

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: P637638

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
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-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20230.6 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

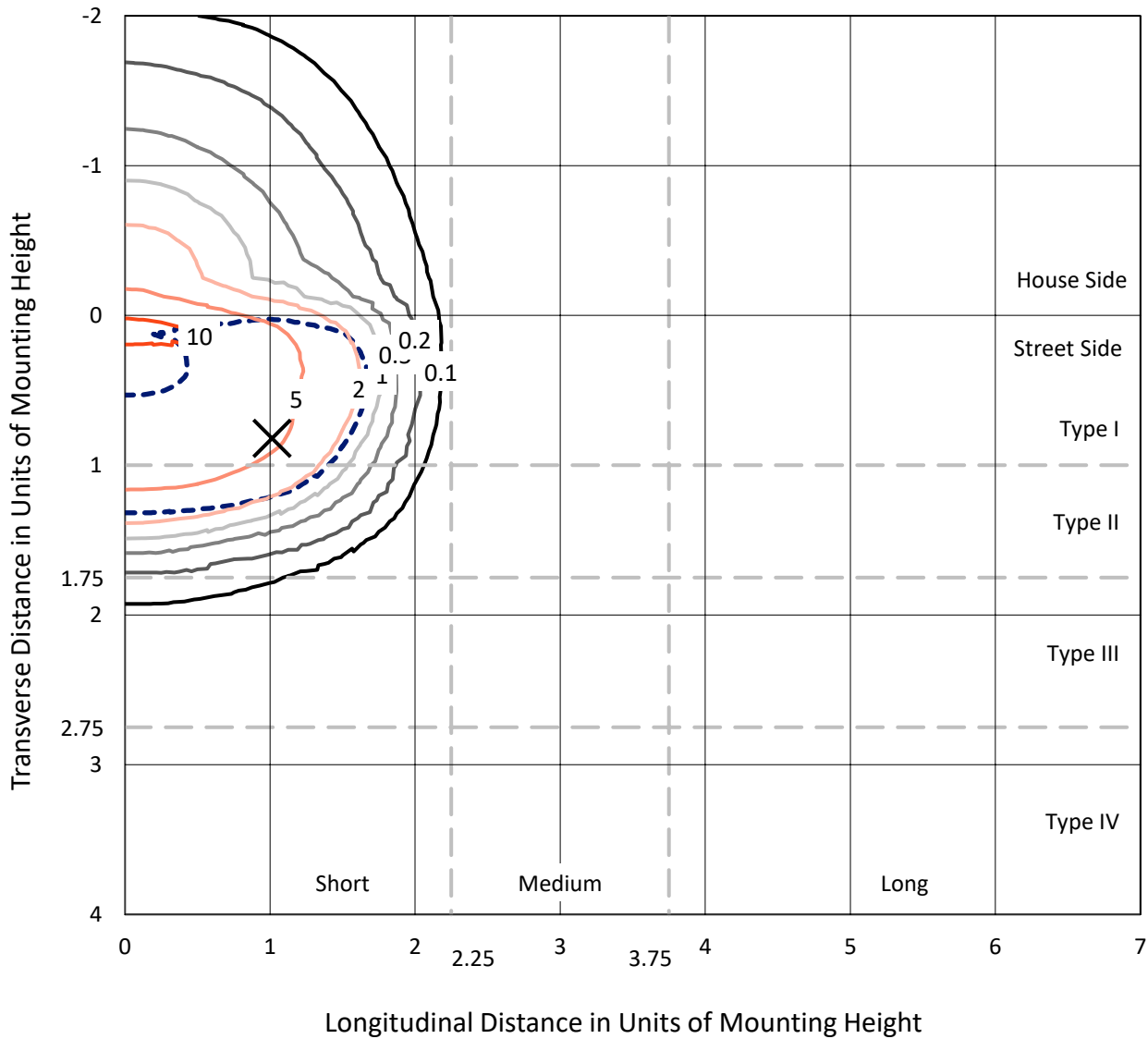
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

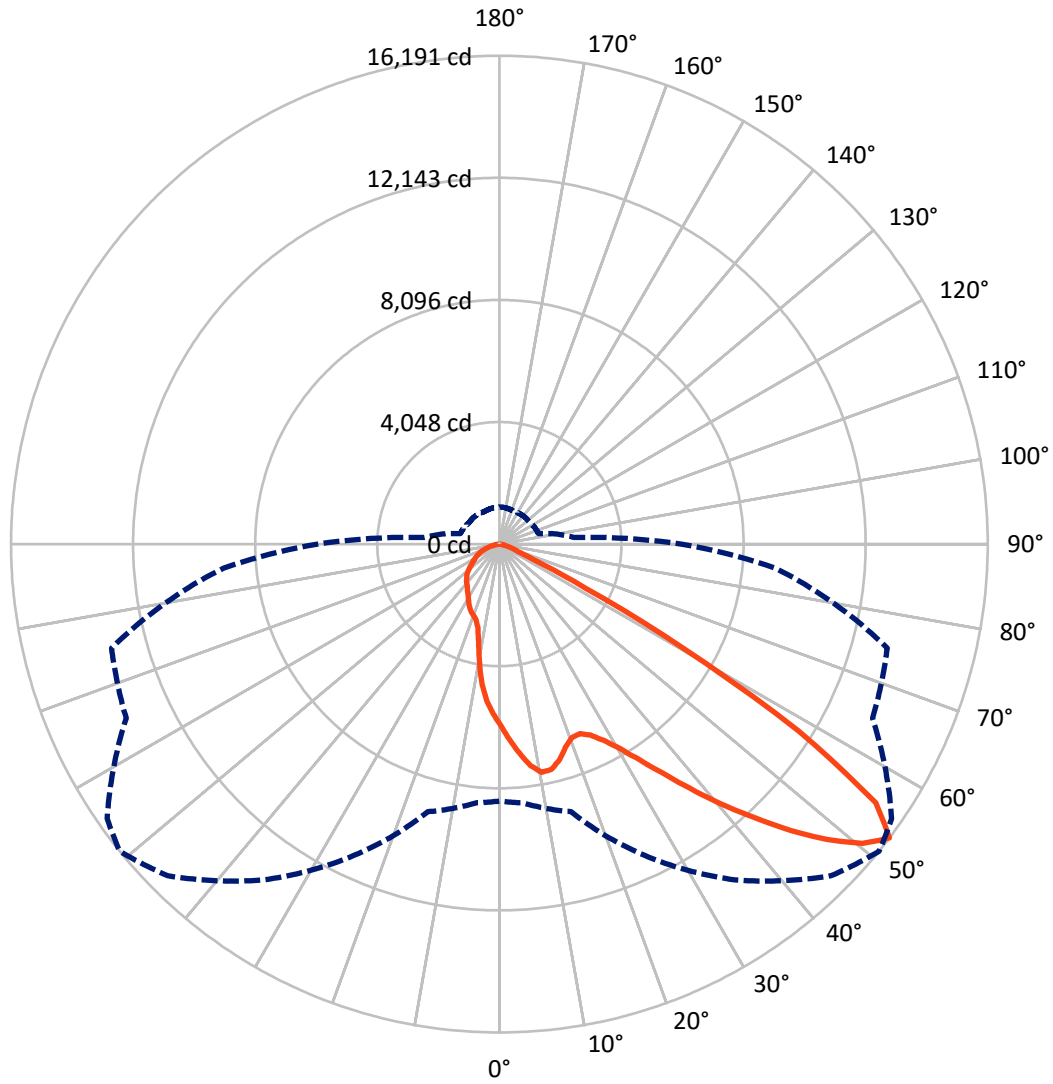
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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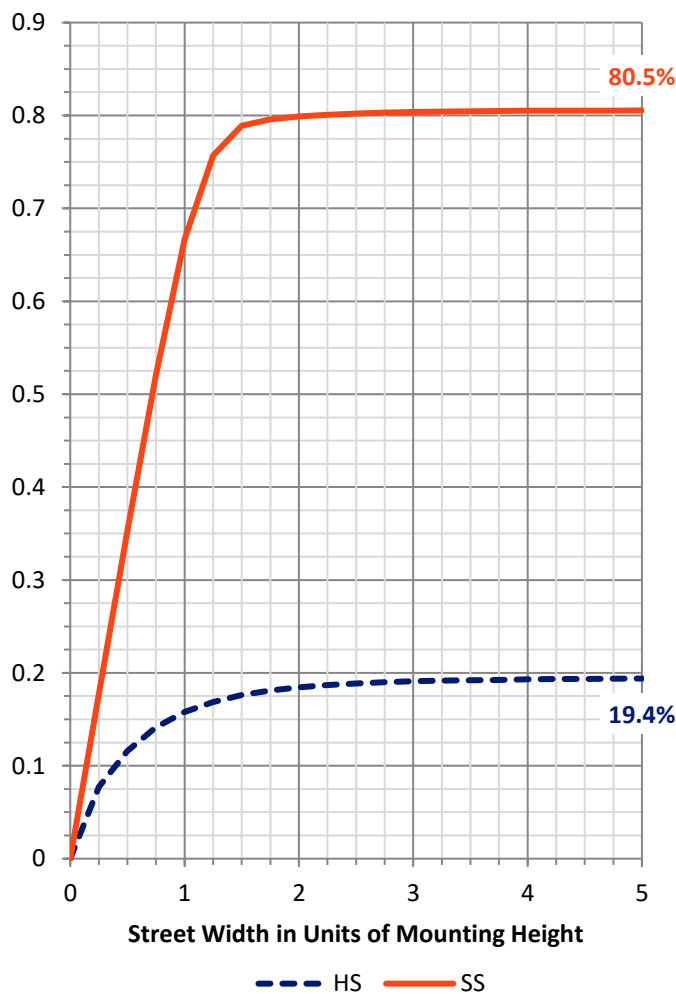
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3941.8	0.0	3941.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16288.8	0.0	16288.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	20230.6	0.0	20230.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	2.8
10°-20°	1460.5	7.2
20°-30°	2374.7	11.7
30°-40°	3763.4	18.6
40°-50°	5676.0	28.1
50°-60°	4910.2	24.3
60°-70°	1113.2	5.5
70°-80°	328.2	1.6
80°-90°	42.3	0.2
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°	20230.6	100.0
0°-180°	20230.6	100.0

Coefficient of Utilization



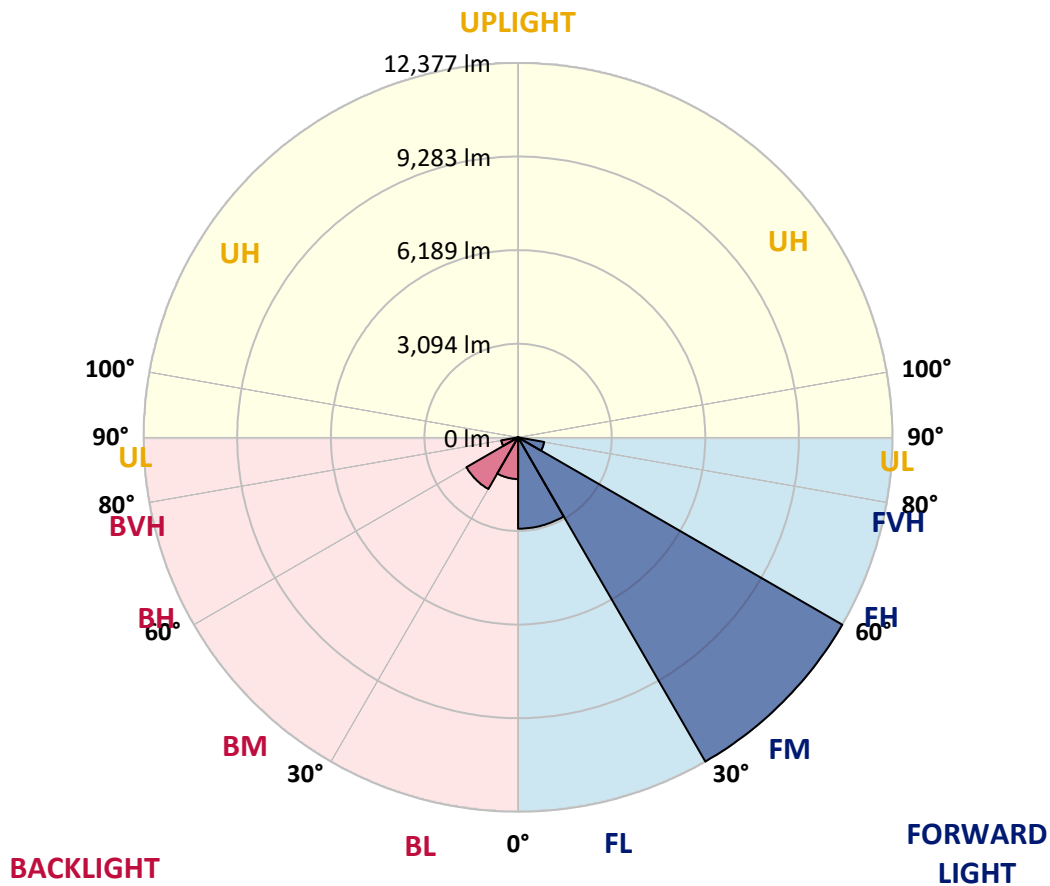
