

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: P637802

Luminaire Tested: GWS-SA4D-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637802
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18866.4 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

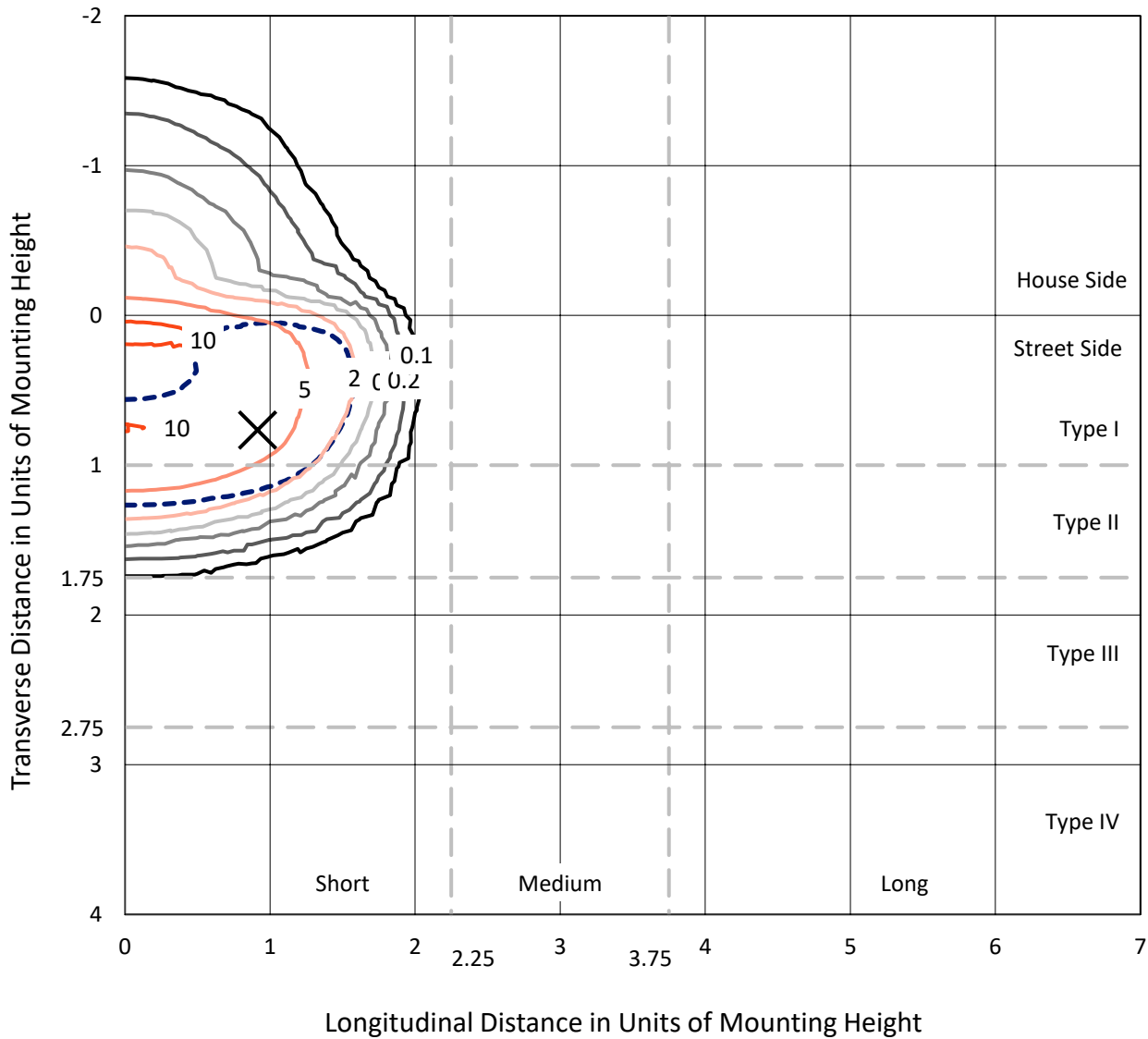
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

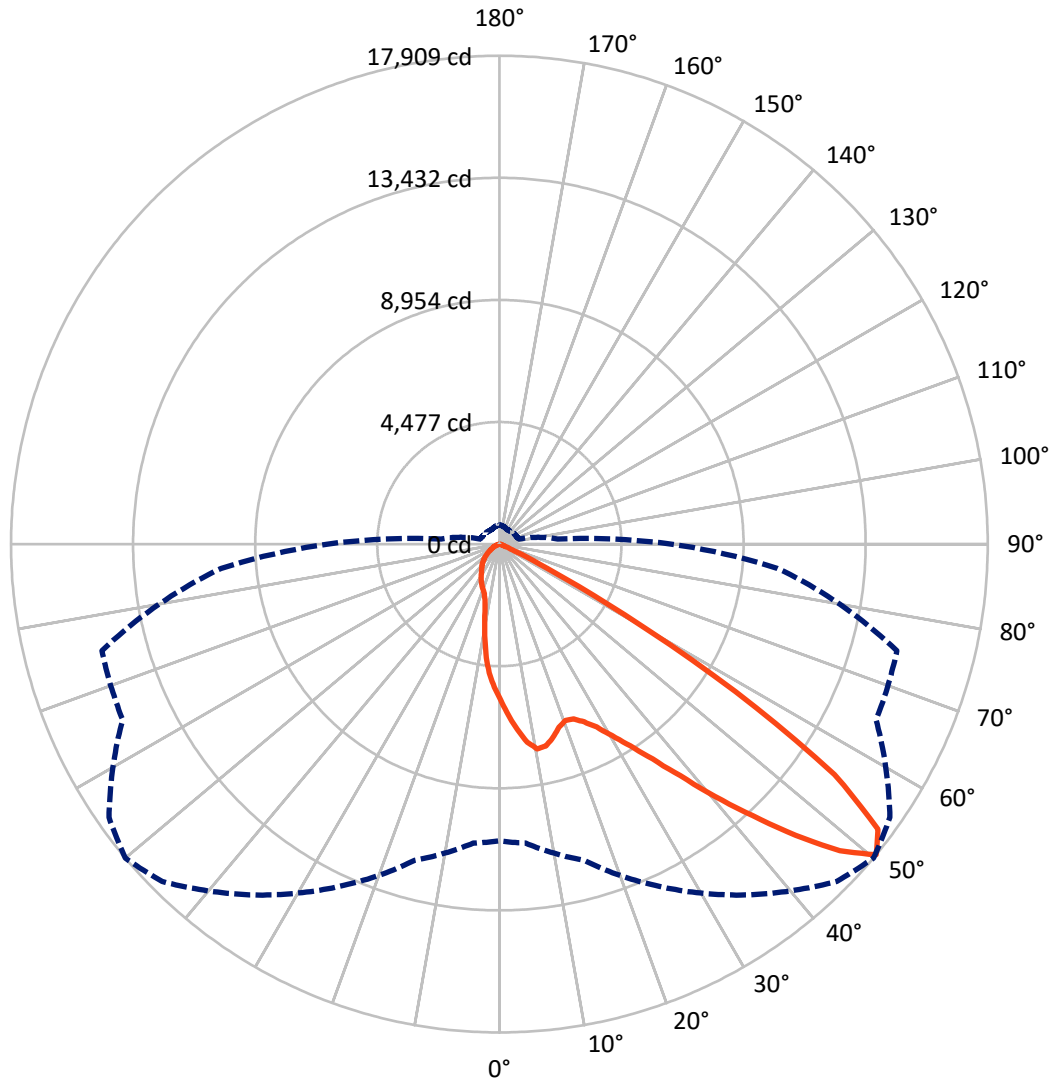
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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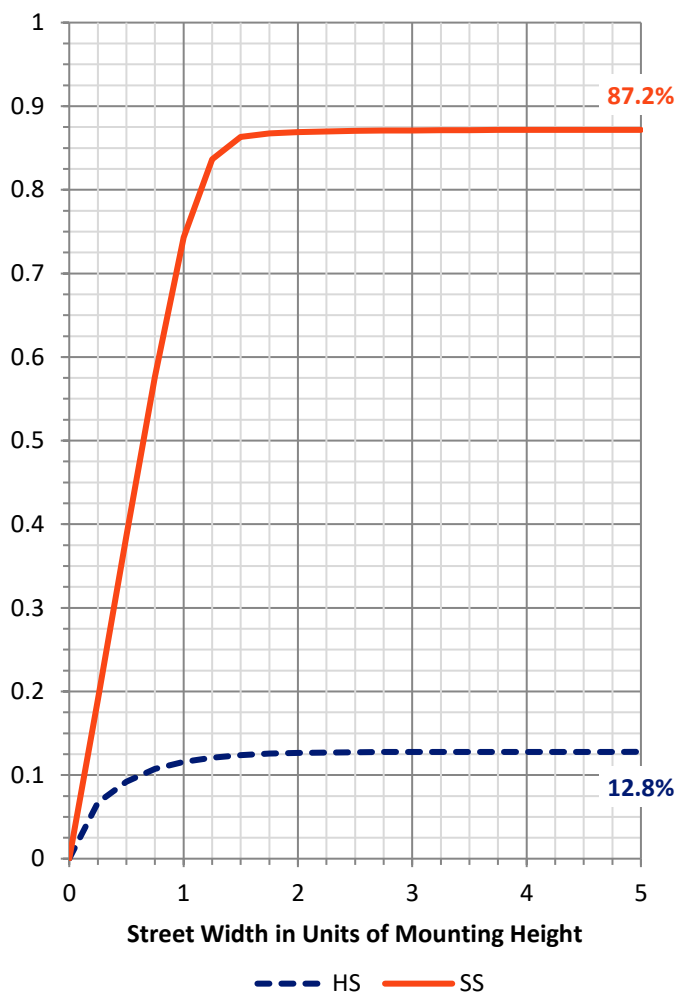
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.0	0.0	2424.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16442.4	0.0	16442.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	18866.4	0.0	18866.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.2	2.8
10°-20°	1368.0	7.3
20°-30°	2257.7	12.0
30°-40°	3725.7	19.7
40°-50°	5894.9	31.2
50°-60°	4463.2	23.7
60°-70°	558.6	3.0
70°-80°	63.2	0.3
80°-90°	4.8	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°	18866.4	100.0
0°-180°	18866.4	100.0

Coefficient of Utilization



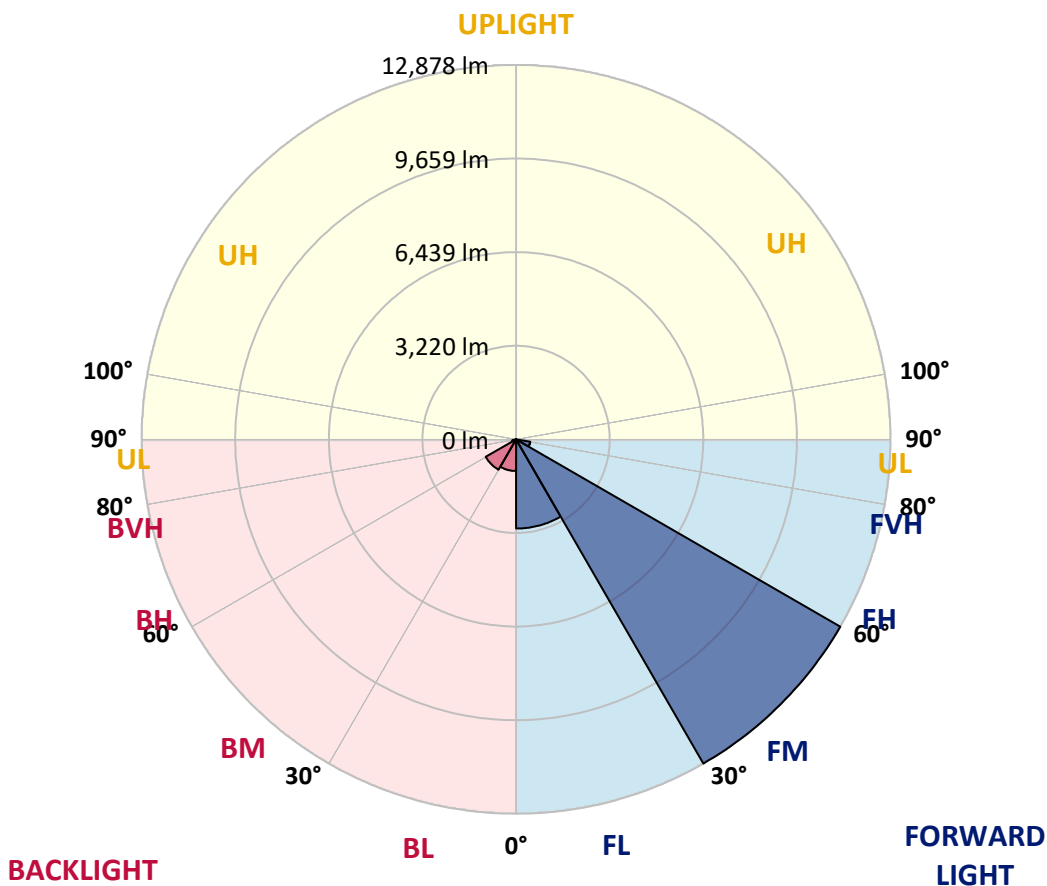
