

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: P641219

Luminaire Tested: GWS-SA5F-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641219
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-SA5F-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: 24508.3 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

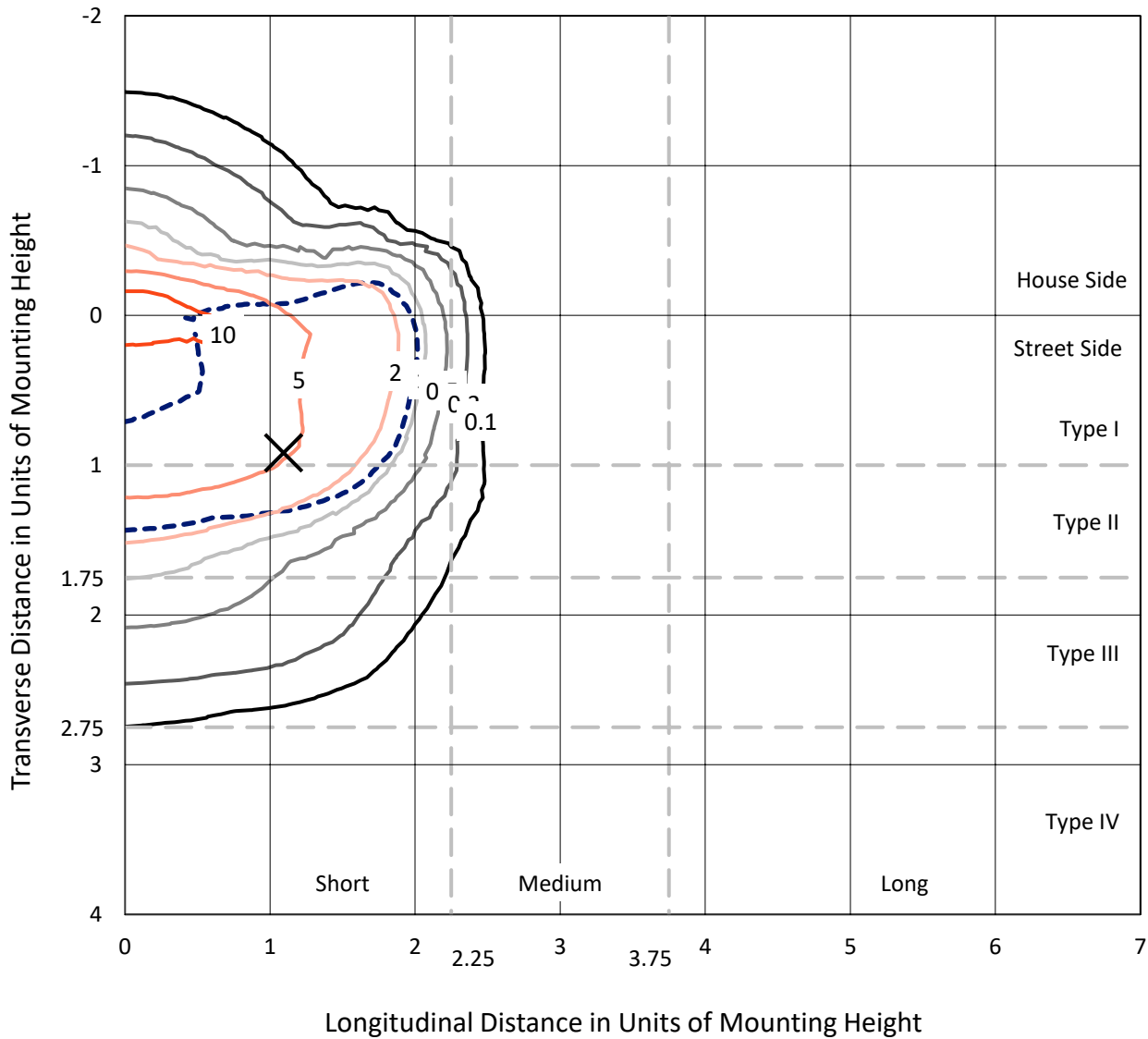
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

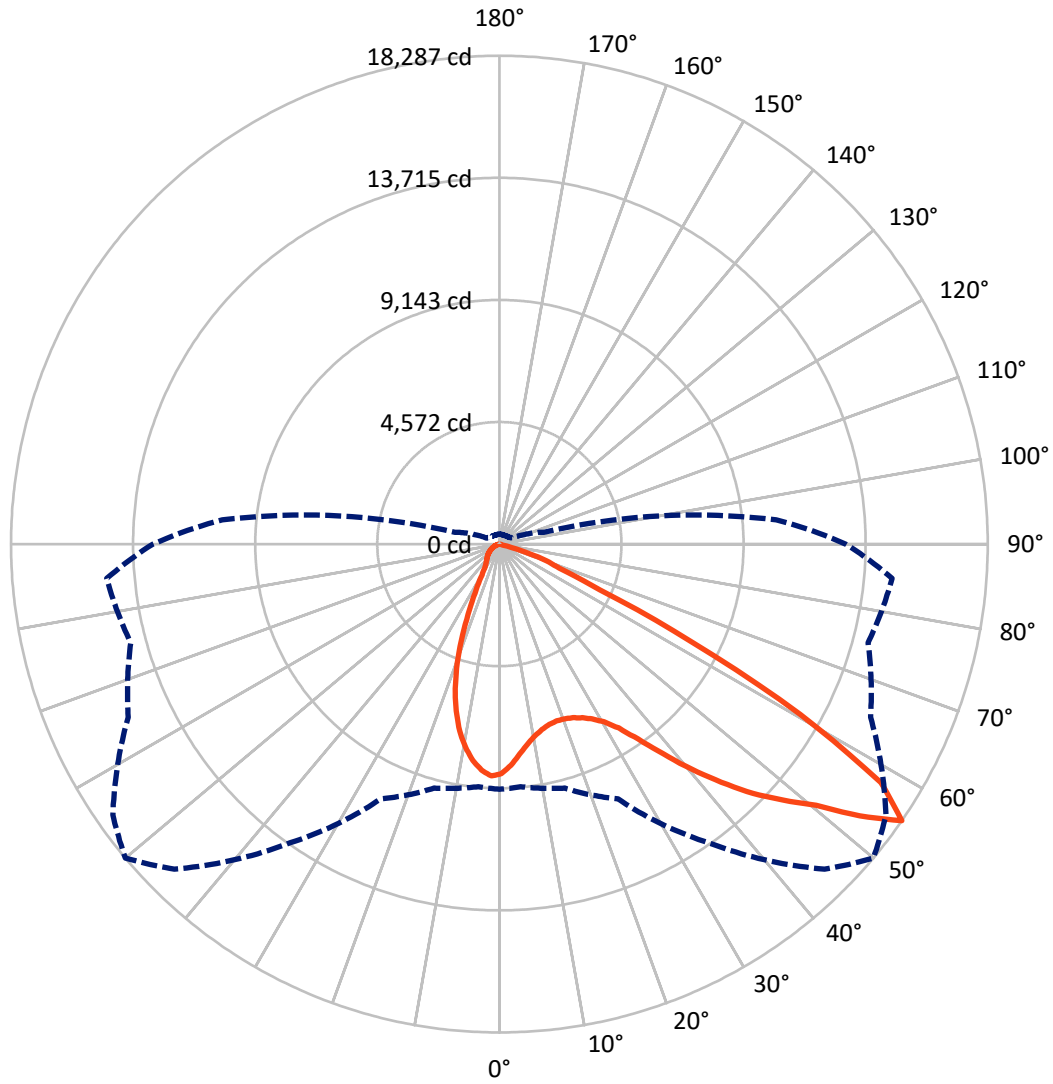
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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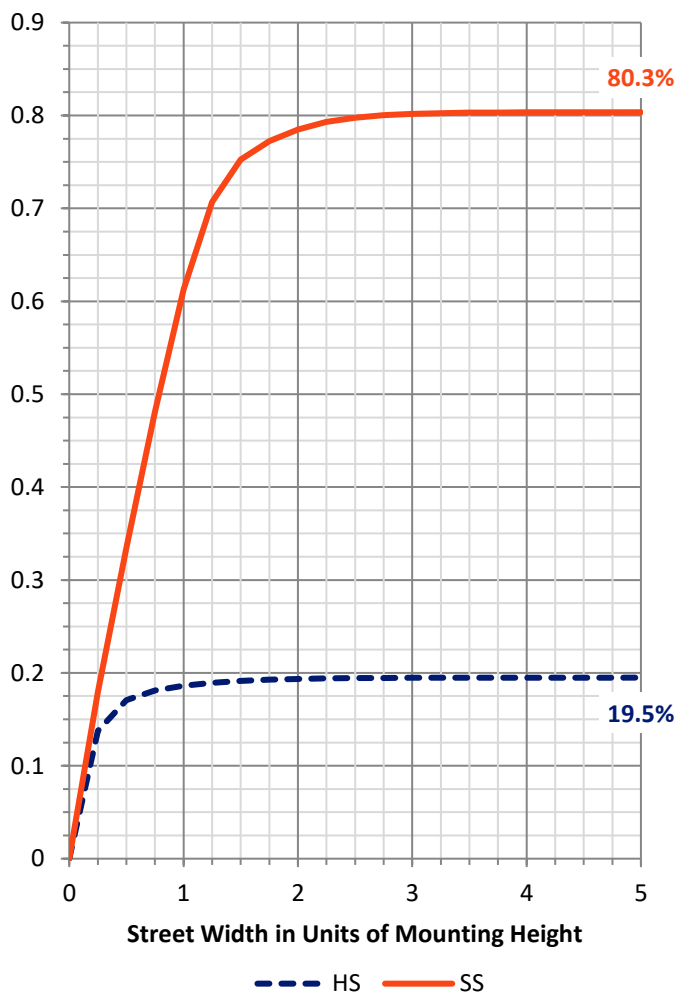
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4829.3	0.0	4829.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	19679.0	0.0	19679.0
	% Fixture	80.3	0.0	80.3
Total	Lumens	24508.3	0.0	24508.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.2	3.1
10°-20°	1858.3	7.6
20°-30°	2621.2	10.7
30°-40°	3878.9	15.8
40°-50°	5596.0	22.8
50°-60°	6600.9	26.9
60°-70°	2944.5	12.0
70°-80°	253.2	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°	24508.3	100.0
0°-180°	24508.3	100.0

Coefficient of Utilization



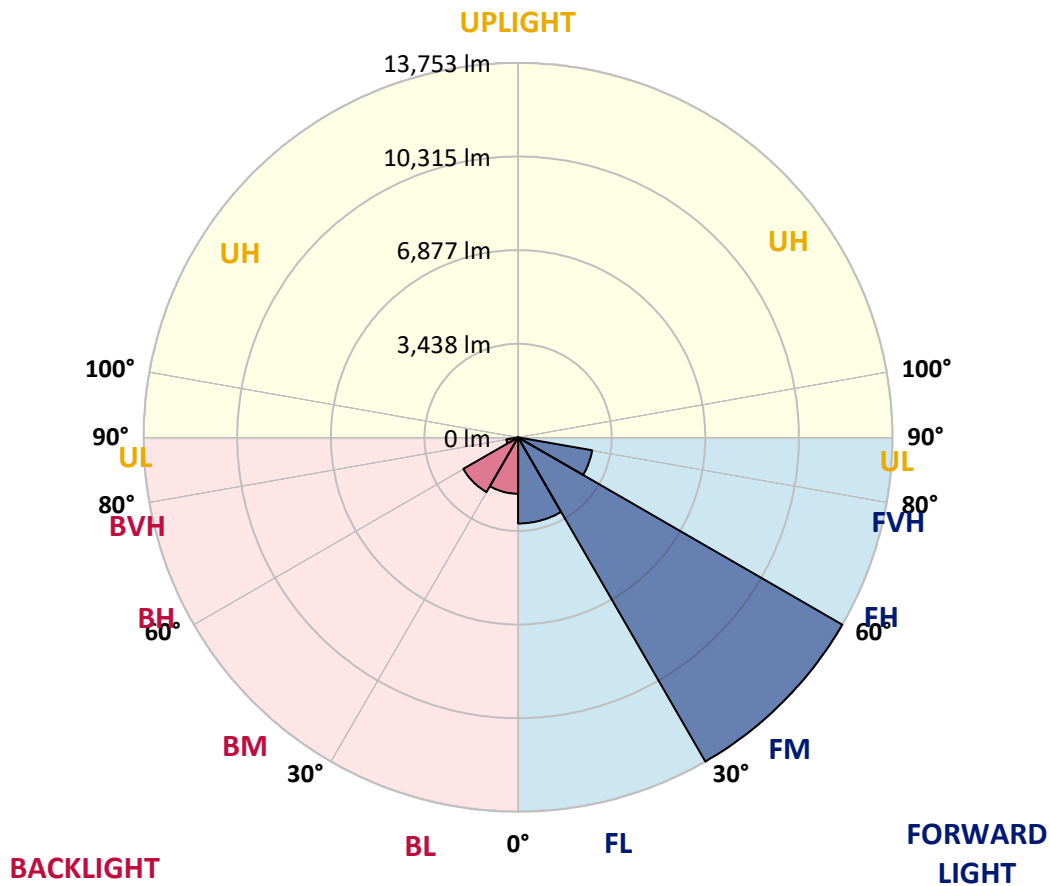
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3164.1	12.9			
FM (30°-60°)	13753.2	56.1			
FH (60°-80°)	2761.6	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2070.6	8.4	B3/2500		