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3019.5	14.9			
FM (30°-60°)	12377.4	61.2			
FH (60°-80°)	876.1	4.3			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1377.9	6.8	B3/2500		
BM (30°-60°)	1972.2	9.7	B2/2500		
BH (60°-80°)	565.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7
2.5°	6712.7	6751.0	6691.9	6669.5	6632.7	6568.8	6495.3	6474.5	6316.2	6212.3	6095.6
5°	7387.3	7408.1	7360.1	7312.2	7221.0	7107.5	6965.3	6934.9	6647.1	6408.9	6161.1
7.5°	7537.6	7529.6	7571.1	7598.3	7587.1	7542.4	7416.1	7356.9	7013.2	6635.9	6269.8
10°	6942.9	6898.1	7051.6	7233.8	7452.8	7705.4	7691.0	7686.2	7387.3	6941.3	6408.9
12.5°	6154.7	6132.4	6257.1	6485.7	6899.7	7459.2	7668.7	7831.7	7724.6	7232.2	6564.0
15°	5703.9	5695.9	5780.7	5945.3	6274.6	6981.2	7428.9	7751.8	8014.0	7544.0	6728.7
17.5°	5622.4	5627.2	5656.0	5750.3	5986.9	6568.8	7086.8	7537.6	8239.4	7886.1	6934.9
20°	5860.6	5892.6	5843.0	5857.4	5985.3	6420.1	6853.4	7321.8	8383.2	8229.8	7157.1
22.5°	6389.7	6378.6	6269.8	6205.9	6207.5	6511.2	6827.8	7221.0	8477.6	8563.9	7358.5
25°	6989.2	6976.4	6847.0	6704.7	6615.2	6759.0	7011.6	7328.1	8562.3	8869.2	7520.0
27.5°	7697.4	7657.5	7513.6	7331.3	7133.1	7195.5	7366.5	7617.5	8693.4	9169.8	7627.1
