

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: P638022

Luminaire Tested: GWS-SA4E-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638022
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-SA4E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16977.2 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

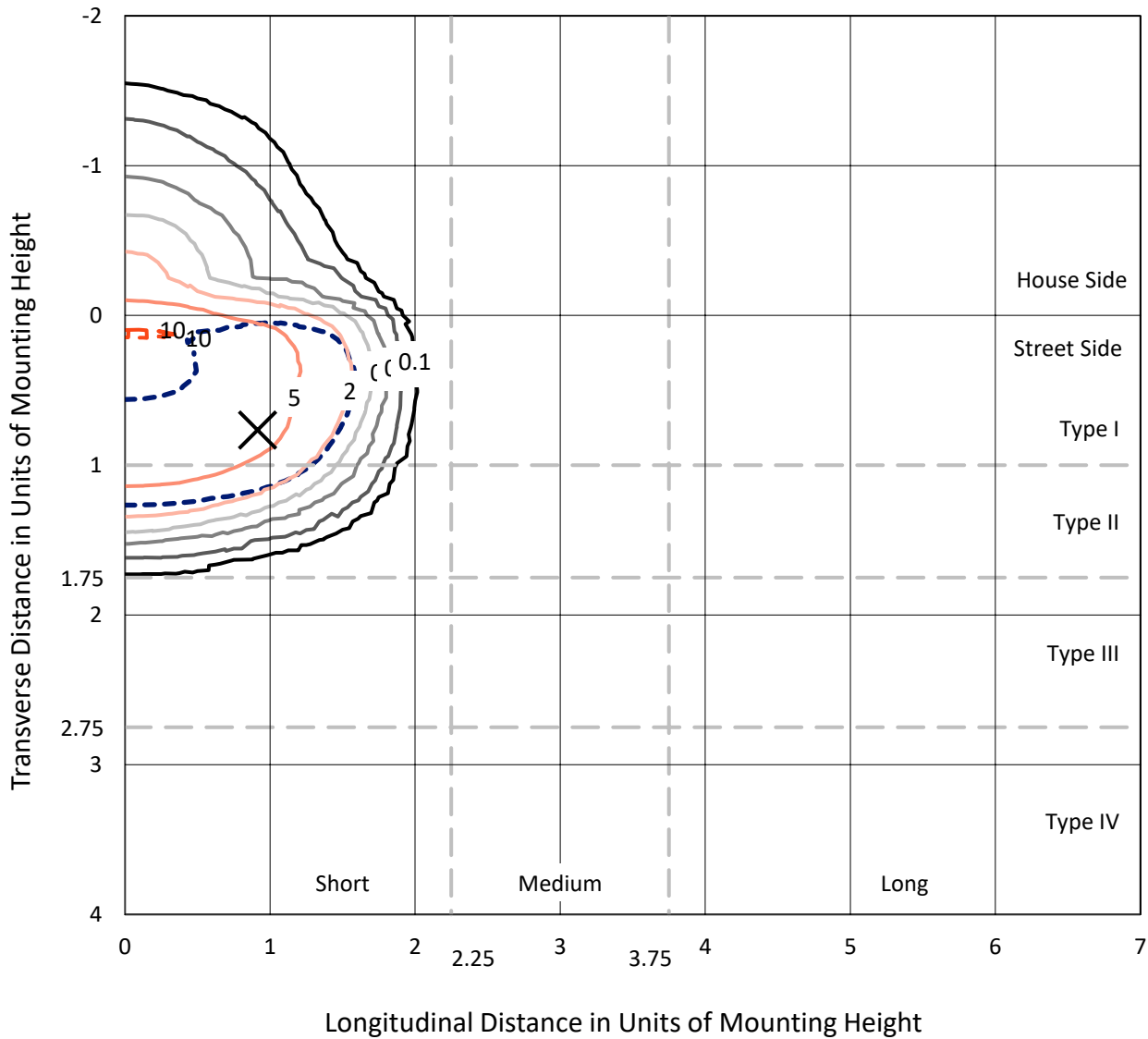
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

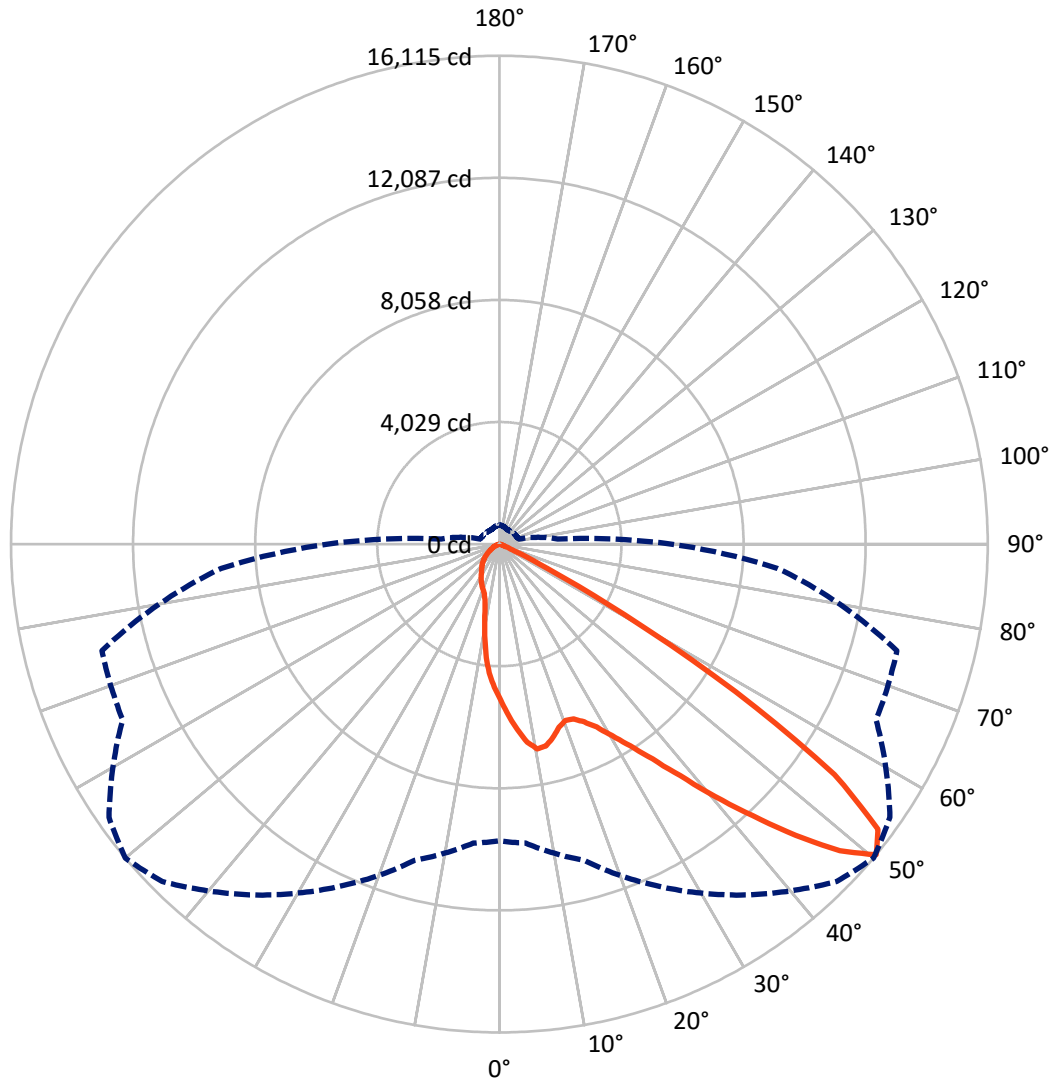
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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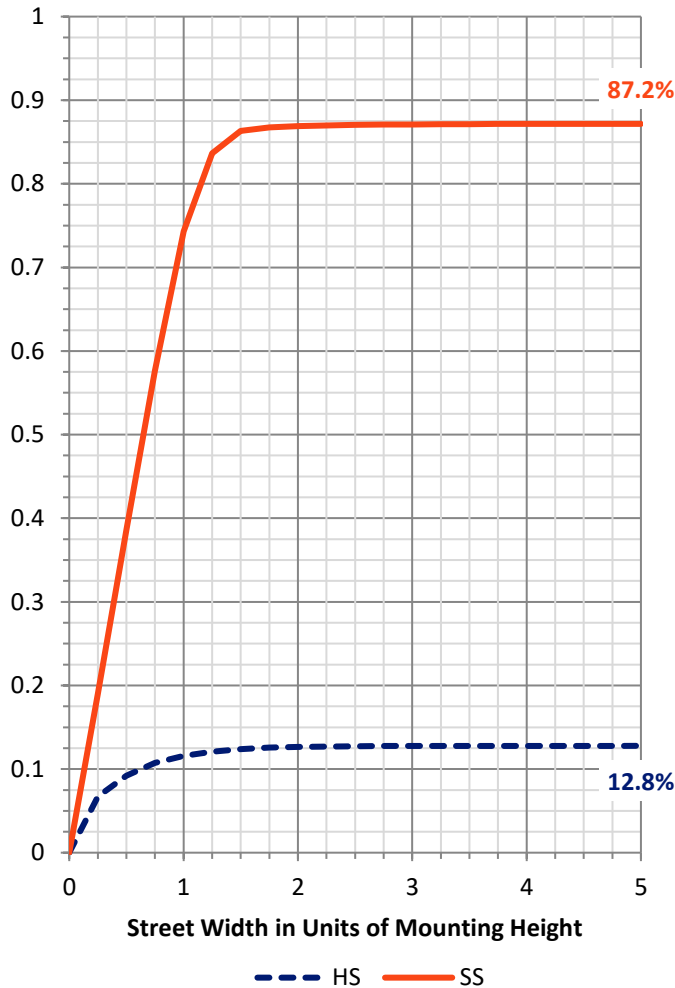
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2181.3	0.0	2181.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14795.9	0.0	14795.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	16977.2	0.0	16977.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.1	2.8
10°-20°	1231.0	7.3
20°-30°	2031.6	12.0
30°-40°	3352.6	19.7
40°-50°	5304.6	31.2
50°-60°	4016.2	23.7
60°-70°	502.7	3.0
70°-80°	56.9	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°	16977.2	100.0
0°-180°	16977.2	100.0

Coefficient of Utilization



