

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: P635767

Luminaire Tested: GWS-SA3E-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635767
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-SA3E-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16562.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

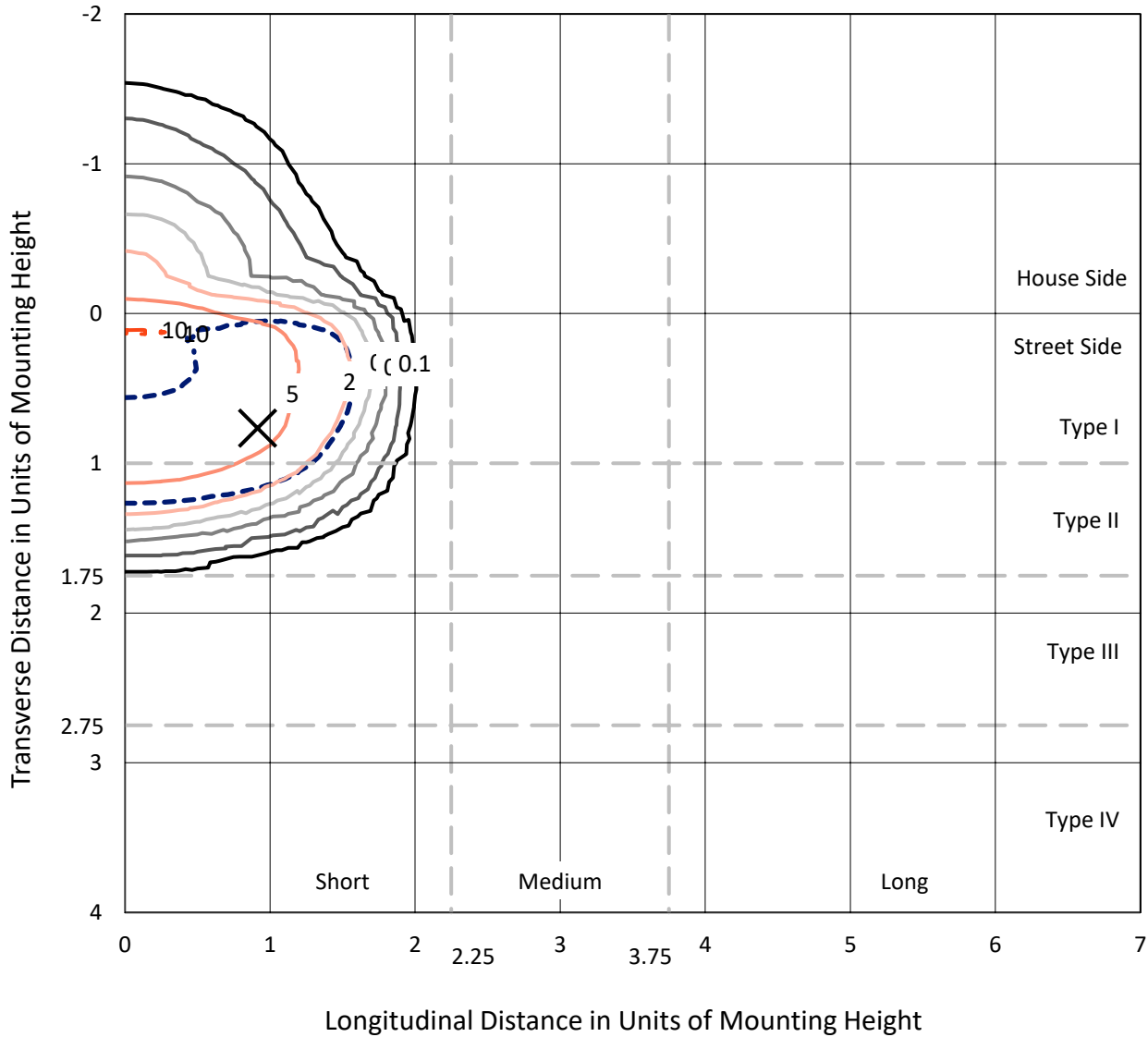
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

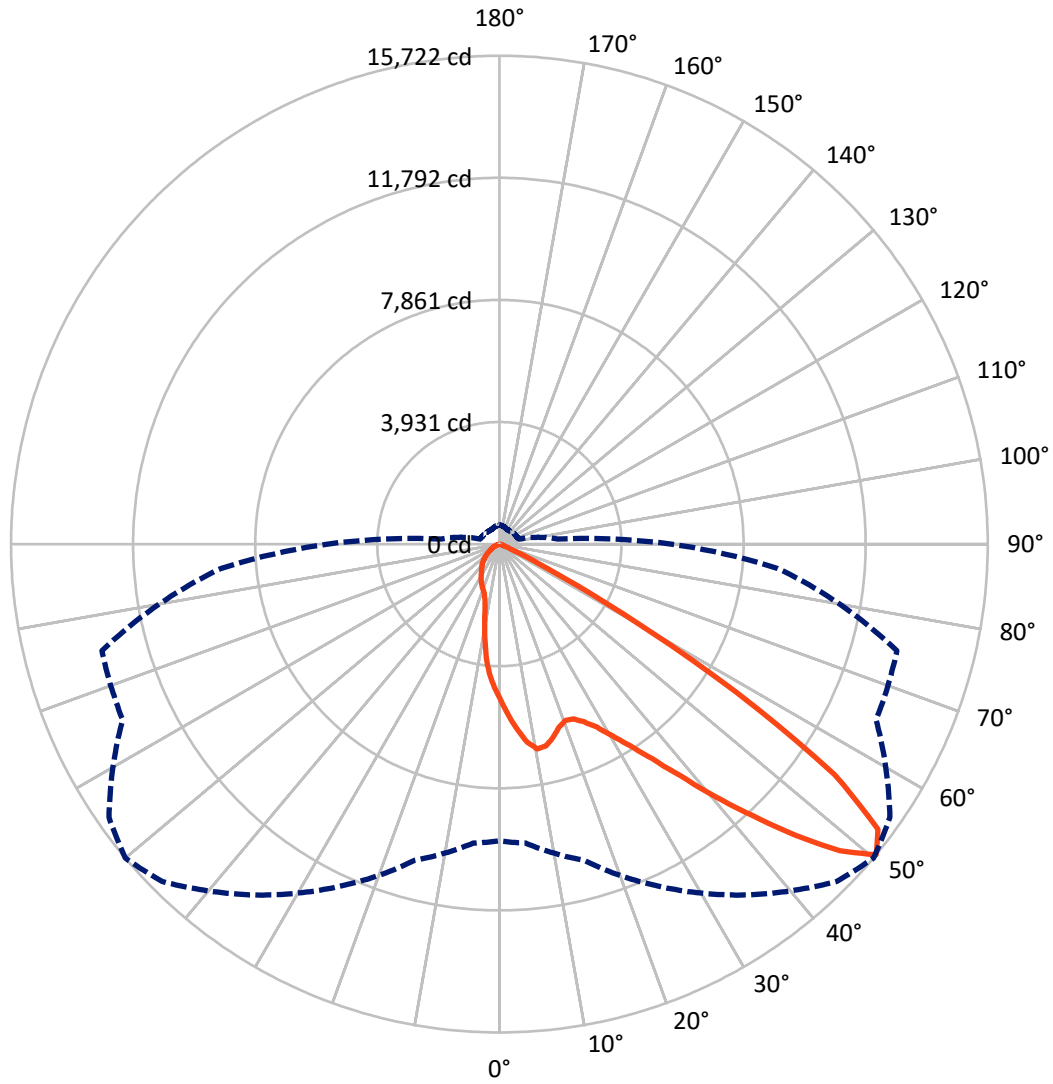
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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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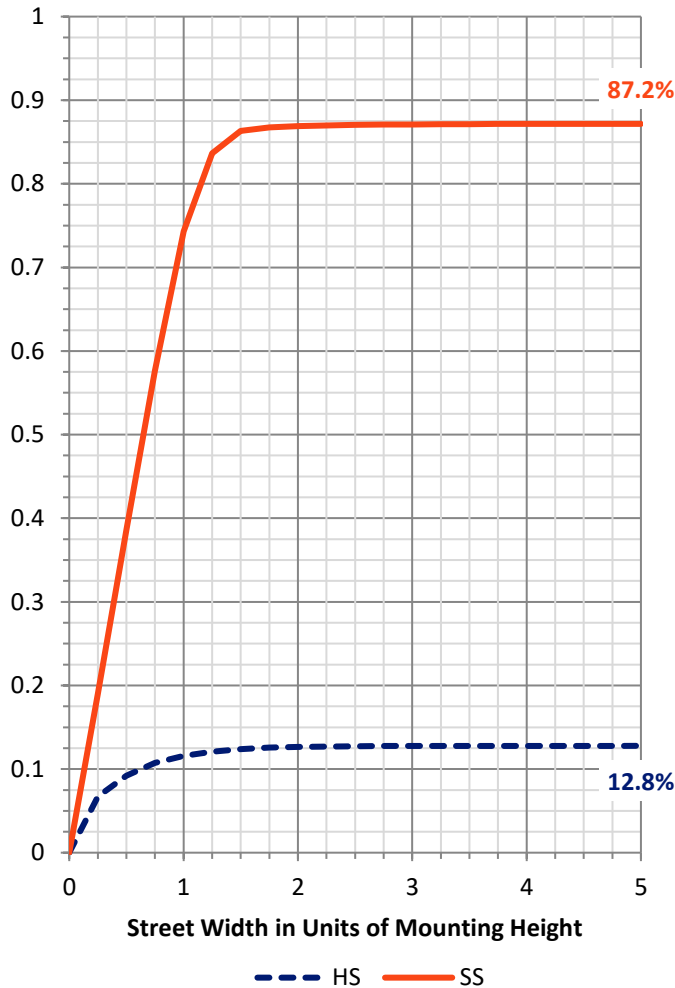
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.1	0.0	2128.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14434.7	0.0	14434.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	16562.8	0.0	16562.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.5	2.8
10°-20°	1201.0	7.3
20°-30°	1982.1	12.0
30°-40°	3270.8	19.7
40°-50°	5175.2	31.2
50°-60°	3918.2	23.7
60°-70°	490.4	3.0
70°-80°	55.5	0.3
80°-90°	4.2	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°	16562.8	100.0
0°-180°	16562.8	100.0

