

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: P637637

Luminaire Tested: GWS-SA4D-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637637
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-SA4D-730-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16795.2 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

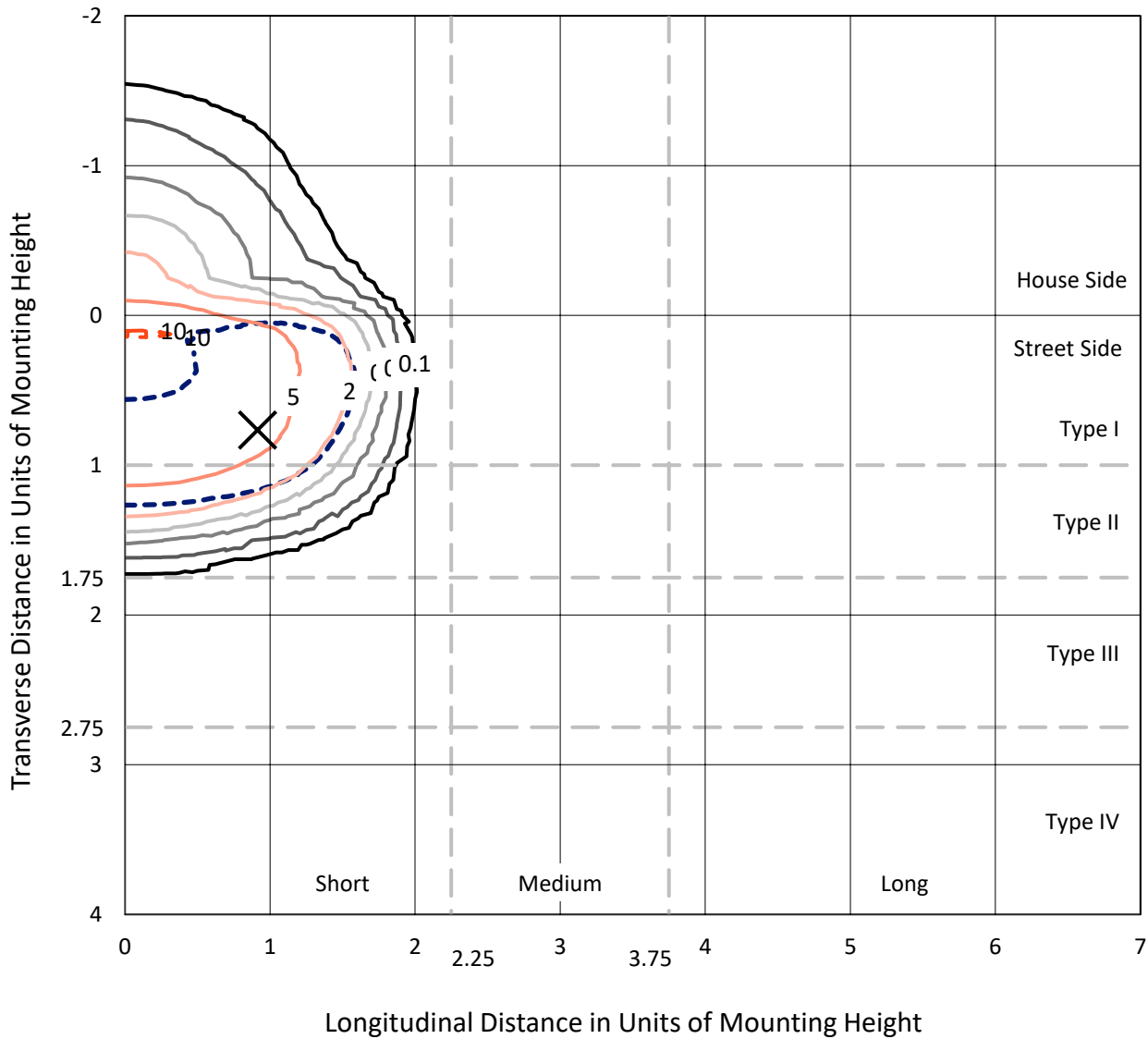
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

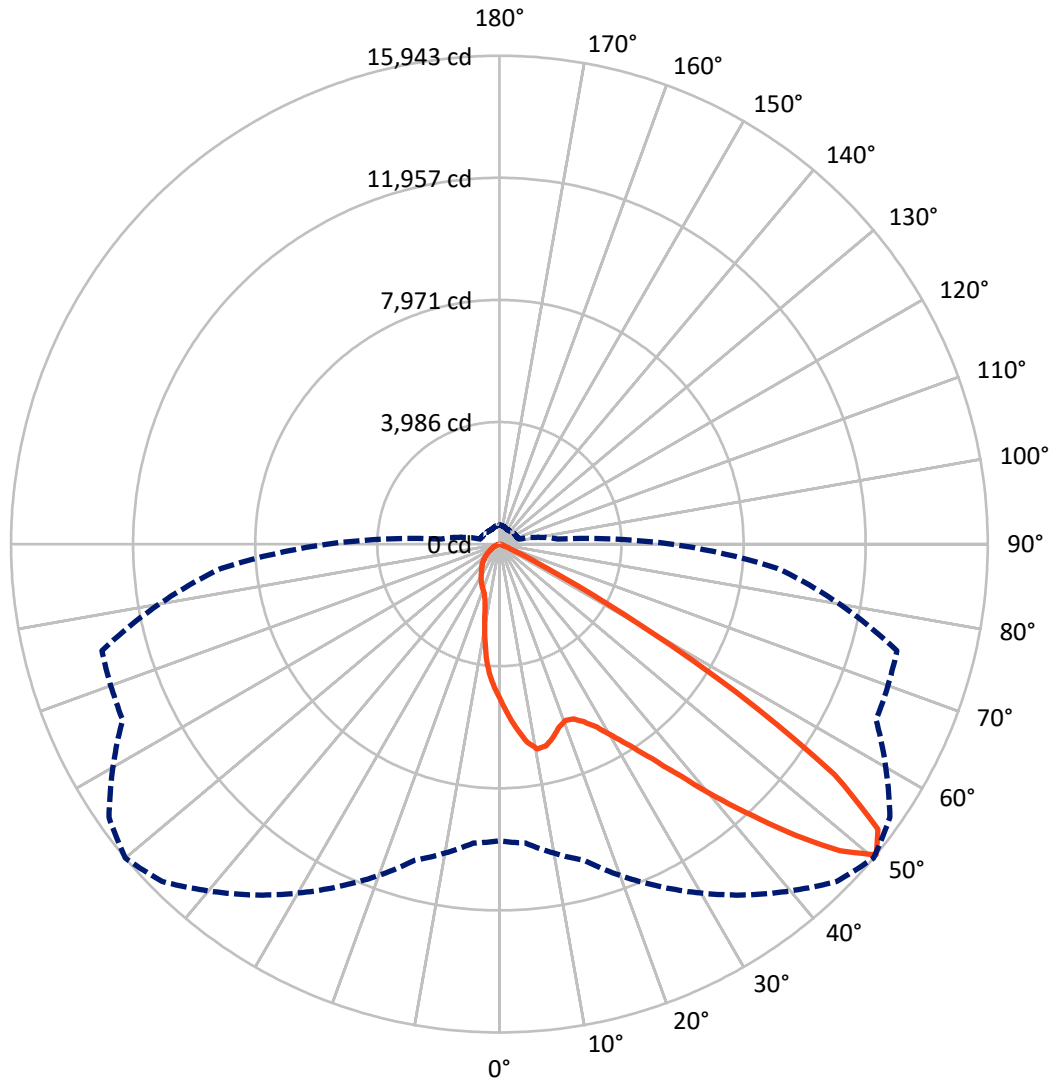
✕ Max cd
 - - - 1/2 Max cd



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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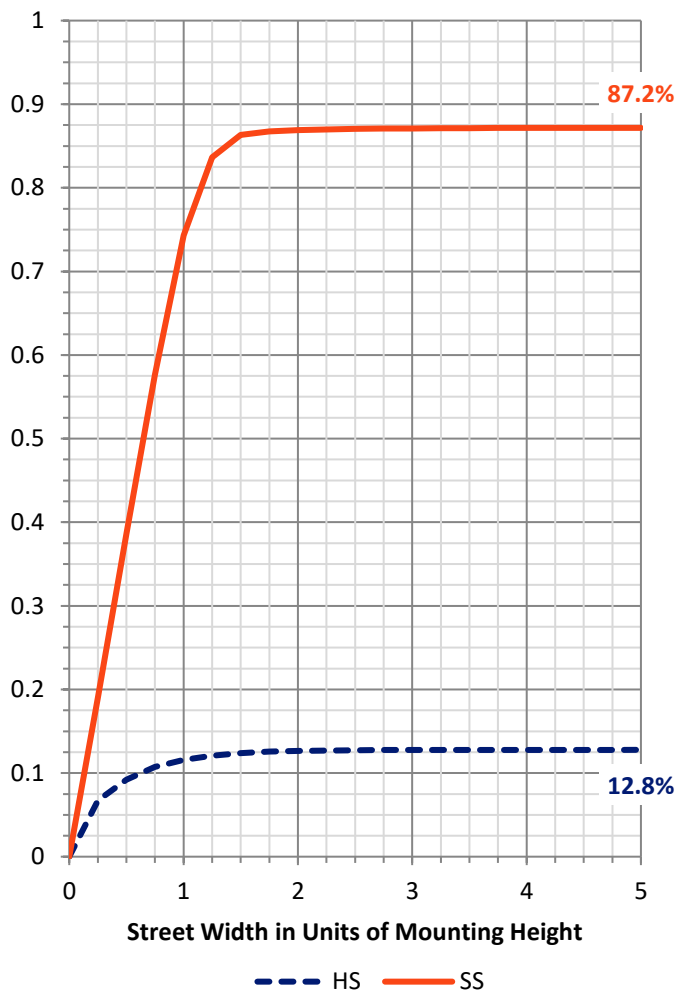
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.9	0.0	2157.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14637.3	0.0	14637.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	16795.2	0.0	16795.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.0	2.8
10°-20°	1217.8	7.3
20°-30°	2009.9	12.0
30°-40°	3316.7	19.7
40°-50°	5247.8	31.2
50°-60°	3973.2	23.7
60°-70°	497.3	3.0
70°-80°	56.3	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°	16795.2	100.0
0°-180°	16795.2	100.0

Coefficient of Utilization