30°	8383.2	8429.6	8223.4	8007.6	7798.1	7759.8	7858.9	8085.9	8960.4	9521.5	7755.0
32.5°	9292.9	9276.9	9048.3	8766.9	8468.0	8439.2	8517.5	8725.4	9439.9	10007.5	7950.0
35°	10394.3	10397.5	10073.0	9692.5	9267.3	9190.6	9321.6	9523.1	10154.5	10666.1	8258.6
37.5°	11539.0	11534.2	11251.2	10819.6	10239.3	10130.6	10280.8	10431.1	11048.2	11562.9	8738.1
40°	12341.5	12373.4	12240.8	12013.7	11463.8	11198.4	11331.1	11435.0	12020.1	12618.0	9369.6
42.5°	12797.1	12845.0	12873.8	13009.7	12720.3	12437.4	12389.4	12443.8	12888.2	13598.0	9962.7
45°	12894.6	12958.5	13168.0	13671.5	13783.4	13703.5	13546.8	13415.8	13535.6	14293.4	10351.2
47.5°	12464.6	12576.5	13024.1	13904.9	14558.8	14809.8	14635.5	14435.7	13909.7	14472.4	10311.2
50°	10760.4	10891.5	11900.2	13428.5	14669.1	15583.5	15599.5	15303.7	13865.0	13956.1	9809.2
52.5°	8519.1	8608.7	9185.8	11383.9	13586.8	15551.5	16191.0	15874.5	13649.2	13310.2	9181.0
55°	5091.7	5235.5	5774.3	7510.4	10584.6	13783.4	15145.5	15298.9	13543.6	12768.3	8752.5
57.5°	1718.5	1788.9	2303.6	3317.2	6237.9	10092.2	11702.0	12325.5	12295.1	11940.2	7916.4
60°	818.5	834.5	938.4	1258.1	2497.1	5273.9	6926.9	7646.3	8301.7	8367.3	4925.4
62.5°	623.5	633.1	685.8	754.6	1003.9	2222.1	3174.9	3724.8	3979.0	3414.7	1793.7