BM (30°-60°)	2322.5	9.5	B2/2500		
BH (60°-80°)	436.0	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°	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9
2.5°	7988.5	7994.5	7997.5	8078.3	8108.2	8227.9	8290.7	8323.6	8410.4	8512.1	8595.9
5°	7453.0	7444.0	7458.9	7560.7	7626.5	7803.0	7898.8	7964.6	8156.1	8395.4	8595.9
7.5°	6986.2	7004.2	7022.1	7132.8	7231.6	7423.0	7560.7	7659.4	7925.7	8281.7	8619.8
10°	6657.1	6657.1	6684.0	6809.7	6926.4	7162.7	7300.4	7426.0	7743.2	8180.0	8646.7
12.5°	6414.7	6417.7	6450.7	6594.3	6728.9	6974.2	7117.9	7240.5	7590.6	8078.3	8652.7
15°	6301.1	6292.1	6319.0	6471.6	6621.2	6851.6	7001.2	7120.8	7482.9	8021.4	8682.6
17.5°	6271.1	6265.2	6286.1	6435.7	6588.3	6812.7	6959.3	7079.0	7467.9	8039.4	8772.4
20°	6357.9	6345.9	6337.0	6465.6	6609.2	6830.6	6983.2	7117.9	7539.7	8138.1	8910.0
22.5°	6564.3	6564.3	6543.4	6606.2	6702.0	6902.4	7061.0	7237.5	7728.2	8335.6	9113.5
25°	6944.3	6914.4	6875.5	6902.4	6890.5	7016.1	7204.6	7450.0	8084.3	8661.7	9361.8
27.5°	7378.2	7405.1	7339.3	7342.3	7237.5	7192.7	7411.1	7782.1	8613.8	9122.5	9729.8
30°	7967.6	7946.6	7949.6	7940.6	7698.3	7485.9	7722.2	8215.9	9281.0	9825.6	10208.5
32.5°	8428.3	8458.3	8557.0	8613.8	8296.7	7955.6	8206.9	8805.3	10041.0	10627.4	10795.0
35°	8916.0	8969.9	9170.3	9355.8	9089.6	8697.6	8966.9	9586.2	10756.1	11420.3	11468.2