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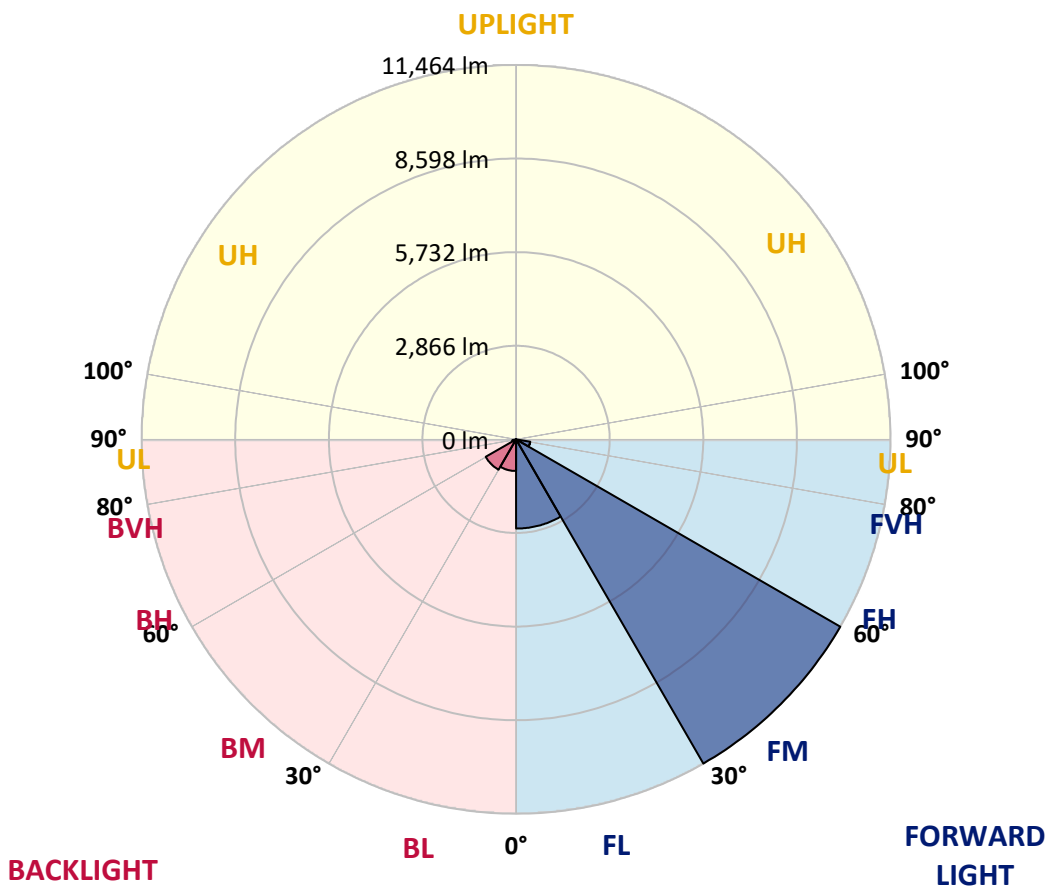
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.1	16.3			
FM (30°-60°)	11464.5	68.3			
FH (60°-80°)	439.7	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	968.6	5.8	B2/1000		
BM (30°-60°)	1073.2	6.4	B2/2500		
BH (60°-80°)	113.9	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°	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3
2.5°	5798.0	5844.4	5831.6	5770.9	5705.3	5659.0	5587.0	5564.7	5401.6	5288.1	5168.2
5°	6498.2	6512.6	6496.6	6423.1	6308.0	6197.7	6079.4	6010.7	5737.3	5491.1	5240.1
7.5°	6666.1	6648.5	6678.9	6715.6	6699.6	6651.7	6527.0	6451.9	6125.8	5724.5	5344.1
10°	6141.7	6101.8	6215.3	6405.5	6605.3	6830.7	6798.8	6805.2	6504.6	6018.7	5479.9
12.5°	5446.4	5430.4	5515.1	5735.7	6127.4	6638.9	6762.0	6968.2	6851.5	6336.8	5635.0
15°	5141.0	5149.0	5200.2	5339.3	5620.6	6256.8	6552.6	6925.0	7161.6	6645.3	5806.0
17.5°	5187.4	5216.2	5214.6	5260.9	5432.0	5941.9	6287.2	6789.2	7401.4	7000.2	6002.7
20°	5502.3	5531.1	5487.9	5452.8	5510.3	5862.0	6148.1	6651.7	7562.9	7358.3	6210.5
22.5°	5973.9	6007.5	5905.2	5804.4	5767.7	5993.1	6200.9	6595.7	7686.0	7686.0	6395.9