65°	521.2	529.1	569.1	612.3	682.6	962.4	1218.2	1405.2	1266.1	986.4	855.3
67.5°	434.8	441.2	471.6	518.0	565.9	644.3	676.2	695.4	729.0	818.5	786.5
70°	340.5	346.9	378.9	418.8	465.2	484.4	514.8	533.9	601.1	716.2	713.0
72.5°	262.2	270.2	287.8	313.3	351.7	370.9	404.5	426.8	465.2	557.9	596.3
75°	191.8	196.6	212.6	220.6	225.4	220.6	254.2	279.8	330.9	366.1	375.7
77.5°	78.3	87.9	84.7	84.7	100.7	121.5	139.1	155.1	190.2	211.0	212.6
80°	32.0	35.2	41.6	46.4	56.0	71.9	83.1	89.5	105.5	118.3	127.9
82.5°	19.2	20.8	24.0	25.6	32.0	41.6	48.0	52.8	65.5	78.3	83.1
85°	9.6	9.6	11.2	12.8	16.0	19.2	22.4	25.6	33.6	41.6	46.4
87.5°	1.6	1.6	1.6	3.2	4.8	6.4	8.0	9.6	11.2	12.8	16.0
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°	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7	6023.7
2.5°	6026.9	5940.5	5839.8	5759.9	5667.2	5598.4	5500.9	5440.2	5382.6	5334.6	5299.5
5°	6033.3	5887.8	5678.4	5492.9	5301.1	5118.8	4931.8	4779.9	4644.0	4530.5	4520.9
7.5°	6070.0	5860.6	5532.9	5208.4	4834.3	4473.0	4111.7	3817.5	3593.7	3477.0	3453.1
10°	6132.4	5857.4	5384.2	4866.2	4228.4	3646.5	3218.1	2994.2	2864.8	2818.4	2802.4
12.5°	6197.9	5849.4	5194.0	4383.5	3497.8	2987.8	2752.9	2725.7	2749.7	2752.9	2751.3
