

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: P640002

Luminaire Tested: GWS-SA5D-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640002
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16665.6 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

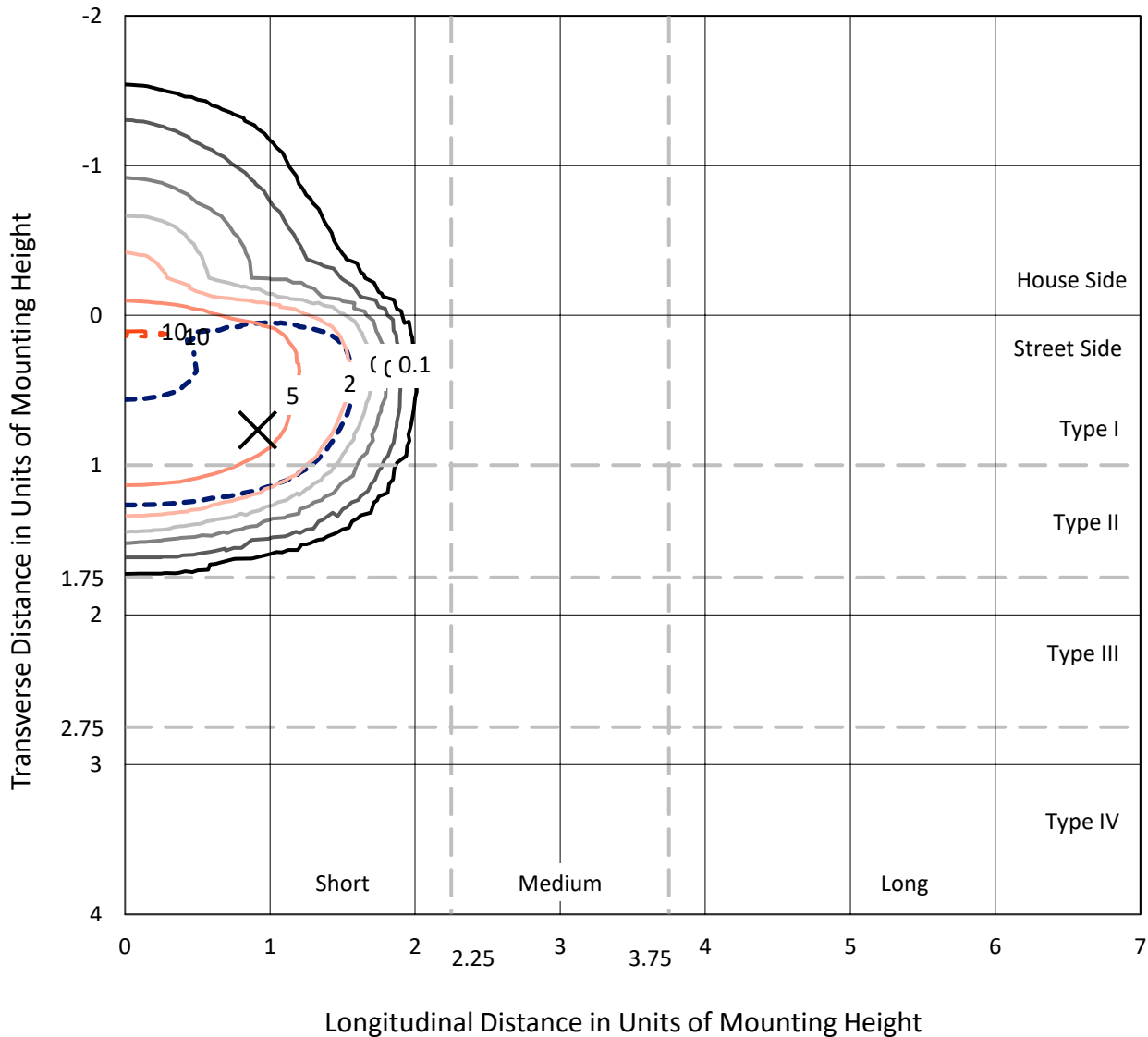
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

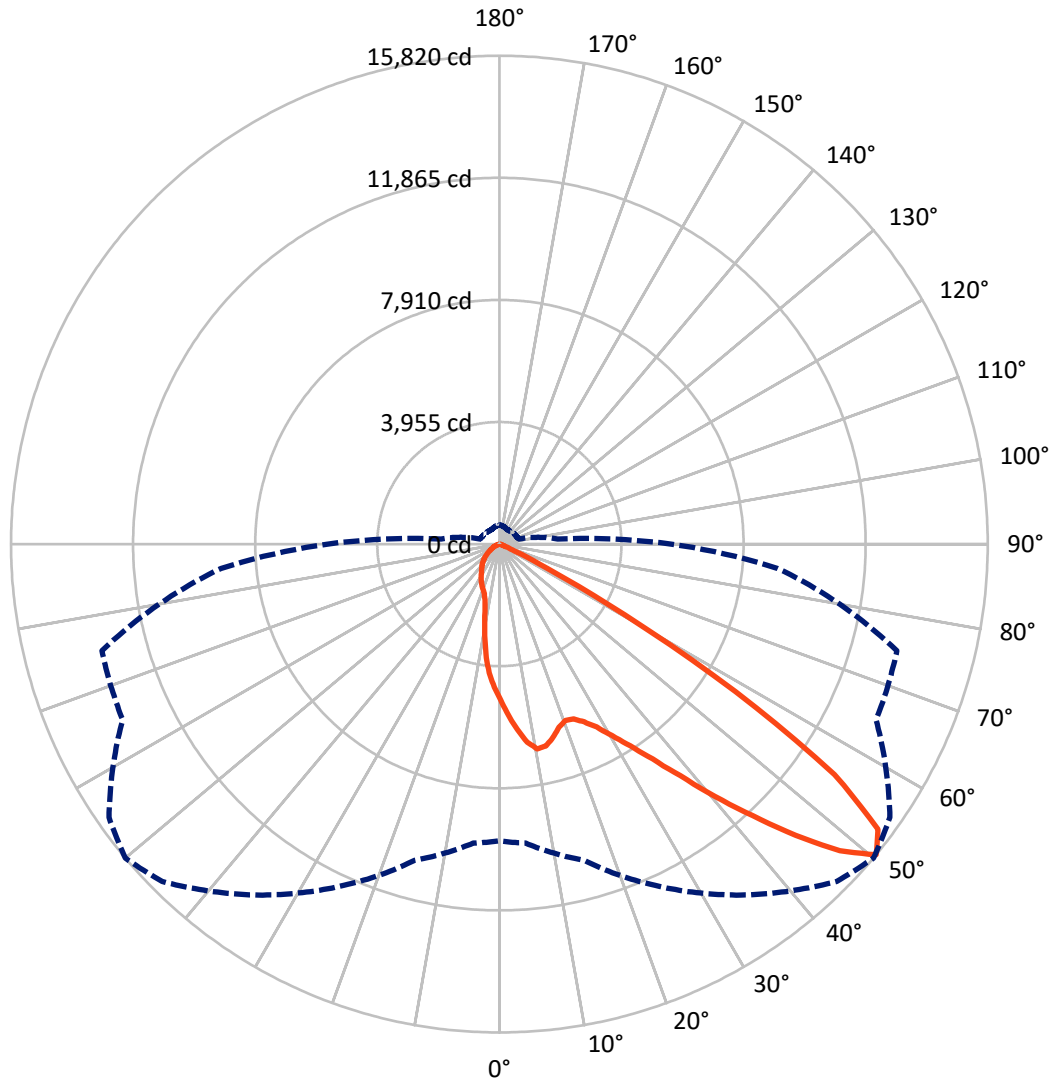
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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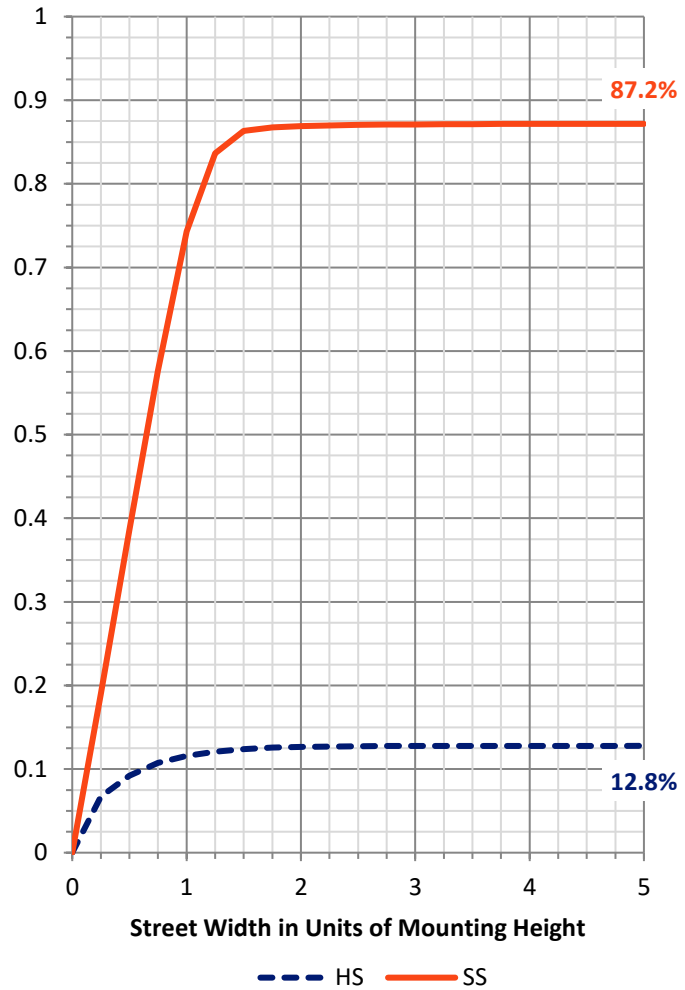
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2141.3	0.0	2141.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14524.3	0.0	14524.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	16665.6	0.0	16665.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.4	2.8
10°-20°	1208.4	7.3
20°-30°	1994.4	12.0
30°-40°	3291.1	19.7
40°-50°	5207.3	31.2
50°-60°	3942.5	23.7
60°-70°	493.4	3.0
70°-80°	55.8	0.3
80°-90°	4.3	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°	16665.6	100.0
0°-180°	16665.6	100.0

Coefficient of Utilization



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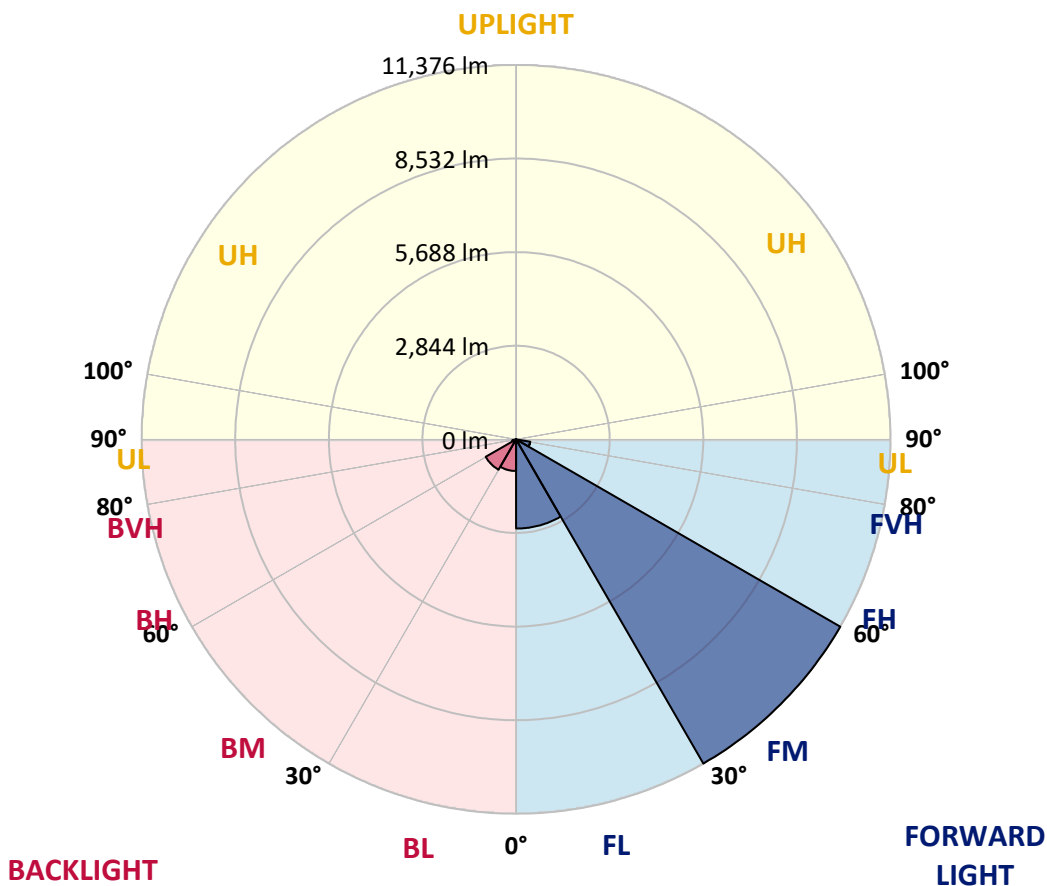
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2710.1	16.3			
FM (30°-60°)	11376.0	68.3			
FH (60°-80°)	436.2	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	961.1	5.8	B2/1000		