25°	6544.6	6590.9	6432.7	6253.6	6151.3	6269.6	6426.3	6722.0	7812.3	7980.1	6522.2
27.5°	7182.4	7184.0	7048.1	6846.7	6654.9	6669.3	6763.6	7006.6	7951.3	8296.6	6621.3
30°	7900.2	7905.0	7724.3	7482.9	7241.6	7176.0	7256.0	7439.8	8240.7	8694.7	6758.8
32.5°	8827.4	8849.7	8590.8	8235.9	7922.6	7799.5	7845.8	8039.3	8701.1	9193.4	6965.0
35°	10080.6	10104.6	9722.6	9254.2	8755.4	8570.0	8616.3	8811.4	9367.7	9901.6	7294.3
37.5°	11317.9	11349.9	10963.1	10526.6	9842.5	9535.5	9583.5	9768.9	10368.4	10879.9	7821.8
40°	12173.2	12216.3	12096.4	11802.3	11167.7	10764.8	10822.4	10889.5	11469.8	12050.1	8506.0
42.5°	12624.0	12684.7	12735.9	12886.1	12552.0	12214.7	12117.2	12122.0	12590.4	13242.6	9217.4
45°	12651.2	12710.3	12972.5	13552.8	13806.9	13736.6	13559.1	13439.3	13445.7	14037.1	9661.8
47.5°	11771.9	11882.2	12373.0	13509.6	14465.5	15049.0	14959.5	14675.0	13805.3	14089.9	9613.9
50°	9689.0	9797.7	10689.7	12325.0	13986.0	15573.4	15942.6	15560.6	13570.3	13432.9	9119.9
52.5°	7036.9	7048.1	7626.8	9537.1	12042.1	14606.2	15475.8	15439.1	13212.3	12636.8	8445.3
55°	3342.6	3302.7	3953.3	5382.4	8328.6	11813.5	13279.4	13695.0	12703.9	12061.3	7922.6
57.5°	973.5	992.7	1282.1	2100.5	4165.9	7550.1	9094.3	9868.0	10427.5	9916.0	6144.9