Coefficient of Utilization



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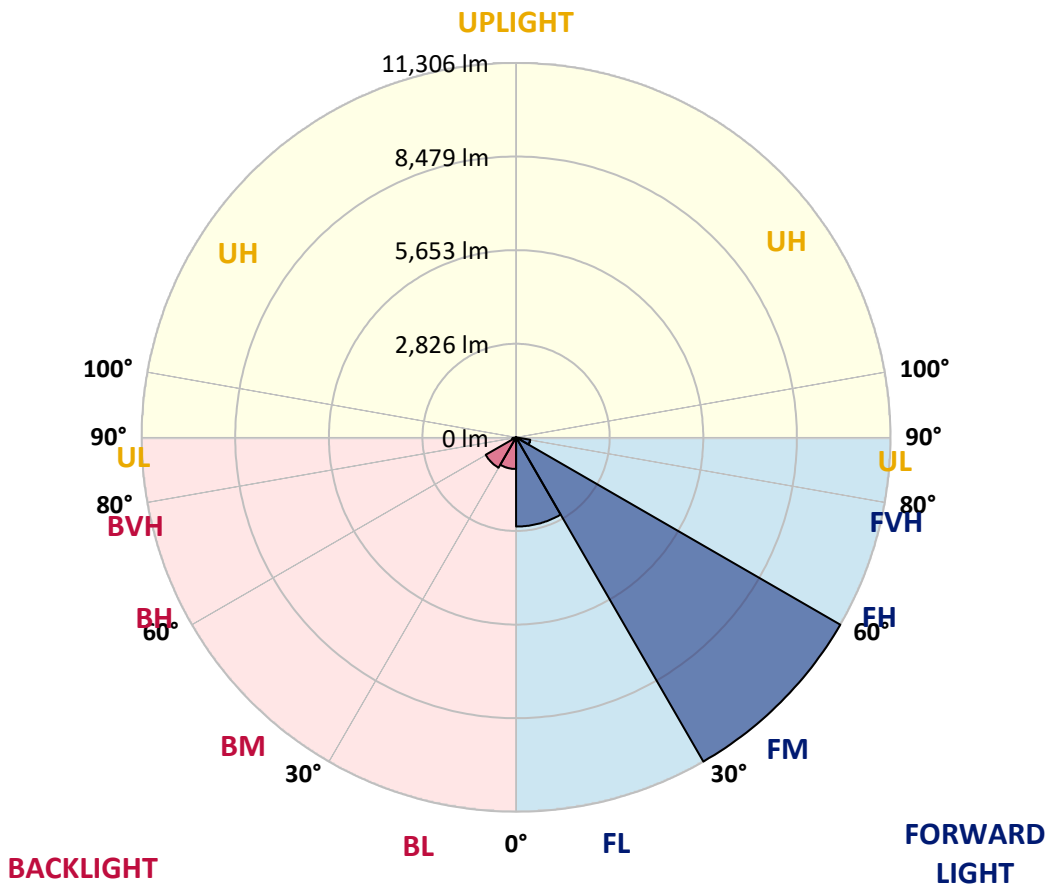
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2693.4	16.3			
FM (30°-60°)	11305.9	68.3			
FH (60°-80°)	433.6	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	955.2	5.8	B2/1000		
BM (30°-60°)	1058.3	6.4	B2/2500		
BH (60°-80°)	112.3	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9
2.5°	5717.8	5763.5	5750.9	5691.0	5626.4	5580.7	5509.7	5487.7	5326.9	5214.9	5096.7
5°	6408.3	6422.5	6406.7	6334.2	6220.7	6111.9	5995.3	5927.5	5657.9	5415.1	5167.6
7.5°	6573.8	6556.5	6586.4	6622.7	6606.9	6559.6	6436.7	6362.6	6041.0	5645.3	5270.1
10°	6056.8	6017.3	6129.3	6316.9	6513.9	6736.2	6704.7	6711.0	6414.6	5935.4	5404.1
12.5°	5371.0	5355.2	5438.8	5656.3	6042.6	6547.0	6668.4	6871.8	6756.7	6249.1	5557.0
15°	5069.9	5077.8	5128.2	5265.4	5542.8	6170.3	6461.9	6829.2	7062.5	6553.3	5725.7
17.5°	5115.6	5144.0	5142.4	5188.1	5356.8	5859.7	6200.2	6695.2	7299.0	6903.3	5919.6
20°	5426.2	5454.5	5412.0	5377.3	5434.1	5780.9	6063.1	6559.6	7458.2	7256.4	6124.5
22.5°	5891.2	5924.3	5823.4	5724.1	5687.9	5910.1	6115.1	6504.5	7579.6	7579.6	6307.4
