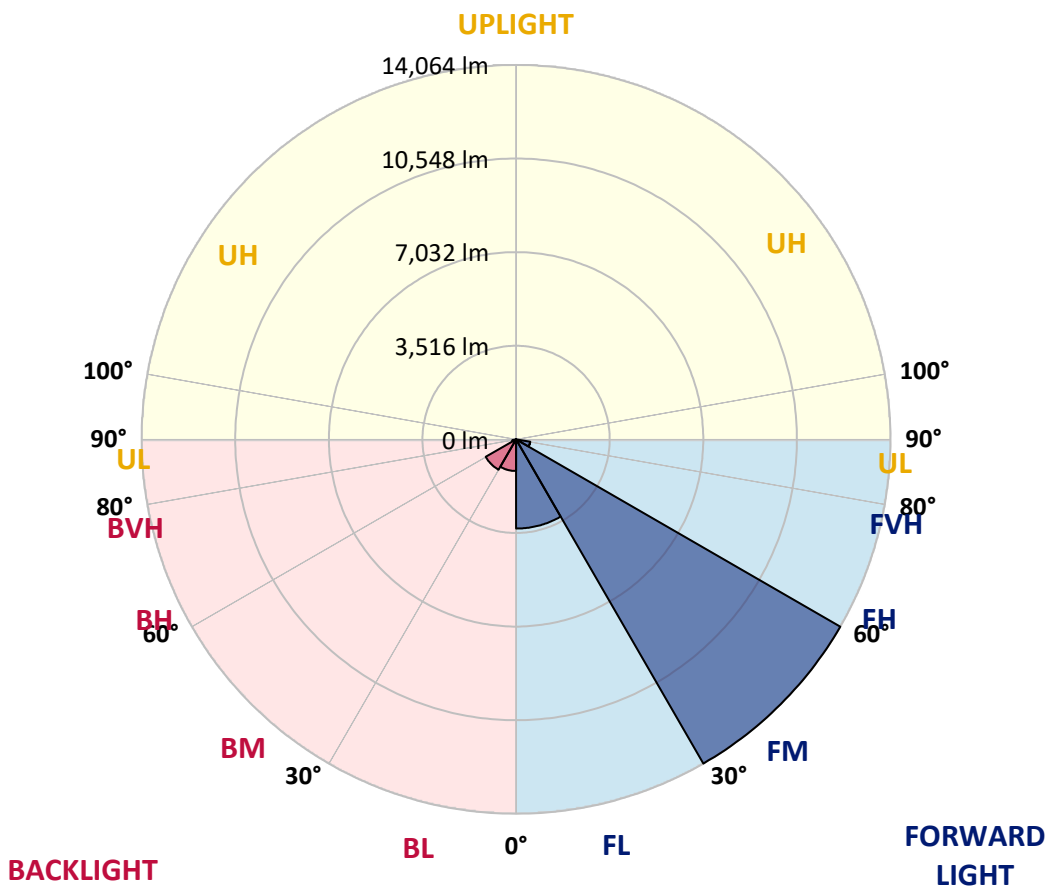
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3350.3	16.3			
FM (30°-60°)	14063.6	68.3			
FH (60°-80°)	539.3	2.6			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	1188.1	5.8	B3/2500		
BM (30°-60°)	1316.5	6.4	B2/2500		
BH (60°-80°)	139.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.8	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°	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8
2.5°	7112.5	7169.4	7153.7	7079.2	6998.8	6941.9	6853.7	6826.2	6626.2	6487.0	6339.9
5°	7971.4	7989.1	7969.5	7879.3	7738.1	7602.8	7457.6	7373.3	7038.0	6736.0	6428.1
7.5°	8177.3	8155.8	8193.0	8238.1	8218.5	8159.7	8006.7	7914.6	7514.5	7022.3	6555.6
10°	7534.1	7485.1	7624.3	7857.7	8102.8	8379.3	8340.1	8347.9	7979.3	7383.1	6722.3
12.5°	6681.1	6661.5	6765.4	7036.0	7516.5	8144.0	8295.0	8548.0	8404.8	7773.4	6912.5
15°	6306.5	6316.3	6379.1	6549.7	6894.8	7675.3	8038.1	8495.0	8785.2	8151.8	7122.3
17.5°	6363.4	6398.7	6396.7	6453.6	6663.4	7289.0	7712.6	8328.3	9079.4	8587.2	7363.5
20°	6749.7	6785.0	6732.1	6688.9	6759.5	7190.9	7542.0	8159.7	9277.4	9026.4	7618.4
22.5°	7328.2	7369.4	7243.9	7120.4	7075.2	7351.7	7606.7	8091.0	9428.4	9428.4	7845.9
25°	8028.3	8085.2	7891.0	7671.4	7545.9	7691.0	7883.2	8246.0	9583.4	9789.3	8000.8
27.5°	8810.7	8812.7	8646.0	8398.9	8163.6	8181.2	8296.9	8595.0	9754.0	10177.5	8122.4
30°	9691.2	9697.1	9475.5	9179.4	8883.3	8802.9	8900.9	9126.4	10108.9	10665.8	8291.1
32.5°	10828.6	10856.0	10538.4	10103.0	9718.7	9567.7	9624.5	9861.8	10673.7	11277.7	8544.0
35°	12366.0	12395.4	11926.7	11352.2	10740.3	10512.9	10569.7	10809.0	11491.4	12146.4	8948.0
37.5°	13883.8	13923.0	13448.5	12913.1	12073.8	11697.3	11756.1	11983.6	12719.0	13346.5	9595.1
40°	14932.9	14985.9	14838.8	14478.0	13699.5	13205.3	13275.9	13358.3	14070.1	14781.9	10434.4
42.5°	15485.9	15560.5	15623.2	15807.5	15397.7	14983.9	14864.3	14870.2	15444.8	16244.8	11307.1
45°	15519.3	15591.8	15913.4	16625.3	16937.1	16850.8	16633.1	16486.0	16493.9	17219.4	11852.2