37.5°	9430.6	9538.3	9777.7	10103.8	10061.9	9714.9	9960.2	10504.7	11318.6	11899.0	12024.7
40°	10020.1	10124.8	10516.7	10986.5	11085.2	11007.4	11088.2	11405.3	11689.6	11919.9	12264.0
42.5°	10666.3	10809.9	11306.6	11934.9	12305.9	12374.7	12186.2	12153.3	11851.1	11680.6	12213.2
45°	11429.3	11596.8	12159.3	12973.1	13562.5	13655.3	13329.2	12907.3	11952.9	11504.1	12060.6
47.5°	12285.0	12443.5	13003.0	13981.4	14858.0	14893.9	14325.5	13646.3	12255.0	11707.5	12177.3
50°	12572.2	12670.9	13155.6	14304.5	15920.2	16195.4	15372.7	14478.1	12862.4	12305.9	12745.7
52.5°	11584.8	11623.7	12045.6	13206.5	15704.8	17473.0	16901.5	15719.7	13942.5	13218.5	13622.4
55°	9179.3	9116.5	9457.6	10522.7	13649.3	17212.7	18286.8	17670.5	15333.8	14289.6	14762.3
57.5°	6420.7	6345.9	6268.1	6989.2	10184.6	14591.8	16850.7	17942.7	16659.2	15351.7	15992.0
60°	5277.8	5206.0	4829.0	4496.9	6157.4	10477.8	12943.2	14998.7	16551.5	15297.9	15953.1
62.5°	4559.7	4517.8	4365.3	3913.5	3623.3	5980.9	8105.2	10073.9	12700.8	12012.7	12048.6
65°	3581.4	3569.4	3674.1	3722.0	3204.4	3309.1	4134.9	5235.9	6866.5	6474.6	6139.5
67.5°	2447.4	2420.5	2618.0	3219.3	3081.7	2612.0	2420.5	2441.4	2971.0	1816.1	1442.1
70°	1555.8	1493.0	1496.0	1995.6	2507.3	2061.5	1867.0	1642.6	1478.0	269.3	305.2
72.5°	996.3	957.4	822.8	900.6	1160.9	1005.3	1014.3	873.7	583.4	143.6	167.5