25°	6454.0	6499.7	6343.7	6167.1	6066.2	6182.9	6337.4	6629.0	7704.2	7869.7	6432.0
27.5°	7083.0	7084.6	6950.6	6752.0	6562.8	6577.0	6670.0	6909.6	7841.3	8181.8	6529.7
30°	7790.9	7795.6	7617.5	7379.4	7141.4	7076.7	7155.5	7336.8	8126.6	8574.4	6665.3
32.5°	8705.2	8727.3	8471.9	8121.9	7812.9	7691.5	7737.3	7928.0	8580.7	9066.2	6868.6
35°	9941.2	9964.8	9588.0	9126.1	8634.3	8451.4	8497.1	8689.4	9238.1	9764.6	7193.4
37.5°	11161.3	11192.9	10811.4	10381.0	9706.3	9403.6	9450.9	9633.7	10224.9	10729.4	7713.6
40°	12004.7	12047.3	11929.1	11639.0	11013.1	10615.9	10672.6	10738.8	11311.1	11883.4	8388.3
42.5°	12449.3	12509.2	12559.7	12707.8	12378.4	12045.7	11949.6	11954.3	12416.2	13059.4	9089.9
45°	12476.1	12534.4	12793.0	13365.2	13615.9	13546.5	13371.5	13253.3	13259.6	13842.9	9528.1
47.5°	11609.0	11717.8	12201.8	13322.7	14265.4	14840.8	14752.5	14471.9	13614.3	13894.9	9480.8
50°	9554.9	9662.1	10541.8	12154.5	13792.4	15357.9	15722.0	15345.3	13382.6	13247.0	8993.7
52.5°	6939.6	6950.6	7521.3	9405.2	11875.5	14404.1	15261.7	15225.4	13029.4	12461.9	8328.4
55°	3296.4	3257.0	3898.6	5307.9	8213.4	11650.0	13095.6	13505.5	12528.1	11894.4	7812.9