BM (30°-60°)	1064.9	6.4	B2/2500		
BH (60°-80°)	113.0	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°	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0
2.5°	5753.3	5799.3	5786.6	5726.3	5661.3	5615.3	5543.9	5521.7	5359.9	5247.3	5128.3
5°	6448.1	6462.4	6446.5	6373.5	6259.3	6149.9	6032.5	5964.3	5693.0	5448.7	5199.7
7.5°	6614.6	6597.2	6627.3	6663.8	6647.9	6600.4	6476.6	6402.1	6078.5	5680.3	5302.8
10°	6094.3	6054.7	6167.3	6356.1	6554.4	6778.0	6746.3	6752.6	6454.4	5972.2	5437.6
12.5°	5404.3	5388.5	5472.5	5691.4	6080.1	6587.7	6709.8	6914.4	6798.6	6287.9	5591.5
15°	5101.4	5109.3	5160.1	5298.1	5577.2	6208.6	6502.0	6871.6	7106.4	6594.0	5761.2
17.5°	5147.4	5175.9	5174.3	5220.3	5390.1	5896.1	6238.7	6736.8	7344.3	6946.2	5956.3
20°	5459.9	5488.4	5445.6	5410.7	5467.8	5816.8	6100.7	6600.4	7504.5	7301.5	6162.6
22.5°	5927.8	5961.1	5859.6	5759.7	5723.2	5946.8	6153.0	6544.8	7626.7	7626.7	6346.6
25°	6494.1	6540.1	6383.0	6205.4	6103.9	6221.2	6376.7	6670.2	7752.0	7918.5	6471.9
27.5°	7127.0	7128.6	6993.7	6793.9	6603.5	6617.8	6711.4	6952.5	7890.0	8232.6	6570.2
30°	7839.2	7844.0	7664.7	7425.2	7185.7	7120.6	7200.0	7382.4	8177.1	8627.6	6706.6
32.5°	8759.2	8781.4	8524.5	8172.3	7861.4	7739.3	7785.3	7977.2	8633.9	9122.5	6911.3
35°	10002.9	10026.6	9647.5	9182.8	8687.9	8503.9	8549.9	8743.4	9295.4	9825.2	7238.0
37.5°	11230.6	11262.3	10878.5	10445.4	9766.5	9461.9	9509.5	9693.5	10288.4	10796.0	7761.5