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3067.9	16.3			
FM (30°-60°)	12878.3	68.3			
FH (60°-80°)	493.9	2.6			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1088.0	5.8	B3/2500		
BM (30°-60°)	1205.5	6.4	B2/2500		
BH (60°-80°)	127.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8
2.5°	6513.1	6565.1	6550.8	6482.5	6408.9	6356.8	6276.0	6250.9	6067.7	5940.2	5805.6
5°	7299.6	7315.8	7297.8	7215.2	7085.9	6962.0	6829.1	6751.9	6444.8	6168.3	5886.4
7.5°	7488.1	7468.4	7502.5	7543.8	7525.9	7472.0	7331.9	7247.5	6881.2	6430.5	6003.1
10°	6899.1	6854.3	6981.8	7195.4	7419.9	7673.1	7637.2	7644.4	7306.8	6760.9	6155.7
12.5°	6118.0	6100.1	6195.2	6443.0	6883.0	7457.6	7595.9	7827.5	7696.4	7118.2	6329.9
15°	5775.0	5784.0	5841.5	5997.7	6313.7	7028.4	7360.6	7779.0	8044.8	7464.8	6522.0
17.5°	5827.1	5859.4	5857.6	5909.7	6101.8	6674.7	7062.6	7626.4	8314.2	7863.4	6742.9
20°	6180.9	6213.2	6164.7	6125.2	6189.8	6584.9	6906.3	7472.0	8495.5	8265.7	6976.4
22.5°	6710.6	6748.3	6633.4	6520.3	6478.9	6732.1	6965.6	7409.1	8633.8	8633.8	7184.7
25°	7351.7	7403.7	7226.0	7024.8	6909.9	7042.8	7218.8	7551.0	8775.7	8964.2	7326.5