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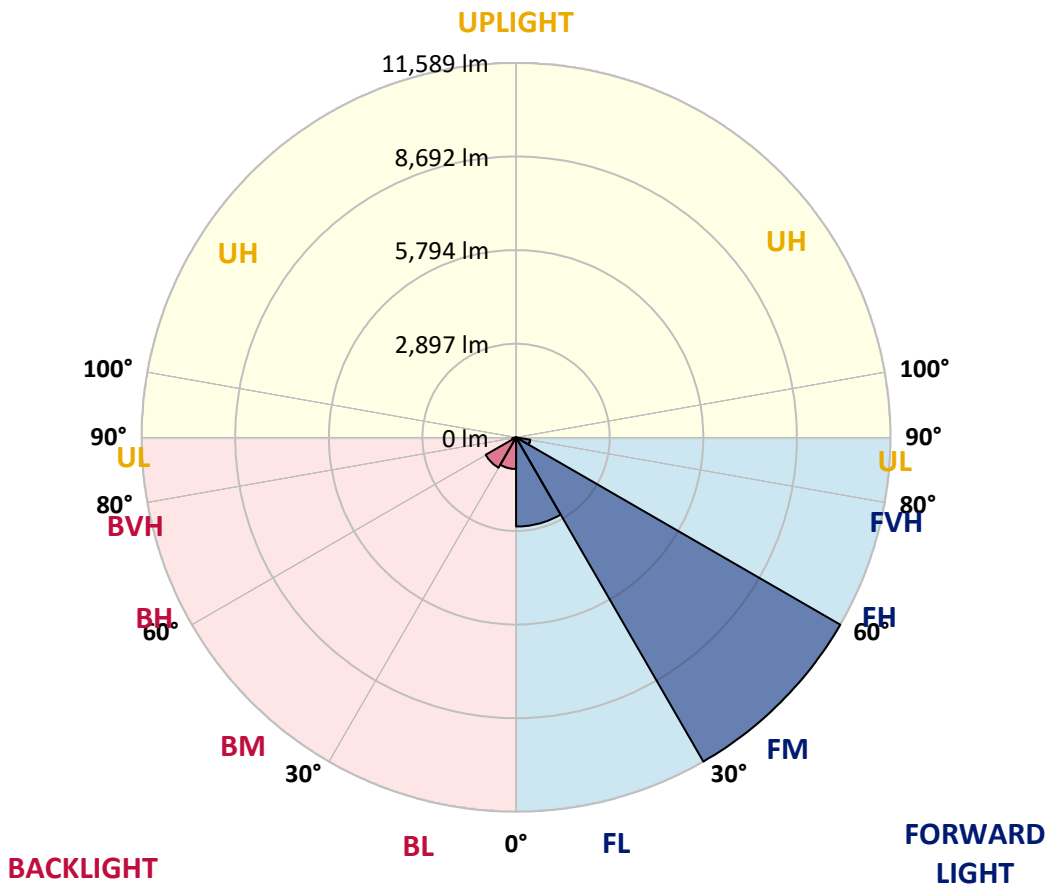
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.7	16.3			
FM (30°-60°)	11588.7	68.3			
FH (60°-80°)	444.4	2.6			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	979.1	5.8	B2/1000		
BM (30°-60°)	1084.8	6.4	B2/2500		
BH (60°-80°)	115.1	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°	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4
2.5°	5860.9	5907.7	5894.8	5833.4	5767.2	5720.3	5647.6	5625.0	5460.1	5345.4	5224.2
5°	6568.6	6583.2	6567.0	6492.7	6376.4	6264.9	6145.3	6075.8	5799.5	5550.6	5296.9
7.5°	6738.3	6720.5	6751.2	6788.4	6772.2	6723.8	6597.7	6521.8	6192.1	5786.5	5402.0
10°	6208.3	6167.9	6282.6	6474.9	6676.9	6904.8	6872.4	6878.9	6575.1	6083.9	5539.3
12.5°	5505.4	5489.2	5574.9	5797.9	6193.8	6710.8	6835.3	7043.7	6925.8	6405.4	5696.1
15°	5196.7	5204.8	5256.5	5397.1	5681.5	6324.6	6623.6	7000.1	7239.2	6717.3	5869.0
17.5°	5243.6	5272.7	5271.1	5317.9	5490.8	6006.3	6355.3	6862.7	7481.6	7076.0	6067.7
20°	5561.9	5591.0	5547.4	5511.8	5570.0	5925.5	6214.8	6723.8	7644.8	7438.0	6277.8
22.5°	6038.6	6072.6	5969.1	5867.3	5830.2	6058.0	6268.1	6667.2	7769.3	7769.3	6465.2