57.5°	960.1	979.0	1264.3	2071.5	4108.3	7445.6	8968.5	9731.5	10283.2	9778.8	6059.9
60°	430.4	431.9	480.8	630.6	1368.4	3463.5	4636.4	5580.7	6148.2	5697.3	3006.3
62.5°	312.1	313.7	332.6	356.3	465.1	1172.9	1738.8	2317.4	2360.0	1544.9	761.4
65°	260.1	260.1	263.3	263.3	279.0	419.3	528.1	681.0	573.8	425.6	298.0
67.5°	209.7	211.2	214.4	214.4	209.7	209.7	227.0	249.1	266.4	329.5	274.3
70°	164.0	162.4	162.4	164.0	159.2	135.6	146.6	167.1	182.9	257.0	238.0
72.5°	127.7	129.3	127.7	121.4	110.4	80.4	86.7	108.8	116.7	160.8	160.8
75°	96.2	97.7	91.4	69.4	45.7	25.2	33.1	53.6	67.8	78.8	58.3
77.5°	12.6	12.6	9.5	9.5	7.9	9.5	9.5	12.6	18.9	18.9	14.2
80°	1.6	1.6	1.6	3.2	4.7	6.3	6.3	6.3	6.3	7.9	7.9
82.5°	1.6	1.6	1.6	1.6	4.7	4.7	6.3	6.3	6.3	6.3	6.3
85°	0.0	0.0	0.0	1.6	3.2	4.7	4.7	6.3	6.3	6.3	6.3
87.5°	0.0	0.0	0.0	1.6	3.2	4.7	4.7	4.7	6.3	6.3	6.3
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°	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9	5017.9
2.5°	5025.8	4934.3	4824.0	4748.3	4641.1	4570.2	4469.3	4401.5	4343.1	4297.4	4322.7
5°	5027.3	4882.3	4656.9	4464.5	4254.9	4062.5	3856.0	3693.6	3547.0	3480.8	3517.1
7.5°	5058.9	4850.8	4505.5	4163.4	3761.4	3364.2	2992.1	2689.4	2539.7	2468.7	2490.8