75°	418.9	386.0	296.2	236.4	233.4	146.6	128.7	119.7	80.8	80.8	86.8
77.5°	3.0	0.0	0.0	3.0	6.0	3.0	3.0	6.0	12.0	18.0	20.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9	8598.9
2.5°	8646.7	8574.9	8655.7	8685.6	8682.6	8685.6	8598.9	8539.0	8536.0	8461.2	8425.3
5°	8679.7	8622.8	8682.6	8643.8	8551.0	8434.3	8278.7	8144.1	8084.3	7997.5	7955.6
7.5°	8742.5	8682.6	8673.7	8518.1	8287.7	8042.4	7767.1	7521.8	7390.1	7231.6	7240.5
10°	8787.4	8718.6	8601.9	8284.7	7901.7	7509.8	7099.9	6734.9	6504.5	6292.1	6256.2
12.5°	8805.3	8703.6	8431.3	7952.6	7414.1	6902.4	6301.1	5780.5	5421.4	5143.2	5104.3
15°	8838.2	8673.7	8212.9	7551.7	6812.7	6088.6	5322.7	4610.6	4134.9	3814.7	3841.7
17.5°	8889.1	8640.8	7967.6	7102.9	6166.4	5143.2	4108.0	3291.1	2854.3	2668.8	2671.8
20°	8960.9	8601.9	7698.3	6609.2	5391.5	4075.0	2872.3	2255.9	2133.3	2127.3	2118.3
22.5°	9056.6	8563.0	7411.1	6067.7	4473.0	2854.3	1911.9	1720.4	1771.2	1870.0	1887.9
25°	9170.3	8515.1	7090.9	5457.3	3470.7	1873.0	1433.1	1403.2	1525.9	1657.5	1687.5
27.5°	9346.9	8491.2	6725.9	4763.2	2435.5	1343.4	1172.8	1190.8	1301.5	1412.2	1439.1
30°	9646.1	8536.0	6328.0	3985.3	1564.8	1071.1	1017.3	1044.2	1104.0	1160.9	1184.8
32.5°	10053.0	8667.7	5942.0	3135.6	1116.0	930.5	918.5	933.5	957.4	990.3	999.3
35°	10528.7	8895.1	5544.1	2244.0	921.5	849.7	837.7	837.7	849.7	855.7	858.7