25°	6615.5	6662.4	6502.4	6321.4	6218.0	6337.6	6495.9	6794.9	7896.9	8066.6	6592.9
27.5°	7260.2	7261.9	7124.5	6920.9	6727.0	6741.5	6836.9	7082.5	8037.5	8386.5	6693.1
30°	7985.8	7990.6	7808.0	7564.0	7320.0	7253.8	7334.6	7520.4	8330.0	8788.9	6832.0
32.5°	8923.0	8945.6	8683.9	8325.1	8008.4	7884.0	7930.8	8126.4	8795.4	9293.1	7040.5
35°	10189.9	10214.1	9827.9	9354.5	8850.3	8662.9	8709.7	8906.9	9469.2	10008.9	7373.4
37.5°	11440.6	11472.9	11081.9	10640.7	9949.1	9638.9	9687.3	9874.8	10480.7	10997.8	7906.6
40°	12305.1	12348.7	12227.5	11930.2	11288.7	10881.5	10939.7	11007.5	11594.1	12180.7	8598.2
42.5°	12760.8	12822.2	12873.9	13025.8	12688.1	12347.1	12248.5	12253.4	12726.8	13386.1	9317.3
45°	12788.2	12848.0	13113.0	13699.6	13956.5	13885.4	13706.1	13584.9	13591.4	14189.2	9766.5
47.5°	11899.5	12011.0	12507.1	13656.0	14622.3	15212.1	15121.6	14834.0	13954.9	14242.6	9718.0
50°	9794.0	9903.9	10805.5	12458.6	14137.5	15742.1	16115.4	15729.2	13717.4	13578.4	9218.7
52.5°	7113.2	7124.5	7709.5	9640.5	12172.6	14764.5	15643.5	15606.4	13355.4	12773.7	8536.8
55°	3378.9	3338.5	3996.1	5440.7	8418.9	11941.5	13423.3	13843.4	12841.6	12192.0	8008.4
57.5°	984.1	1003.5	1296.0	2123.3	4211.0	7631.9	9192.9	9975.0	10540.5	10023.4	6211.5
