

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: P638529

Luminaire Tested: GWS-SA4F-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20988.4 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

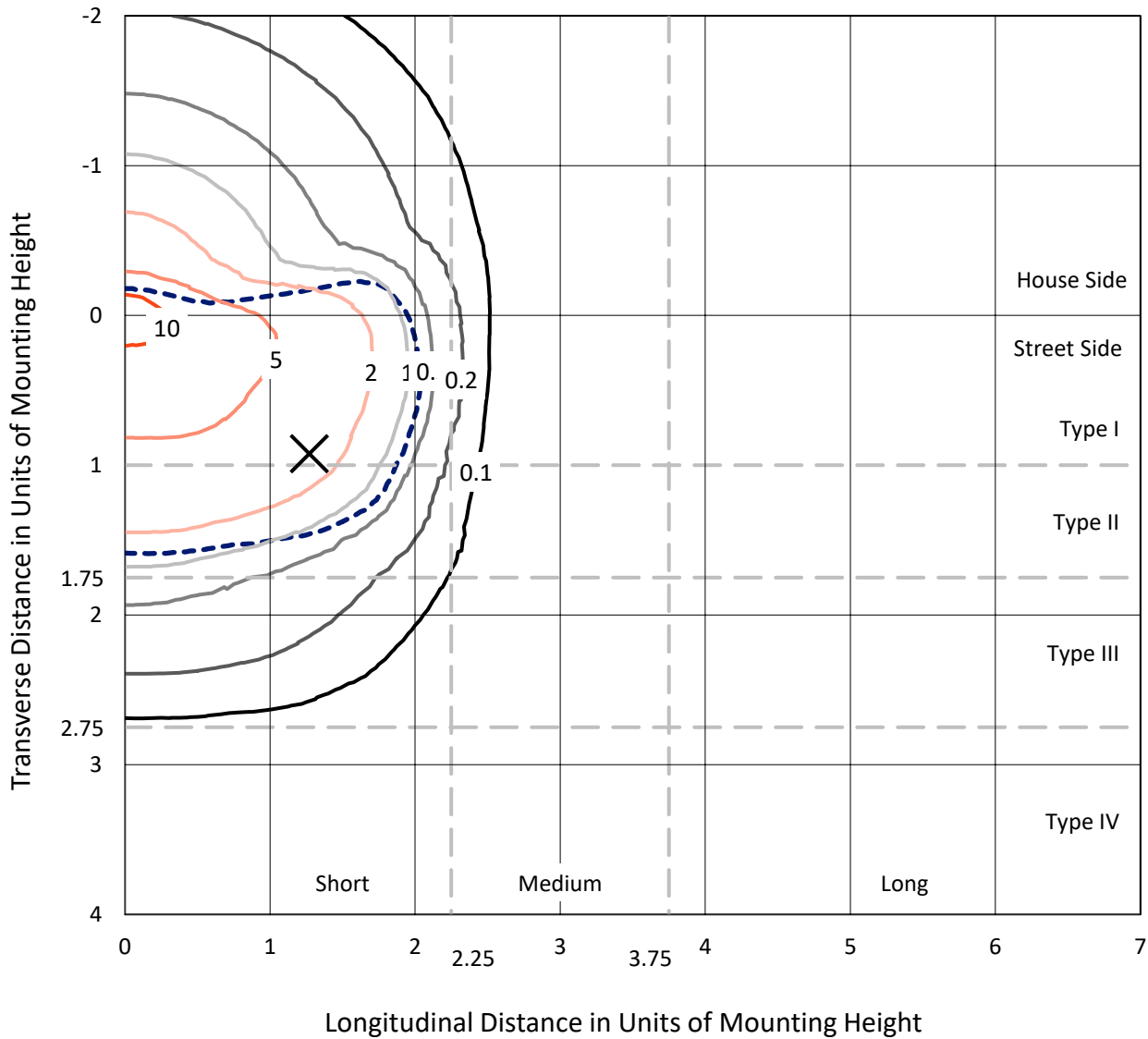
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

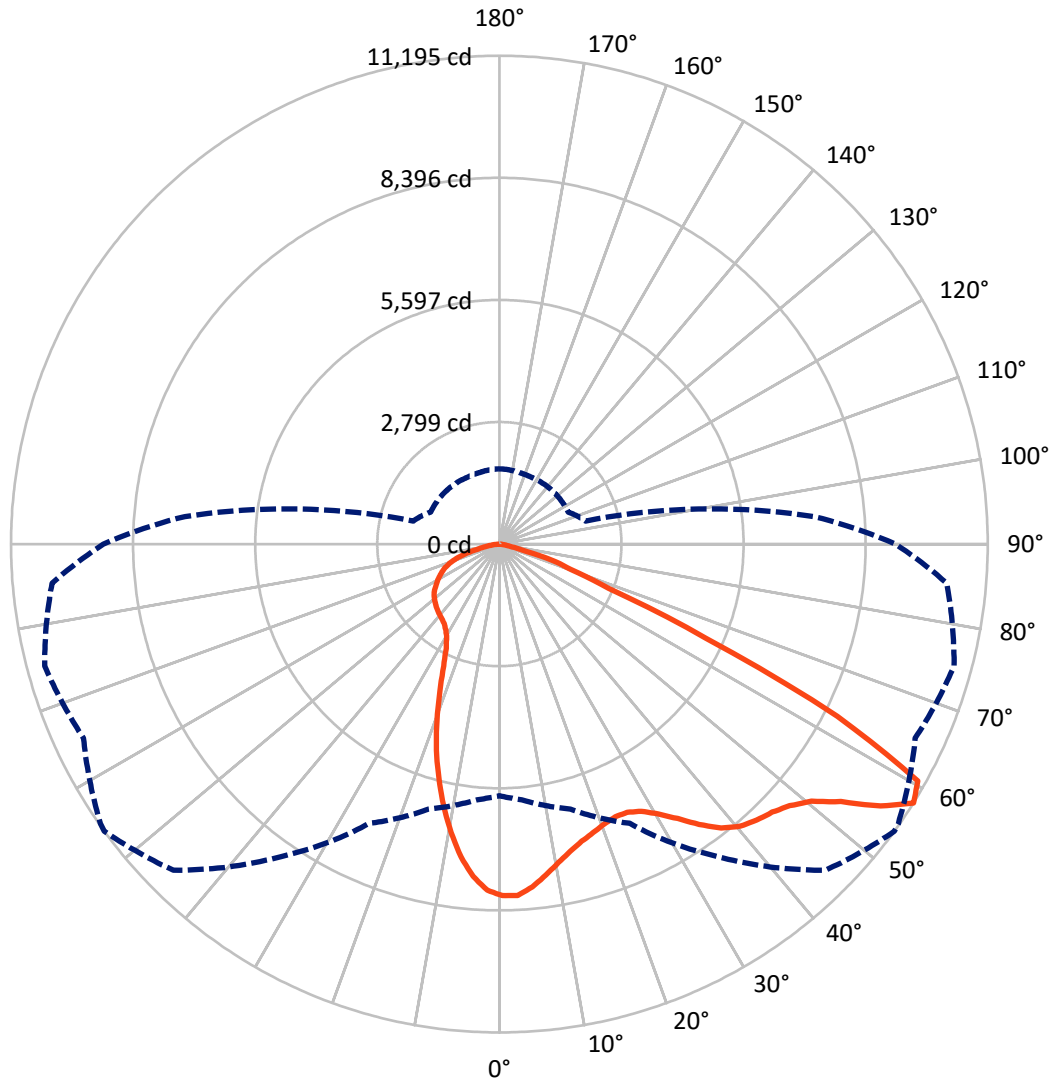
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6101.6	0.0	6101.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	14886.8	0.0	14886.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	20988.4	0.0	20988.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.3	3.4
10°-20°	1690.1	8.1
20°-30°	2338.8	11.1
30°-40°	3249.7	15.5
40°-50°	4291.9	20.4
50°-60°	5100.3	24.3
60°-70°	2825.7	13.5
70°-80°	703.6	3.4
80°-90°	80.0	0.4
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°	20988.4	100.0
0°-180°	20988.4	100.0

Coefficient of Utilization



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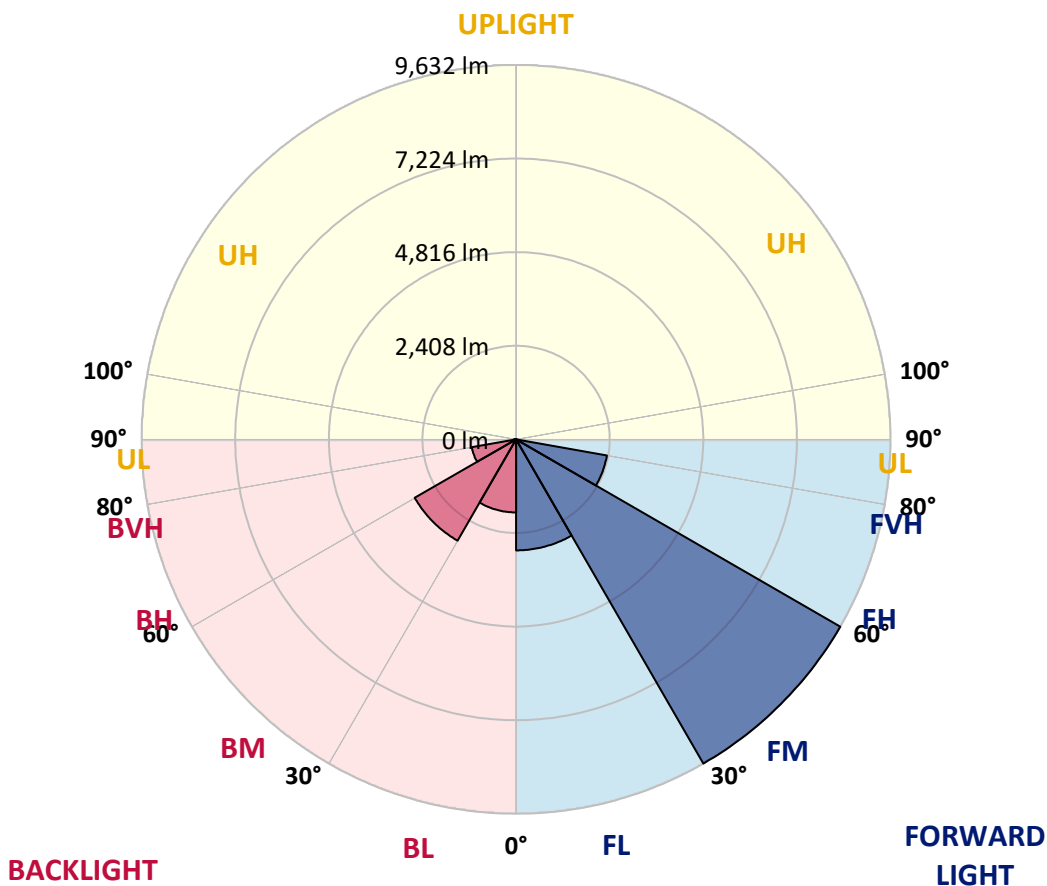
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2856.9	13.6			
FM (30°-60°)	9631.9	45.9			
FH (60°-80°)	2373.0	11.3			G2/5000
FVH (80°-90°)	25.0	0.1			G1/100