60°	436.4	438.0	487.6	639.4	1387.6	3512.1	4701.4	5659.0	6234.5	5777.3	3048.5
62.5°	316.5	318.1	337.3	361.3	471.6	1189.3	1763.2	2349.9	2393.1	1566.6	772.1
65°	263.8	263.8	267.0	267.0	282.9	425.2	535.5	690.6	581.9	431.6	302.1
67.5°	212.6	214.2	217.4	217.4	212.6	212.6	230.2	252.6	270.2	334.1	278.2
70°	166.3	164.7	164.7	166.3	161.5	137.5	148.7	169.4	185.4	260.6	241.4
72.5°	129.5	131.1	129.5	123.1	111.9	81.5	87.9	110.3	118.3	163.1	163.1
75°	97.5	99.1	92.7	70.3	46.4	25.6	33.6	54.4	68.7	79.9	59.1
77.5°	12.8	12.8	9.6	9.6	8.0	9.6	9.6	12.8	19.2	19.2	14.4
80°	1.6	1.6	1.6	3.2	4.8	6.4	6.4	6.4	6.4	8.0	8.0
82.5°	1.6	1.6	1.6	1.6	4.8	4.8	6.4	6.4	6.4	6.4	6.4
85°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	6.4	6.4	6.4	6.4
87.5°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	4.8	6.4	6.4	6.4
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°	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3	5088.3
2.5°	5096.3	5003.6	4891.7	4814.9	4706.2	4634.3	4532.0	4463.2	4404.1	4357.7	4383.3
5°	5097.9	4950.8	4722.2	4527.2	4314.6	4119.5	3910.1	3745.5	3596.8	3529.7	3566.4
7.5°	5129.8	4918.8	4568.7	4221.8	3814.2	3411.4	3034.1	2727.2	2575.3	2503.4	2525.8