15°	6277.8	5844.6	4954.2	3817.5	2963.9	2682.5	2698.5	2756.0	2812.0	2824.8	2824.8
17.5°	6375.4	5833.4	4628.1	3264.4	2629.8	2623.4	2708.1	2784.8	2837.6	2847.2	2847.2
20°	6477.7	5804.6	4226.8	2813.6	2493.9	2586.6	2677.7	2736.9	2773.6	2786.4	2788.0
22.5°	6548.0	5727.9	3764.8	2479.5	2409.1	2516.3	2581.8	2642.5	2642.5	2610.6	2601.0
25°	6562.4	5563.3	3264.4	2250.9	2308.4	2407.5	2474.7	2439.5	2374.0	2348.4	2346.8
27.5°	6509.6	5323.5	2770.4	2087.8	2186.9	2286.0	2274.9	2223.7	2194.9	2169.3	2178.9
30°	6445.7	5035.7	2342.0	1953.5	2046.3	2143.8	2105.4	2087.8	2067.0	2038.3	2044.7
32.5°	6402.5	4714.4	2012.7	1849.6	1951.9	1967.9	1995.1	1993.5	1974.3	1920.0	1916.8
35°	6415.3	4389.9	1792.1	1764.9	1873.6	1867.2	1918.4	1908.8	1776.1	1700.9	1696.2
37.5°	6517.6	4078.1	1662.6	1697.8	1748.9	1788.9	1833.6	1718.5	1672.2	1624.2	1627.4
40°	6712.7	3788.8	1592.2	1661.0	1673.8	1732.9	1629.0	1627.4	1606.6	1563.5	1561.9
42.5°	6933.3	3544.2	1544.3	1643.4	1625.8	1637.0	1526.7	1539.5	1537.9	1510.7	1502.7
45°	7067.6	3318.8	1505.9	1577.9	1582.6	1470.7	1437.2	1451.6	1459.6	1445.2	1443.6
47.5°	6928.5	3059.8	1465.9	1477.1	1518.7	1395.6	1354.0	1355.6	1370.0	1371.6	1365.2