BL (0°-30°)	1880.3	9.0	B3/2500		
BM (30°-60°)	3010.1	14.3	B3/5000		
BH (60°-80°)	1156.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	55.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9
2.5°	7907.0	7923.2	7934.0	7971.7	8004.0	8032.8	8063.3	8063.3	8061.5	8056.1	8045.3
5°	7594.4	7612.4	7637.5	7689.6	7759.7	7810.0	7892.6	7899.8	7935.8	7950.1	7942.9
7.5°	7231.5	7236.9	7269.2	7337.5	7448.9	7538.7	7657.3	7671.6	7757.9	7808.2	7799.2
10°	6834.4	6816.4	6873.9	6974.6	7120.1	7271.0	7423.7	7436.3	7574.6	7669.8	7662.7
12.5°	6471.5	6473.3	6530.8	6653.0	6834.4	7021.3	7226.1	7254.8	7425.5	7547.7	7535.1
15°	6167.9	6175.0	6245.1	6383.5	6590.1	6812.9	7068.0	7094.9	7310.5	7472.2	7436.3
17.5°	5925.3	5932.5	5993.6	6151.7	6372.7	6642.2	6953.0	6979.9	7247.6	7439.9	7366.2
20°	5758.2	5754.6	5813.9	5964.8	6193.0	6485.9	6852.4	6891.9	7227.9	7452.5	7319.5
22.5°	5690.0	5688.2	5731.3	5855.2	6069.0	6365.5	6791.3	6845.2	7249.4	7508.2	7290.8
25°	5724.1	5716.9	5754.6	5846.3	6016.9	6318.8	6809.3	6866.8	7341.1	7623.1	7296.1
27.5°	5830.1	5821.1	5853.4	5936.1	6065.5	6367.3	6935.0	7001.5	7535.1	7833.3	7368.0
30°	5991.8	5986.4	6018.7	6097.8	6211.0	6529.0	7175.8	7251.2	7835.1	8160.3	7524.3