40°	12079.2	12122.1	12003.1	11711.2	11081.5	10681.8	10738.9	10805.5	11381.3	11957.1	8440.4
42.5°	12526.6	12586.8	12637.6	12786.7	12455.2	12120.5	12023.7	12028.5	12493.3	13140.4	9146.3
45°	12553.5	12612.2	12872.4	13448.2	13700.4	13630.6	13454.5	13335.6	13341.9	13928.8	9587.3
47.5°	11681.1	11790.6	12277.5	13405.3	14353.9	14932.9	14844.1	14561.7	13698.8	13981.2	9539.7
50°	9614.2	9722.1	10607.2	12229.9	13878.0	15453.2	15819.6	15440.5	13465.6	13329.2	9049.5
52.5°	6982.6	6993.7	7568.0	9463.5	11949.2	14493.5	15356.4	15319.9	13110.3	12539.3	8380.1
55°	3316.8	3277.2	3922.8	5340.9	8264.3	11722.3	13176.9	13589.4	12605.9	11968.2	7861.4
57.5°	966.0	985.1	1272.2	2084.3	4133.8	7491.8	9024.1	9791.9	10347.1	9839.5	6097.5
60°	433.0	434.6	483.8	634.5	1376.9	3485.0	4665.1	5615.3	6186.4	5732.7	3025.0
62.5°	314.1	315.7	334.7	358.5	467.9	1180.2	1749.6	2331.8	2374.6	1554.5	766.2
65°	261.7	261.7	264.9	264.9	280.8	421.9	531.4	685.3	577.4	428.3	299.8
67.5°	211.0	212.6	215.7	215.7	211.0	211.0	228.4	250.6	268.1	331.5	276.0
70°	165.0	163.4	163.4	165.0	160.2	136.4	147.5	168.1	184.0	258.6	239.5
72.5°	128.5	130.1	128.5	122.1	111.0	80.9	87.2	109.5	117.4	161.8	161.8
75°	96.8	98.3	92.0	69.8	46.0	25.4	33.3	53.9	68.2	79.3	58.7
77.5°	12.7	12.7	9.5	9.5	7.9	9.5	9.5	12.7	19.0	19.0	14.3
80°	1.6	1.6	1.6	3.2	4.8	6.3	6.3	6.3	6.3	7.9	7.9
82.5°	1.6	1.6	1.6	1.6	4.8	4.8	6.3	6.3	6.3	6.3	6.3
85°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	6.3	6.3	6.3	6.3