60°	441.1	442.8	492.9	646.4	1402.6	3550.1	4752.4	5720.3	6302.0	5839.9	3081.5
62.5°	319.9	321.6	341.0	365.2	476.7	1202.2	1782.3	2375.4	2419.0	1583.6	780.5
65°	266.6	266.6	269.9	269.9	286.0	429.8	541.3	698.1	588.2	436.3	305.4
67.5°	214.9	216.5	219.8	219.8	214.9	214.9	232.7	255.3	273.1	337.7	281.2
70°	168.1	166.4	166.4	168.1	163.2	139.0	150.3	171.3	187.4	263.4	244.0
72.5°	130.9	132.5	130.9	124.4	113.1	82.4	88.9	111.5	119.6	164.8	164.8
75°	98.6	100.2	93.7	71.1	46.9	25.9	33.9	54.9	69.5	80.8	59.8
77.5°	12.9	12.9	9.7	9.7	8.1	9.7	9.7	12.9	19.4	19.4	14.5
80°	1.6	1.6	1.6	3.2	4.8	6.5	6.5	6.5	6.5	8.1	8.1
82.5°	1.6	1.6	1.6	1.6	4.8	4.8	6.5	6.5	6.5	6.5	6.5
85°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	6.5	6.5	6.5	6.5
87.5°	0.0	0.0	0.0	1.6	3.2	4.8	4.8	4.8	6.5	6.5	6.5
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°	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4	5143.4
2.5°	5151.5	5057.8	4944.7	4867.1	4757.2	4684.5	4581.1	4511.6	4451.8	4404.9	4430.8
5°	5153.1	5004.4	4773.4	4576.2	4361.3	4164.2	3952.5	3786.1	3635.8	3567.9	3605.1
7.5°	5185.4	4972.1	4618.2	4267.6	3855.5	3448.3	3067.0	2756.7	2603.2	2530.5	2553.1