32.5°	6180.4	6171.5	6228.9	6320.6	6451.7	6823.6	7499.2	7598.0	8190.9	8580.7	7786.6
35°	6392.4	6385.3	6464.3	6597.3	6785.9	7233.3	7890.8	7998.6	8553.8	9056.9	8135.2
37.5°	6599.1	6599.1	6751.8	6949.4	7186.6	7678.8	8259.1	8327.4	8805.3	9479.1	8508.9
40°	6782.3	6793.1	7023.1	7319.5	7621.3	8081.3	8501.7	8559.2	8916.7	9770.1	8834.1
42.5°	6985.3	6994.3	7262.0	7650.1	8009.4	8406.5	8649.0	8677.8	8938.3	9915.6	9064.0
45°	7147.0	7159.6	7492.0	7907.0	8347.2	8650.8	8765.8	8791.0	8968.8	9994.7	9231.1
47.5°	7231.5	7249.4	7630.3	8113.6	8575.4	8870.0	8958.0	8968.8	9094.6	10133.0	9432.4
50°	7217.1	7253.0	7682.4	8216.0	8744.2	9091.0	9267.1	9285.0	9351.5	10336.1	9667.7
52.5°	7344.7	7360.8	7793.8	8338.2	8985.0	9498.8	9804.3	9829.4	9798.9	10488.8	9807.8
55°	7132.7	7209.9	7655.5	8320.2	9351.5	10129.4	10600.2	10587.6	10204.9	10659.5	10041.4
57.5°	5769.0	5882.2	6290.0	7062.6	8747.8	10571.4	11194.9	11164.3	10519.3	10790.6	10294.7
60°	3993.9	4011.9	4380.2	4928.2	6751.8	9338.9	11020.6	11087.1	10576.8	10625.3	9825.8
62.5°	3194.4	3189.0	3223.2	3237.5	4294.0	6564.9	8699.3	8941.9	8787.4	8278.9	6963.8
65°	2727.3	2747.1	2847.7	2795.6	2802.8	3697.5	5197.7	5231.8	5124.0	4940.8	3683.1