50°	6538.4	2770.4	1418.0	1390.8	1363.6	1317.3	1278.9	1270.9	1285.3	1299.7	1304.5
52.5°	6034.8	2493.9	1338.1	1296.5	1232.5	1232.5	1215.0	1189.4	1208.6	1227.8	1234.1
55°	5665.6	2289.2	1224.6	1178.2	1107.9	1131.8	1128.6	1106.3	1131.8	1146.2	1151.0
57.5°	4909.4	1840.0	1077.5	1063.1	1003.9	1032.7	1039.1	1010.3	997.5	1000.7	1005.5
60°	2914.3	1187.8	972.0	970.4	917.6	951.2	970.4	941.6	903.2	908.0	914.4
62.5°	1307.7	908.0	839.3	832.9	831.3	874.5	895.2	868.1	813.7	818.5	824.9
65°	823.3	784.9	729.0	729.0	754.6	791.3	807.3	784.9	722.6	714.6	721.0
67.5°	764.1	730.6	673.0	661.8	674.6	705.0	706.6	663.4	626.7	620.3	620.3
70°	685.8	660.2	604.3	581.9	577.1	575.5	570.7	559.5	535.5	529.1	532.3
72.5°	567.5	549.9	514.8	490.8	478.0	476.4	457.2	447.6	426.8	423.6	422.0
75°	375.7	380.5	380.5	377.3	366.1	361.3	340.5	330.9	306.9	297.3	295.7
77.5°	222.2	227.0	233.4	235.0	233.4	233.4	214.2	203.0	179.0	166.3	163.1
80°	135.9	139.1	142.3	147.1	140.7	135.9	118.3	107.1	95.9	87.9	86.3
82.5°	87.9	91.1	92.7	95.9	92.7	86.3	71.9	65.5	57.6	51.2	49.6
85°	49.6	51.2	54.4	54.4	49.6	44.8	36.8	32.0	27.2	24.0	24.0
87.5°	17.6	17.6	17.6	19.2	16.0	14.4	9.6	6.4	4.8	4.8	4.8
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)