27.5°	8068.2	8070.0	7917.3	7691.1	7475.6	7491.7	7597.7	7870.6	8931.9	9319.8	7437.9
30°	8874.4	8879.8	8676.9	8405.8	8134.6	8061.0	8150.8	8357.3	9256.9	9766.9	7592.3
32.5°	9916.0	9941.1	9650.2	9251.5	8899.6	8761.3	8813.4	9030.7	9774.1	10327.2	7823.9
35°	11323.8	11350.7	10921.6	10395.4	9835.1	9626.8	9678.9	9898.0	10522.9	11122.7	8193.9
37.5°	12713.7	12749.6	12315.0	11824.8	11056.2	10711.5	10765.3	10973.6	11647.0	12221.7	8786.4
40°	13674.4	13722.9	13588.2	13257.8	12544.9	12092.4	12157.0	12232.4	12884.3	13536.1	9555.0
42.5°	14180.8	14249.0	14306.5	14475.3	14100.0	13721.1	13611.5	13616.9	14143.1	14875.7	10354.1
45°	14211.3	14277.8	14572.2	15224.1	15509.6	15430.6	15231.3	15096.6	15103.8	15768.2	10853.3
47.5°	13223.7	13347.6	13898.9	15175.6	16249.4	16904.9	16804.3	16484.7	15507.8	15827.5	10799.4
50°	10883.8	11006.0	12008.0	13845.0	15710.7	17493.9	17908.7	17479.5	15243.8	15089.4	10244.6
52.5°	7904.7	7917.3	8567.4	10713.3	13527.1	16407.5	17384.3	17343.0	14841.6	14195.1	9486.8
55°	3754.8	3710.0	4440.8	6046.2	9355.7	13270.4	14917.0	15383.9	14270.6	13548.7	8899.6
57.5°	1093.6	1115.1	1440.2	2359.6	4679.6	8481.2	10215.8	11085.0	11713.5	11138.8	6902.7
