

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: P635712

Luminaire Tested: GWS-SA3E-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635712
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16335.8 lumens
Efficiency: N/A
Efficacy: 102.6 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

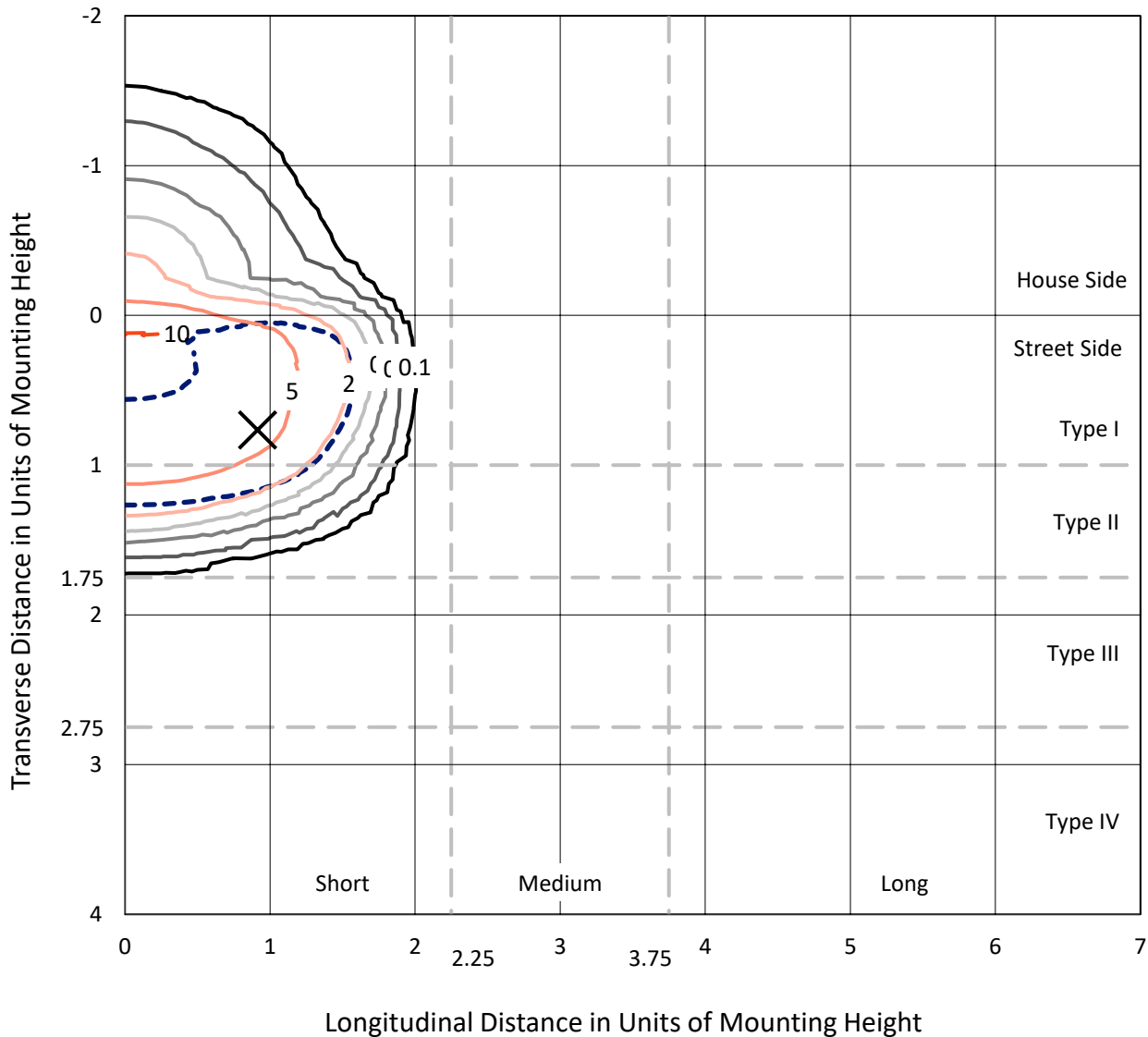
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

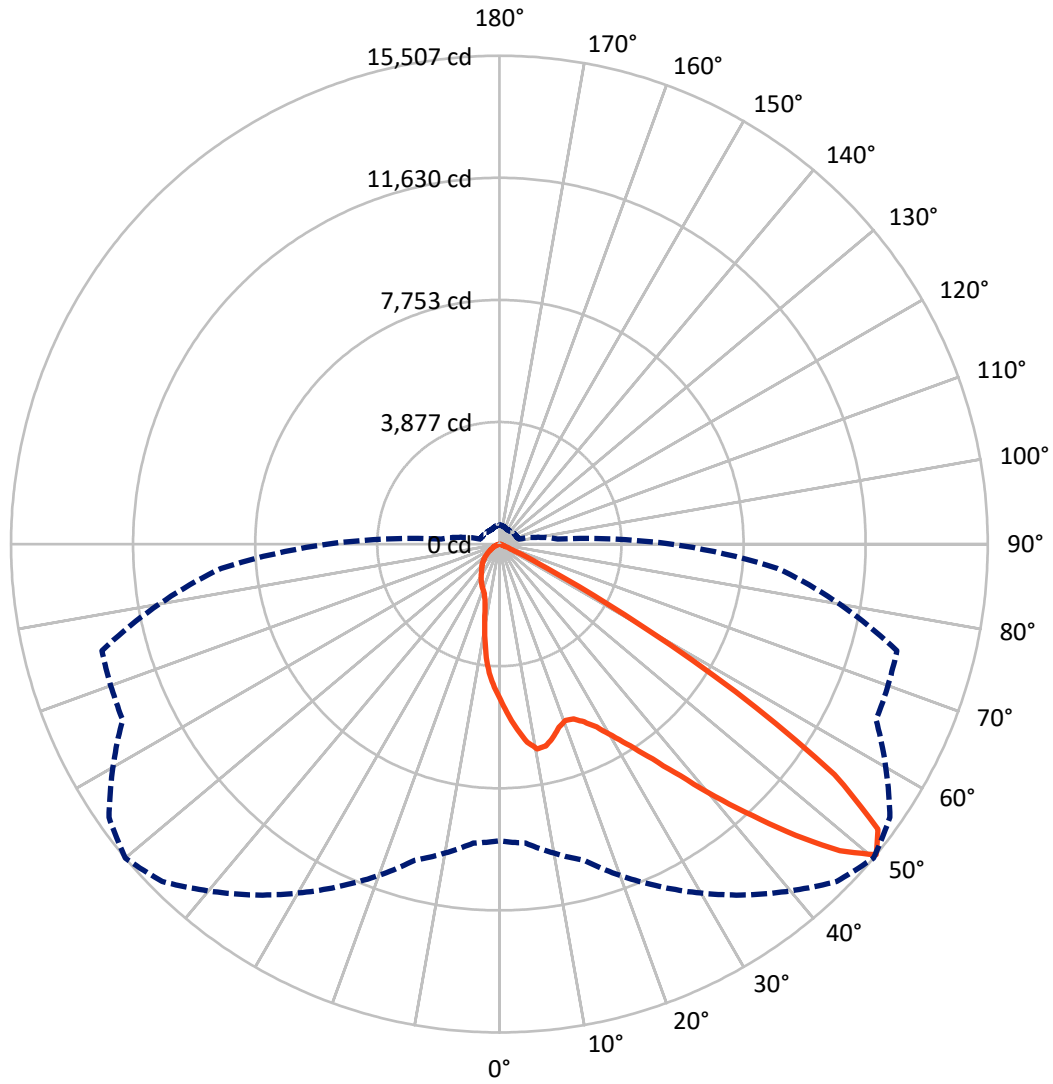
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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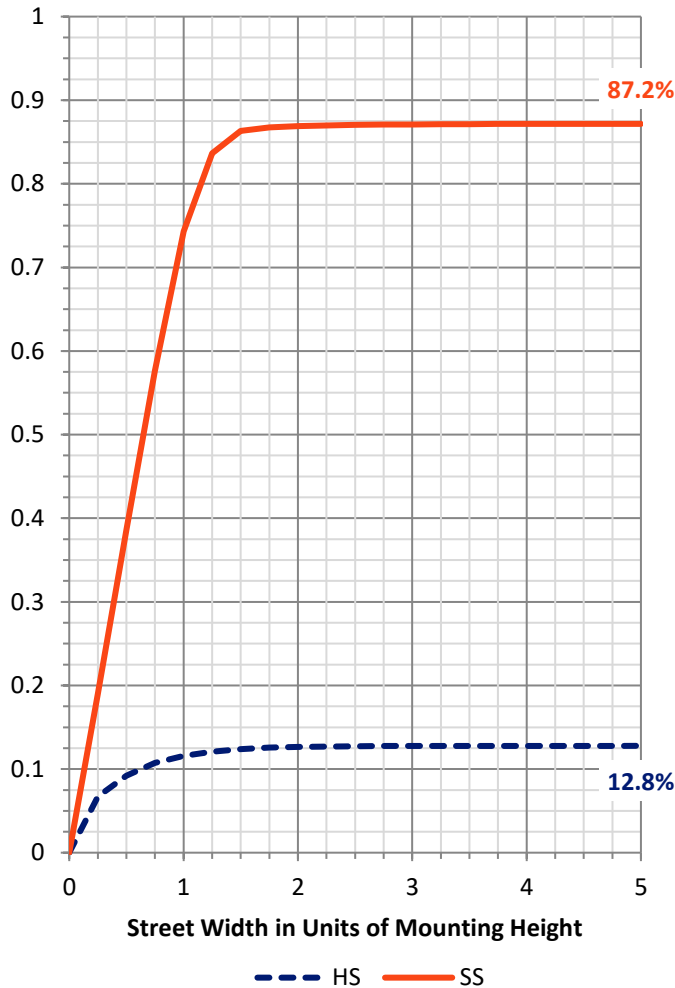
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.9	0.0	2098.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14236.9	0.0	14236.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	16335.8	0.0	16335.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.1	2.8
10°-20°	1184.5	7.3
20°-30°	1954.9	12.0
30°-40°	3226.0	19.7
40°-50°	5104.2	31.2
50°-60°	3864.5	23.7
60°-70°	483.7	3.0
70°-80°	54.7	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°	16335.8	100.0
0°-180°	16335.8	100.0

Coefficient of Utilization



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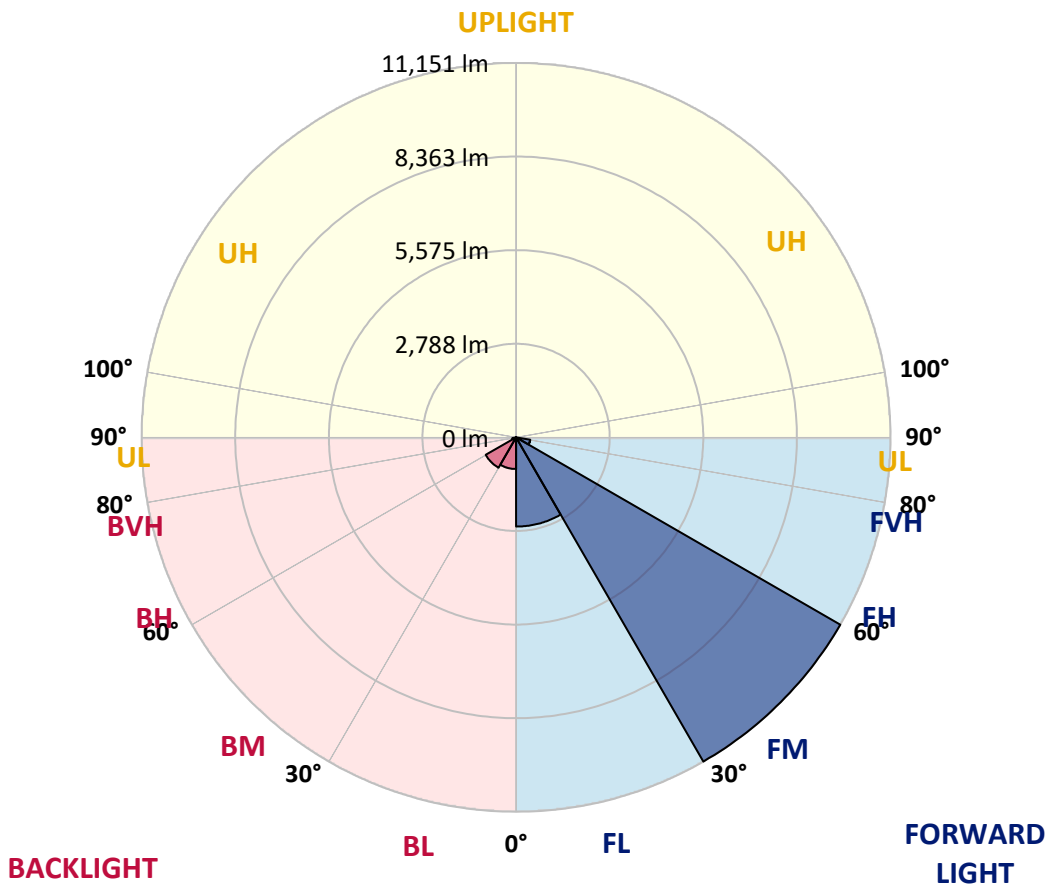