67.5°	2134.4	2168.5	2346.4	2549.4	2484.8	2380.5	2696.8	2680.6	2112.8	1634.9	1351.1
70°	1336.7	1358.3	1548.7	2001.5	2163.2	1954.7	1733.8	1726.6	1131.9	930.7	1020.5
72.5°	779.7	783.3	837.2	1115.7	1435.5	1336.7	1275.6	1228.9	727.6	742.0	813.9
75°	429.4	429.4	427.6	481.5	565.9	501.3	485.1	472.5	486.9	551.6	605.5
77.5°	89.8	91.6	97.0	127.6	165.3	201.2	253.3	255.1	318.0	368.3	411.4
80°	41.3	43.1	53.9	68.3	88.0	116.8	154.5	156.3	192.2	231.8	260.5
82.5°	21.6	23.4	28.7	35.9	46.7	61.1	86.2	86.2	115.0	136.5	154.5
85°	7.2	7.2	10.8	14.4	19.8	25.2	34.1	34.1	50.3	66.5	77.3
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	7.2	9.0	10.8	18.0
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°	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9	8057.9
2.5°	8022.0	7966.3	7968.1	7978.9	7944.7	7892.6	7858.5	7815.4	7788.4	7783.0	7802.8
5°	7907.0	7842.3	7797.4	7750.7	7653.7	7538.7	7448.9	7375.2	7326.7	7308.7	7287.2
7.5°	7748.9	7664.5	7551.3	7420.1	7244.0	7039.2	6895.5	6760.8	6667.3	6640.4	6627.8
10°	7590.8	7468.6	7267.4	7023.1	6730.2	6453.5	6193.0	5993.6	5835.5	5745.6	5774.4
12.5°	7427.3	7276.4	6962.0	6586.5	6178.6	5761.8	5420.5	5089.9	4834.8	4707.2	4669.5