60°	490.2	492.0	547.7	718.3	1558.7	3945.2	5281.2	6356.8	7003.3	6489.7	3424.4
62.5°	355.6	357.3	378.9	405.8	529.7	1336.0	1980.7	2639.7	2688.2	1759.8	867.3
65°	296.3	296.3	299.9	299.9	317.8	477.7	601.6	775.8	653.6	484.8	339.4
67.5°	238.8	240.6	244.2	244.2	238.8	238.8	258.6	283.7	303.5	375.3	312.5
70°	186.8	185.0	185.0	186.8	181.4	154.4	167.0	190.3	208.3	292.7	271.2
72.5°	145.5	147.2	145.5	138.3	125.7	91.6	98.8	123.9	132.9	183.2	183.2
75°	109.5	111.3	104.2	79.0	52.1	28.7	37.7	61.1	77.2	89.8	66.4
77.5°	14.4	14.4	10.8	10.8	9.0	10.8	10.8	14.4	21.5	21.5	16.2
80°	1.8	1.8	1.8	3.6	5.4	7.2	7.2	7.2	7.2	9.0	9.0
82.5°	1.8	1.8	1.8	1.8	5.4	5.4	7.2	7.2	7.2	7.2	7.2
85°	0.0	0.0	0.0	1.8	3.6	5.4	5.4	7.2	7.2	7.2	7.2
87.5°	0.0	0.0	0.0	1.8	3.6	5.4	5.4	5.4	7.2	7.2	7.2
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°	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8	5715.8
2.5°	5724.7	5620.6	5494.9	5408.7	5286.6	5205.8	5090.9	5013.6	4947.2	4895.1	4923.9
5°	5726.5	5561.3	5304.5	5085.5	4846.6	4627.6	4392.3	4207.4	4040.4	3964.9	4006.2
7.5°	5762.5	5525.4	5132.2	4742.5	4284.6	3832.1	3408.3	3063.5	2892.9	2812.1	2837.2
10°	5832.5	5509.3	4940.0	4293.6	3550.1	2932.4	2521.2	2287.7	2192.6	2142.3	2151.3