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.4	16.3			
FM (30°-60°)	11150.9	68.3			
FH (60°-80°)	427.6	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	942.1	5.8	B2/1000		
BM (30°-60°)	1043.8	6.4	B2/2500		
BH (60°-80°)	110.8	0.7	B1/500		G1/500
BVH (80°-90°)	2.2	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°	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1
2.5°	5639.5	5684.5	5672.1	5613.0	5549.3	5504.2	5434.2	5412.4	5253.8	5143.5	5026.8
5°	6320.5	6334.5	6318.9	6247.4	6135.5	6028.2	5913.1	5846.2	5580.4	5340.9	5096.8
7.5°	6483.7	6466.6	6496.2	6531.9	6516.4	6469.7	6348.5	6275.4	5958.2	5567.9	5197.9
10°	5973.7	5934.9	6045.3	6230.3	6424.7	6643.9	6612.8	6619.0	6326.7	5854.0	5330.0
12.5°	5297.4	5281.8	5364.2	5578.8	5959.8	6457.3	6577.0	6777.6	6664.1	6163.4	5480.9
15°	5000.4	5008.2	5057.9	5193.2	5466.9	6085.7	6373.3	6735.6	6965.7	6463.5	5647.2
17.5°	5045.5	5073.5	5071.9	5117.0	5283.4	5779.4	6115.2	6603.5	7199.0	6808.7	5838.5
20°	5351.8	5379.8	5337.8	5303.6	5359.6	5701.6	5980.0	6469.7	7356.0	7157.0	6040.6
22.5°	5810.5	5843.1	5743.6	5645.7	5609.9	5829.1	6031.3	6415.3	7475.7	7475.7	6221.0