10°	5120.3	4836.6	4336.8	3769.3	3116.7	2574.4	2213.3	2008.4	1924.9	1880.7	1888.6
12.5°	5177.1	4827.1	4117.7	3250.7	2459.3	1997.4	1809.8	1781.4	1798.7	1800.3	1798.7
15°	5254.3	4809.8	3846.6	2717.8	1967.4	1726.2	1731.0	1771.9	1812.9	1825.5	1822.4
17.5°	5336.3	4783.0	3496.6	2207.0	1669.5	1647.4	1702.6	1757.8	1798.7	1805.0	1806.6
20°	5421.4	4727.8	3097.7	1801.9	1530.7	1587.5	1649.0	1690.0	1719.9	1729.4	1732.5
22.5°	5460.9	4611.1	2637.4	1511.8	1437.7	1513.4	1559.1	1612.7	1622.2	1587.5	1593.8
25°	5440.4	4414.1	2188.1	1316.3	1344.7	1420.4	1488.2	1461.4	1422.0	1396.7	1404.6
27.5°	5375.7	4152.4	1748.3	1172.9	1245.4	1341.6	1349.4	1319.5	1313.2	1292.7	1299.0
30°	5306.4	3851.3	1406.2	1057.8	1144.5	1245.4	1221.8	1232.8	1234.4	1210.7	1218.6
32.5°	5263.8	3536.0	1119.3	980.6	1079.9	1098.8	1146.1	1168.2	1169.7	1114.6	1124.0
35°	5278.0	3225.4	947.5	917.5	1020.0	1015.2	1081.5	1094.1	1002.6	927.0	934.8
37.5°	5393.1	2938.5	849.7	868.6	915.9	952.2	1002.6	919.1	898.6	863.9	868.6
40°	5607.5	2694.2	791.4	838.7	845.0	903.3	826.1	837.1	838.7	816.6	821.3
42.5°	5858.1	2490.8	756.7	821.3	805.6	815.0	737.8	759.9	783.5	774.0	775.6
45°	5984.2	2292.2	726.7	761.4	766.2	676.3	659.0	682.6	712.6	717.3	718.9