87.5°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	4.8	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°	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0	5049.0
2.5°	5056.9	4964.9	4853.9	4777.8	4669.9	4598.5	4497.0	4428.8	4370.1	4324.1	4349.5
5°	5058.5	4912.6	4685.8	4492.2	4281.3	4087.8	3880.0	3716.6	3569.0	3502.4	3538.9
7.5°	5090.3	4880.9	4533.5	4189.3	3784.8	3385.0	3010.7	2706.1	2555.4	2484.1	2506.3
10°	5152.1	4866.6	4363.8	3792.7	3136.0	2590.3	2227.1	2020.9	1936.8	1892.4	1900.3
12.5°	5209.2	4857.1	4143.3	3270.8	2474.5	2009.8	1821.0	1792.5	1809.9	1811.5	1809.9
15°	5287.0	4839.6	3870.4	2734.7	1979.6	1736.9	1741.7	1782.9	1824.2	1836.9	1833.7
17.5°	5369.4	4812.7	3518.3	2220.7	1679.8	1657.6	1713.1	1768.7	1809.9	1816.2	1817.8
20°	5455.1	4757.1	3117.0	1813.1	1540.2	1597.3	1659.2	1700.5	1730.6	1740.1	1743.3
22.5°	5494.7	4639.8	2653.8	1521.2	1446.7	1522.8	1568.8	1622.7	1632.2	1597.3	1603.7
25°	5474.1	4441.5	2201.7	1324.5	1353.1	1429.2	1497.4	1470.4	1430.8	1405.4	1413.3
27.5°	5409.1	4178.2	1759.1	1180.2	1253.1	1349.9	1357.8	1327.7	1321.3	1300.7	1307.1
30°	5339.3	3875.2	1414.9	1064.4	1151.6	1253.1	1229.3	1240.4	1242.0	1218.2	1226.2
32.5°	5296.5	3557.9	1126.2	986.6	1086.6	1105.6	1153.2	1175.4	1177.0	1121.5	1131.0
35°	5310.7	3245.5	953.3	923.2	1026.3	1021.5	1088.2	1100.9	1008.9	932.7	940.6
37.5°	5426.5	2956.8	855.0	874.0	921.6	958.1	1008.9	924.8	904.2	869.3	874.0