10°	5192.2	4904.4	4397.7	3822.2	3160.4	2610.5	2244.4	2036.6	1951.9	1907.1	1915.1
12.5°	5249.7	4894.8	4175.5	3296.3	2493.8	2025.4	1835.2	1806.4	1824.0	1825.6	1824.0
15°	5328.1	4877.3	3900.5	2756.0	1995.0	1750.4	1755.2	1796.8	1838.4	1851.2	1848.0
17.5°	5411.2	4850.1	3545.6	2238.0	1692.9	1670.5	1726.5	1782.4	1824.0	1830.4	1832.0
20°	5497.5	4794.1	3141.2	1827.2	1552.2	1609.8	1672.1	1713.7	1744.1	1753.6	1756.8
22.5°	5537.5	4675.8	2674.4	1533.0	1457.9	1534.6	1581.0	1635.3	1644.9	1609.8	1616.2
25°	5516.7	4476.0	2218.8	1334.8	1363.6	1440.3	1509.1	1481.9	1441.9	1416.3	1424.3
27.5°	5451.2	4210.7	1772.8	1189.3	1262.9	1360.4	1368.4	1338.0	1331.6	1310.8	1317.2
30°	5380.8	3905.3	1425.9	1072.6	1160.6	1262.9	1238.9	1250.1	1251.7	1227.7	1235.7
32.5°	5337.7	3585.6	1135.0	994.3	1095.0	1114.2	1162.2	1184.5	1186.1	1130.2	1139.8
35°	5352.0	3270.7	960.7	930.4	1034.3	1029.5	1096.6	1109.4	1016.7	940.0	948.0
37.5°	5468.7	2979.8	861.6	880.8	928.8	965.5	1016.7	932.0	911.2	876.0	880.8
40°	5686.1	2732.0	802.5	850.4	856.8	916.0	837.7	848.8	850.4	828.1	832.9
42.5°	5940.3	2525.8	767.3	832.9	816.9	826.5	748.1	770.5	794.5	784.9	786.5
45°	6068.2	2324.3	736.9	772.1	776.9	685.8	668.2	692.2	722.6	727.4	729.0