47.5°	5872.3	2103.0	695.2	674.7	706.3	616.4	595.9	603.8	638.5	657.4	660.5
50°	5530.2	1885.4	647.9	597.5	580.1	553.3	534.4	536.0	575.4	608.5	614.8
52.5°	5049.4	1658.4	570.7	506.0	466.6	487.1	491.9	482.4	518.7	551.8	558.1
55°	4582.8	1374.7	452.4	411.5	375.2	419.3	431.9	419.3	430.4	452.4	454.0
57.5°	3227.0	777.2	346.8	340.5	310.6	359.4	379.9	361.0	342.1	356.3	359.4
60°	1496.1	406.7	266.4	266.4	258.5	309.0	343.7	316.9	280.6	286.9	291.6
62.5°	468.2	257.0	195.5	184.4	211.2	263.3	291.6	264.8	222.3	222.3	228.6
65°	264.8	220.7	154.5	141.9	171.8	211.2	228.6	200.2	162.4	159.2	159.2
67.5°	245.9	209.7	137.2	115.1	121.4	135.6	141.9	123.0	111.9	110.4	111.9
70°	203.4	175.0	110.4	78.8	74.1	72.5	75.7	70.9	67.8	69.4	74.1
72.5°	126.1	105.6	69.4	47.3	41.0	39.4	39.4	39.4	37.8	37.8	37.8
75°	45.7	39.4	31.5	23.6	20.5	18.9	18.9	20.5	18.9	17.3	15.8
77.5°	14.2	12.6	12.6	12.6	11.0	9.5	7.9	7.9	6.3	4.7	4.7
80°	7.9	7.9	7.9	7.9	6.3	6.3	4.7	3.2	1.6	1.6	0.0
82.5°	7.9	7.9	7.9	6.3	6.3	6.3	4.7	3.2	1.6	0.0	0.0
85°	6.3	6.3	6.3	6.3	6.3	6.3	4.7	3.2	1.6	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	4.7	3.2	1.6	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)