47.5°	14440.7	14576.0	15178.1	16572.3	17745.0	18460.8	18350.9	18001.9	16935.1	17284.2	11793.4
50°	11885.6	12018.9	13113.1	15119.2	17156.7	19104.0	19556.9	19088.3	16646.8	16478.2	11187.4
52.5°	8632.3	8646.0	9355.9	11699.3	14772.1	17917.6	18984.3	18939.2	16207.6	15501.6	10359.9
55°	4100.4	4051.4	4849.5	6602.7	10216.8	14491.7	16289.9	16799.8	15584.0	14795.7	9718.7
57.5°	1194.2	1217.8	1572.7	2576.7	5110.3	9261.8	11156.1	12105.2	12791.5	12164.0	7538.0
60°	535.4	537.3	598.1	784.4	1702.1	4308.3	5767.3	6941.9	7647.9	7087.0	3739.6
62.5°	388.3	390.2	413.8	443.2	578.5	1459.0	2163.0	2882.7	2935.6	1921.8	947.2
65°	323.6	323.6	327.5	327.5	347.1	521.6	656.9	847.1	713.8	529.5	370.6
67.5°	260.8	262.8	266.7	266.7	260.8	260.8	282.4	309.8	331.4	409.8	341.2
70°	203.9	202.0	202.0	203.9	198.1	168.6	182.4	207.9	227.5	319.6	296.1
72.5°	158.8	160.8	158.8	151.0	137.3	100.0	107.9	135.3	145.1	200.0	200.0
75°	119.6	121.6	113.7	86.3	56.9	31.4	41.2	66.7	84.3	98.0	72.6
77.5°	15.7	15.7	11.8	11.8	9.8	11.8	11.8	15.7	23.5	23.5	17.6
80°	2.0	2.0	2.0	3.9	5.9	7.8	7.8	7.8	7.8	9.8	9.8
82.5°	2.0	2.0	2.0	2.0	5.9	5.9	7.8	7.8	7.8	7.8	7.8
85°	0.0	0.0	0.0	2.0	3.9	5.9	5.9	7.8	7.8	7.8	7.8
87.5°	0.0	0.0	0.0	2.0	3.9	5.9	5.9	5.9	7.8	7.8	7.8
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°	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8	6241.8
2.5°	6251.6	6137.9	6000.6	5906.5	5773.2	5684.9	5559.4	5475.1	5402.5	5345.7	5377.0
5°	6253.6	6073.2	5792.8	5553.5	5292.7	5053.5	4796.6	4594.6	4412.2	4329.9	4375.0
7.5°	6292.8	6034.0	5604.5	5179.0	4678.9	4184.8	3722.0	3345.4	3159.2	3070.9	3098.4
10°	6369.3	6016.3	5394.7	4688.7	3876.9	3202.3	2753.2	2498.3	2394.4	2339.5	2349.3
12.5°	6439.9	6004.5	5122.1	4043.6	3059.1	2484.6	2251.2	2215.9	2237.5	2239.4	2237.5
15°	6536.0	5983.0	4784.8	3380.7	2447.3	2147.3	2153.2	2204.2	2255.1	2270.8	2266.9
17.5°	6637.9	5949.6	4349.5	2745.4	2076.7	2049.2	2117.9	2186.5	2237.5	2245.3	2247.3
20°	6743.8	5881.0	3853.3	2241.4	1904.1	1974.7	2051.2	2102.2	2139.4	2151.2	2155.1