37.5°	10920.6	9134.4	5170.1	1493.0	825.8	786.9	768.9	760.0	757.0	762.9	765.9
40°	11091.2	9233.2	4763.2	1086.1	757.0	730.0	703.1	676.2	676.2	697.1	700.1
42.5°	10971.5	9122.5	4293.5	897.6	709.1	670.2	628.3	604.4	616.3	637.3	643.3
45°	10717.2	8850.2	3775.8	792.9	661.2	610.4	562.5	547.5	559.5	586.4	592.4
47.5°	10675.3	8670.7	3156.5	724.1	610.4	559.5	508.6	493.7	508.6	529.6	535.6
50°	11091.2	8826.3	2468.4	664.2	562.5	505.6	463.8	448.8	457.8	469.7	475.7
52.5°	11851.1	9403.7	1992.6	607.4	505.6	451.8	424.9	406.9	406.9	418.9	421.9
55°	12973.1	10412.0	1720.4	541.5	439.8	409.9	386.0	368.0	368.0	374.0	377.0
57.5°	14265.6	11632.7	1783.2	454.8	386.0	371.0	350.1	335.1	341.1	341.1	341.1
60°	14086.1	11543.0	1908.9	383.0	341.1	335.1	317.1	311.2	326.1	314.2	308.2
62.5°	10376.1	7973.6	999.3	314.2	293.2	287.2	275.3	287.2	308.2	275.3	263.3
65°	5038.4	3859.6	400.9	257.3	248.3	242.3	236.4	254.3	266.3	215.4	203.5
67.5°	1184.8	963.4	260.3	218.4	206.4	194.5	200.5	203.5	194.5	146.6	140.6
70°	308.2	302.2	203.5	182.5	164.6	152.6	152.6	149.6	128.7	92.8	86.8
72.5°	167.5	164.6	146.6	137.6	113.7	101.7	104.7	92.8	71.8	53.9	50.9
75°	83.8	89.8	83.8	77.8	62.8	56.8	56.8	50.9	35.9	20.9	20.9
77.5°	18.0	20.9	20.9	18.0	15.0	12.0	12.0	15.0	6.0	0.0	0.0
80°	3.0	3.0	3.0	3.0	3.0	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)