10°	5248.5	4957.6	4445.3	3863.6	3194.6	2638.8	2268.7	2058.7	1973.0	1927.8	1935.9
12.5°	5306.6	4947.9	4220.7	3332.0	2520.8	2047.3	1855.1	1826.0	1843.7	1845.4	1843.7
15°	5385.8	4930.1	3942.8	2785.8	2016.6	1769.4	1774.3	1816.3	1858.3	1871.2	1868.0
17.5°	5469.8	4902.6	3584.1	2262.3	1711.2	1688.6	1745.2	1801.7	1843.7	1850.2	1851.8
20°	5557.1	4846.1	3175.2	1847.0	1569.0	1627.2	1690.2	1732.2	1762.9	1772.6	1775.9
22.5°	5597.5	4726.5	2703.4	1549.7	1473.7	1551.3	1598.1	1653.1	1662.8	1627.2	1633.7
25°	5576.5	4524.5	2242.9	1349.3	1378.4	1455.9	1525.4	1497.9	1457.5	1431.7	1439.8
27.5°	5510.2	4256.3	1792.0	1202.2	1276.6	1375.1	1383.2	1352.5	1346.0	1325.0	1331.5
30°	5439.1	3947.6	1441.4	1084.3	1173.1	1276.6	1252.3	1263.6	1265.3	1241.0	1249.1
32.5°	5395.5	3624.5	1147.3	1005.1	1106.9	1126.3	1174.8	1197.4	1199.0	1142.4	1152.1
35°	5410.0	3306.1	971.2	940.5	1045.5	1040.6	1108.5	1121.4	1027.7	950.2	958.2
37.5°	5528.0	3012.0	871.0	890.4	938.8	976.0	1027.7	942.1	921.1	885.5	890.4
40°	5747.8	2761.6	811.2	859.7	866.1	925.9	846.7	858.0	859.7	837.0	841.9
42.5°	6004.7	2553.1	775.6	841.9	825.7	835.4	756.2	778.9	803.1	793.4	795.0
45°	6134.0	2349.5	744.9	780.5	785.3	693.2	675.4	699.7	730.4	735.2	736.9