25°	6365.6	6410.7	6256.7	6082.6	5983.1	6098.1	6250.5	6538.2	7598.6	7761.8	6343.8
27.5°	6986.0	6987.5	6855.3	6659.4	6472.9	6486.8	6578.6	6814.9	7733.8	8069.7	6440.2
30°	7684.1	7688.7	7513.1	7278.3	7043.5	6979.7	7057.5	7236.3	8015.3	8456.8	6573.9
32.5°	8585.9	8607.7	8355.8	8010.6	7705.9	7586.1	7631.2	7819.4	8463.1	8942.0	6774.5
35°	9804.9	9828.2	9456.6	9001.0	8515.9	8335.6	8380.7	8570.4	9111.4	9630.8	7094.8
37.5°	11008.4	11039.5	10663.2	10238.7	9573.2	9274.7	9321.3	9501.7	10084.8	10582.3	7607.9
40°	11840.2	11882.2	11765.6	11479.5	10862.2	10470.4	10526.4	10591.7	11156.1	11720.5	8273.4
42.5°	12278.7	12337.8	12387.5	12533.7	12208.7	11880.6	11785.8	11790.5	12246.0	12880.4	8965.3
45°	12305.1	12362.6	12617.6	13182.0	13429.3	13360.9	13188.3	13071.7	13077.9	13653.2	9397.5
47.5°	11449.9	11557.2	12034.6	13140.1	14069.9	14637.4	14550.3	14273.6	13427.7	13704.5	9350.9
50°	9424.0	9529.7	10397.3	11987.9	13603.4	15147.4	15506.6	15134.9	13199.1	13065.4	8870.4
52.5°	6844.5	6855.3	7418.2	9276.3	11712.7	14206.7	15052.5	15016.8	12850.9	12291.1	8214.3
55°	3251.2	3212.3	3845.2	5235.2	8100.8	11490.4	12916.2	13320.4	12356.4	11731.4	7705.9