22.5°	6792.9	5735.9	3280.7	1880.6	1788.4	1882.5	1939.4	2006.1	2017.9	1974.7	1982.6
25°	6767.4	5490.8	2721.9	1637.4	1672.7	1766.9	1851.2	1817.8	1768.8	1737.4	1747.2
27.5°	6687.0	5165.2	2174.7	1459.0	1549.2	1668.8	1678.6	1641.3	1633.5	1608.0	1615.9
30°	6600.7	4790.7	1749.2	1315.8	1423.7	1549.2	1519.8	1533.5	1535.5	1506.0	1515.8
32.5°	6547.7	4398.5	1392.3	1219.7	1343.3	1366.8	1425.6	1453.1	1455.1	1386.4	1398.2
35°	6565.4	4012.2	1178.6	1141.3	1268.8	1262.9	1345.2	1360.9	1247.2	1153.1	1162.9
37.5°	6708.5	3655.3	1057.0	1080.5	1139.3	1184.4	1247.2	1143.3	1117.8	1074.6	1080.5
40°	6975.2	3351.3	984.4	1043.2	1051.1	1123.6	1027.6	1041.3	1043.2	1015.8	1021.7
42.5°	7287.0	3098.4	941.3	1021.7	1002.1	1013.8	917.7	945.2	974.6	962.8	964.8
45°	7443.9	2851.3	904.0	947.2	953.0	841.3	819.7	849.1	886.4	892.3	894.2
47.5°	7304.7	2616.0	864.8	839.3	878.5	766.7	741.3	751.1	794.2	817.7	821.7
50°	6879.2	2345.3	806.0	743.2	721.6	688.3	664.8	666.7	715.8	756.9	764.8
52.5°	6281.0	2063.0	709.9	629.5	580.5	605.9	611.8	600.1	645.2	686.3	694.2
55°	5700.6	1710.0	562.8	511.8	466.7	521.6	537.3	521.6	535.4	562.8	564.8
57.5°	4014.1	966.8	431.4	423.6	386.3	447.1	472.6	449.1	425.5	443.2	447.1
60°	1861.0	505.9	331.4	331.4	321.6	384.4	427.5	394.2	349.1	356.9	362.8
62.5°	582.4	319.6	243.2	229.4	262.8	327.5	362.8	329.4	276.5	276.5	284.3
65°	329.4	274.5	192.2	176.5	213.7	262.8	284.3	249.0	202.0	198.1	198.1
67.5°	305.9	260.8	170.6	143.2	151.0	168.6	176.5	153.0	139.2	137.3	139.2
70°	253.0	217.7	137.3	98.0	92.2	90.2	94.1	88.2	84.3	86.3	92.2
72.5°	156.9	131.4	86.3	58.8	51.0	49.0	49.0	49.0	47.1	47.1	47.1
75°	56.9	49.0	39.2	29.4	25.5	23.5	23.5	25.5	23.5	21.6	19.6
77.5°	17.6	15.7	15.7	15.7	13.7	11.8	9.8	9.8	7.8	5.9	5.9
80°	9.8	9.8	9.8	9.8	7.8	7.8	5.9	3.9	2.0	2.0	0.0
82.5°	9.8	9.8	9.8	7.8	7.8	7.8	5.9	3.9	2.0	0.0	0.0
85°	7.8	7.8	7.8	7.8	7.8	7.8	5.9	3.9	2.0	0.0	0.0
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	5.9	3.9	2.0	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)