12.5°	5897.1	5498.5	4690.4	3702.8	2801.3	2275.2	2061.5	2029.2	2048.9	2050.7	2048.9
15°	5985.1	5478.7	4381.6	3095.8	2241.1	1966.3	1971.7	2018.4	2065.1	2079.4	2075.8
17.5°	6078.5	5448.2	3982.9	2514.0	1901.7	1876.5	1939.4	2002.2	2048.9	2056.1	2057.9
20°	6175.5	5385.4	3528.6	2052.5	1743.6	1808.3	1878.3	1925.0	1959.1	1969.9	1973.5
22.5°	6220.4	5252.5	3004.2	1722.1	1637.7	1723.9	1776.0	1837.0	1847.8	1808.3	1815.5
25°	6197.0	5028.0	2492.5	1499.4	1531.7	1617.9	1695.2	1664.6	1619.7	1591.0	1600.0
27.5°	6123.4	4729.9	1991.5	1336.0	1418.6	1528.2	1537.1	1503.0	1495.8	1472.5	1479.7
30°	6044.4	4386.9	1601.8	1204.9	1303.7	1418.6	1391.7	1404.3	1406.0	1379.1	1388.1
32.5°	5995.9	4027.8	1275.0	1116.9	1230.1	1251.6	1305.5	1330.6	1332.4	1269.6	1280.3
35°	6012.1	3674.0	1079.2	1045.1	1161.8	1156.4	1231.9	1246.2	1142.1	1055.9	1064.9
37.5°	6143.1	3347.2	967.9	989.4	1043.3	1084.6	1142.1	1046.9	1023.6	984.1	989.4
40°	6387.4	3068.9	901.5	955.3	962.5	1028.9	941.0	953.5	955.3	930.2	935.6
42.5°	6672.9	2837.2	861.9	935.6	917.6	928.4	840.4	865.5	892.5	881.7	883.5
45°	6816.5	2611.0	827.8	867.3	872.7	770.4	750.6	777.5	811.7	817.1	818.8