57.5°	946.9	965.6	1247.0	2043.1	4051.9	7343.6	8845.6	9598.1	10142.3	9644.8	5976.9
60°	424.5	426.0	474.2	621.9	1349.6	3416.0	4572.8	5504.2	6063.9	5619.2	2965.1
62.5°	307.9	309.4	328.1	351.4	458.7	1156.8	1715.0	2285.6	2327.6	1523.8	751.0
65°	256.6	256.6	259.7	259.7	275.2	413.6	520.9	671.7	566.0	419.8	293.9
67.5°	206.8	208.4	211.5	211.5	206.8	206.8	223.9	245.7	262.8	325.0	270.5
70°	161.7	160.1	160.1	161.7	157.0	133.7	144.6	164.8	180.4	253.4	234.8
72.5°	125.9	127.5	125.9	119.7	108.8	79.3	85.5	107.3	115.1	158.6	158.6
75°	94.8	96.4	90.2	68.4	45.1	24.9	32.7	52.9	66.9	77.7	57.5
77.5°	12.4	12.4	9.3	9.3	7.8	9.3	9.3	12.4	18.7	18.7	14.0
80°	1.6	1.6	1.6	3.1	4.7	6.2	6.2	6.2	6.2	7.8	7.8
82.5°	1.6	1.6	1.6	1.6	4.7	4.7	6.2	6.2	6.2	6.2	6.2
85°	0.0	0.0	0.0	1.6	3.1	4.7	4.7	6.2	6.2	6.2	6.2
87.5°	0.0	0.0	0.0	1.6	3.1	4.7	4.7	4.7	6.2	6.2	6.2
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°	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1	4949.1
2.5°	4956.9	4866.7	4757.9	4683.2	4577.5	4507.5	4408.0	4341.2	4283.6	4238.5	4263.4
5°	4958.4	4815.4	4593.0	4403.3	4196.5	4006.9	3803.2	3643.0	3498.4	3433.1	3468.9
7.5°	4989.5	4784.3	4443.8	4106.4	3709.9	3318.1	2951.1	2652.6	2504.9	2434.9	2456.7