47.5°	6019.2	2155.6	712.6	691.6	723.9	631.8	610.8	618.9	654.4	673.8	677.1
50°	5668.6	1932.6	664.1	612.4	594.7	567.2	547.8	549.4	589.8	623.7	630.2
52.5°	5175.7	1699.9	585.0	518.7	478.3	499.3	504.2	494.5	531.6	565.6	572.0
55°	4697.4	1409.1	463.8	421.8	384.6	429.8	442.8	429.8	441.1	463.8	465.4
57.5°	3307.8	796.6	355.5	349.0	318.3	368.4	389.4	370.0	350.7	365.2	368.4
60°	1533.5	416.9	273.1	273.1	265.0	316.7	352.3	324.8	287.6	294.1	298.9
62.5°	479.9	263.4	200.4	189.1	216.5	269.9	298.9	271.5	227.8	227.8	234.3
65°	271.5	226.2	158.4	145.4	176.1	216.5	234.3	205.2	166.4	163.2	163.2
67.5°	252.1	214.9	140.6	118.0	124.4	139.0	145.4	126.0	114.7	113.1	114.7
70°	208.5	179.4	113.1	80.8	75.9	74.3	77.6	72.7	69.5	71.1	75.9
72.5°	129.3	108.3	71.1	48.5	42.0	40.4	40.4	40.4	38.8	38.8	38.8
75°	46.9	40.4	32.3	24.2	21.0	19.4	19.4	21.0	19.4	17.8	16.2
77.5°	14.5	12.9	12.9	12.9	11.3	9.7	8.1	8.1	6.5	4.8	4.8
80°	8.1	8.1	8.1	8.1	6.5	6.5	4.8	3.2	1.6	1.6	0.0
82.5°	8.1	8.1	8.1	6.5	6.5	6.5	4.8	3.2	1.6	0.0	0.0
85°	6.5	6.5	6.5	6.5	6.5	6.5	4.8	3.2	1.6	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	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)