47.5°	6689.0	2395.5	791.9	768.6	804.5	702.1	678.8	687.8	727.3	748.8	752.4
50°	6299.4	2147.7	738.0	680.6	660.8	630.3	608.7	610.5	655.4	693.1	700.3
52.5°	5751.7	1889.1	650.0	576.4	531.5	554.9	560.3	549.5	590.8	628.5	635.7
55°	5220.2	1565.9	515.4	468.7	427.4	477.7	492.0	477.7	490.2	515.4	517.2
57.5°	3675.8	885.3	395.1	387.9	353.8	409.4	432.8	411.2	389.7	405.8	409.4
60°	1704.1	463.3	303.5	303.5	294.5	352.0	391.5	360.9	319.6	326.8	332.2
62.5°	533.3	292.7	222.7	210.1	240.6	299.9	332.2	301.7	253.2	253.2	260.4
65°	301.7	251.4	176.0	161.6	195.7	240.6	260.4	228.1	185.0	181.4	181.4
67.5°	280.1	238.8	156.2	131.1	138.3	154.4	161.6	140.1	127.5	125.7	127.5
70°	231.6	199.3	125.7	89.8	84.4	82.6	86.2	80.8	77.2	79.0	84.4
72.5°	143.7	120.3	79.0	53.9	46.7	44.9	44.9	44.9	43.1	43.1	43.1
75°	52.1	44.9	35.9	26.9	23.3	21.5	21.5	23.3	21.5	19.8	18.0
77.5°	16.2	14.4	14.4	14.4	12.6	10.8	9.0	9.0	7.2	5.4	5.4
80°	9.0	9.0	9.0	9.0	7.2	7.2	5.4	3.6	1.8	1.8	0.0
82.5°	9.0	9.0	9.0	7.2	7.2	7.2	5.4	3.6	1.8	0.0	0.0
85°	7.2	7.2	7.2	7.2	7.2	7.2	5.4	3.6	1.8	0.0	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	5.4	3.6	1.8	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)