10°	5050.2	4770.3	4277.4	3717.7	3073.9	2539.1	2183.0	1980.9	1898.5	1854.9	1862.7
12.5°	5106.1	4761.0	4061.3	3206.1	2425.6	1970.0	1785.0	1757.0	1774.1	1775.6	1774.1
15°	5182.3	4743.9	3793.8	2680.6	1940.5	1702.6	1707.2	1747.7	1788.1	1800.5	1797.4
17.5°	5263.2	4717.4	3448.7	2176.8	1646.6	1624.8	1679.2	1733.7	1774.1	1780.3	1781.9
20°	5347.1	4663.0	3055.3	1777.2	1509.8	1565.7	1626.4	1666.8	1696.3	1705.7	1708.8
22.5°	5386.0	4547.9	2601.3	1491.1	1418.0	1492.7	1537.7	1590.6	1599.9	1565.7	1572.0
25°	5365.8	4353.6	2158.1	1298.3	1326.3	1400.9	1467.8	1441.3	1402.5	1377.6	1385.4
27.5°	5302.0	4095.5	1724.3	1156.8	1228.3	1323.2	1331.0	1301.4	1295.2	1275.0	1281.2
30°	5233.6	3798.5	1386.9	1043.3	1128.8	1228.3	1205.0	1215.9	1217.5	1194.1	1201.9
32.5°	5191.7	3487.5	1103.9	967.1	1065.1	1083.7	1130.4	1152.1	1153.7	1099.3	1108.6
35°	5205.6	3181.2	934.5	904.9	1006.0	1001.3	1066.6	1079.1	988.9	914.3	922.0
37.5°	5319.2	2898.2	838.1	856.7	903.4	939.1	988.9	906.5	886.3	852.1	856.7
40°	5530.6	2657.2	780.5	827.2	833.4	890.9	814.7	825.6	827.2	805.4	810.1
42.5°	5777.8	2456.7	746.3	810.1	794.5	803.9	727.7	749.4	772.8	763.4	765.0
45°	5902.2	2260.8	716.8	751.0	755.7	667.0	649.9	673.3	702.8	707.5	709.0