40°	5642.3	2710.9	796.3	843.9	850.2	908.9	831.2	842.3	843.9	821.7	826.4
42.5°	5894.5	2506.3	761.4	826.4	810.6	820.1	742.4	764.6	788.4	778.8	780.4
45°	6021.4	2306.4	731.3	766.2	770.9	680.5	663.0	686.8	717.0	721.7	723.3
47.5°	5908.8	2116.0	699.5	678.9	710.6	620.2	599.6	607.5	642.4	661.5	664.6
50°	5564.5	1897.1	651.9	601.2	583.7	556.8	537.7	539.3	579.0	612.3	618.6
52.5°	5080.7	1668.7	574.2	509.2	469.5	490.1	494.9	485.4	521.9	555.2	561.5
55°	4611.2	1383.2	455.3	414.0	377.5	421.9	434.6	421.9	433.0	455.3	456.8
57.5°	3247.0	782.0	349.0	342.6	312.5	361.7	382.3	363.2	344.2	358.5	361.7
60°	1505.3	409.3	268.1	268.1	260.1	310.9	345.8	318.8	282.4	288.7	293.5
62.5°	471.1	258.6	196.7	185.6	212.6	264.9	293.5	266.5	223.7	223.7	230.0
65°	266.5	222.1	155.5	142.8	172.9	212.6	230.0	201.5	163.4	160.2	160.2
67.5°	247.5	211.0	138.0	115.8	122.1	136.4	142.8	123.7	112.6	111.0	112.6
70°	204.6	176.1	111.0	79.3	74.6	73.0	76.1	71.4	68.2	69.8	74.6
72.5°	126.9	106.3	69.8	47.6	41.2	39.7	39.7	39.7	38.1	38.1	38.1
75°	46.0	39.7	31.7	23.8	20.6	19.0	19.0	20.6	19.0	17.4	15.9
77.5°	14.3	12.7	12.7	12.7	11.1	9.5	7.9	7.9	6.3	4.8	4.8
80°	7.9	7.9	7.9	7.9	6.3	6.3	4.8	3.2	1.6	1.6	0.0
82.5°	7.9	7.9	7.9	6.3	6.3	6.3	4.8	3.2	1.6	0.0	0.0
85°	6.3	6.3	6.3	6.3	6.3	6.3	4.8	3.2	1.6	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	4.8	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)