47.5°	5954.7	2132.5	705.0	684.2	716.2	625.0	604.3	612.3	647.4	666.6	669.8
50°	5607.8	1911.9	657.0	605.9	588.3	561.1	541.9	543.5	583.5	617.1	623.4
52.5°	5120.2	1681.7	578.7	513.1	473.2	494.0	498.8	489.2	525.9	559.5	565.9
55°	4647.1	1394.0	458.8	417.2	380.5	425.2	438.0	425.2	436.4	458.8	460.4
57.5°	3272.3	788.1	351.7	345.3	314.9	364.5	385.3	366.1	346.9	361.3	364.5
60°	1517.1	412.4	270.2	270.2	262.2	313.3	348.5	321.3	284.5	290.9	295.7
62.5°	474.8	260.6	198.2	187.0	214.2	267.0	295.7	268.6	225.4	225.4	231.8
65°	268.6	223.8	156.7	143.9	174.2	214.2	231.8	203.0	164.7	161.5	161.5
67.5°	249.4	212.6	139.1	116.7	123.1	137.5	143.9	124.7	113.5	111.9	113.5
70°	206.2	177.4	111.9	79.9	75.1	73.5	76.7	71.9	68.7	70.3	75.1
72.5°	127.9	107.1	70.3	48.0	41.6	40.0	40.0	40.0	38.4	38.4	38.4
75°	46.4	40.0	32.0	24.0	20.8	19.2	19.2	20.8	19.2	17.6	16.0
77.5°	14.4	12.8	12.8	12.8	11.2	9.6	8.0	8.0	6.4	4.8	4.8
80°	8.0	8.0	8.0	8.0	6.4	6.4	4.8	3.2	1.6	1.6	0.0
82.5°	8.0	8.0	8.0	6.4	6.4	6.4	4.8	3.2	1.6	0.0	0.0
85°	6.4	6.4	6.4	6.4	6.4	6.4	4.8	3.2	1.6	0.0	0.0
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	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)