47.5°	5791.8	2074.2	685.7	665.5	696.6	607.9	587.7	595.5	629.7	648.4	651.5
50°	5454.4	1859.6	639.0	589.3	572.2	545.8	527.1	528.7	567.5	600.2	606.4
52.5°	4980.2	1635.7	562.9	499.1	460.2	480.4	485.1	475.8	511.5	544.2	550.4
55°	4520.0	1355.8	446.2	405.8	370.1	413.6	426.0	413.6	424.5	446.2	447.8
57.5°	3182.8	766.5	342.1	335.8	306.3	354.5	374.7	356.1	337.4	351.4	354.5
60°	1475.6	401.2	262.8	262.8	255.0	304.8	339.0	312.5	276.8	283.0	287.6
62.5°	461.8	253.4	192.8	181.9	208.4	259.7	287.6	261.2	219.2	219.2	225.5
65°	261.2	217.7	152.4	139.9	169.5	208.4	225.5	197.5	160.1	157.0	157.0
67.5°	242.6	206.8	135.3	113.5	119.7	133.7	139.9	121.3	110.4	108.8	110.4
70°	200.6	172.6	108.8	77.7	73.1	71.5	74.6	70.0	66.9	68.4	73.1
72.5°	124.4	104.2	68.4	46.6	40.4	38.9	38.9	38.9	37.3	37.3	37.3
75°	45.1	38.9	31.1	23.3	20.2	18.7	18.7	20.2	18.7	17.1	15.5
77.5°	14.0	12.4	12.4	12.4	10.9	9.3	7.8	7.8	6.2	4.7	4.7
80°	7.8	7.8	7.8	7.8	6.2	6.2	4.7	3.1	1.6	1.6	0.0
82.5°	7.8	7.8	7.8	6.2	6.2	6.2	4.7	3.1	1.6	0.0	0.0
85°	6.2	6.2	6.2	6.2	6.2	6.2	4.7	3.1	1.6	0.0	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.7	3.1	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)