15°	7283.6	7078.8	6640.4	6131.9	5589.3	5064.7	4570.6	4074.8	3751.4	3575.3	3526.8
17.5°	7161.4	6895.5	6300.8	5668.4	5019.8	4272.4	3665.1	3205.2	2984.2	2887.2	2880.0
20°	7041.0	6715.8	5964.8	5168.9	4362.2	3525.0	2982.4	2766.8	2687.8	2653.6	2651.8
22.5°	6933.2	6527.2	5610.9	4669.5	3708.3	2962.7	2664.4	2571.0	2549.4	2549.4	2545.8
25°	6841.6	6338.5	5248.0	4139.5	3117.2	2637.5	2499.1	2459.6	2468.6	2484.8	2486.5
27.5°	6803.9	6191.2	4897.6	3595.1	2709.3	2448.8	2385.9	2380.5	2405.7	2430.9	2434.4
30°	6843.4	6090.6	4538.3	3074.0	2465.0	2333.8	2305.1	2315.9	2346.4	2371.6	2371.6
32.5°	6965.6	6040.3	4171.8	2693.2	2323.1	2253.0	2244.0	2254.8	2278.1	2292.5	2294.3
35°	7172.2	6060.1	3792.7	2436.2	2231.4	2193.7	2191.9	2199.1	2208.1	2217.1	2218.8
37.5°	7432.7	6148.1	3386.7	2287.1	2172.1	2150.6	2147.0	2145.2	2147.0	2147.0	2148.8
40°	7687.8	6281.0	3023.7	2199.1	2130.8	2112.8	2103.9	2091.3	2089.5	2085.9	2084.1
42.5°	7876.5	6383.5	2734.5	2136.2	2093.1	2071.5	2060.7	2041.0	2039.2	2037.4	2035.6
45°	8018.4	6469.7	2493.7	2075.1	2053.6	2033.8	2010.4	1992.5	1996.1	1999.7	1999.7
47.5°	8178.3	6545.2	2317.7	2017.6	2005.0	1985.3	1956.5	1944.0	1956.5	1969.1	1969.1
50°	8372.3	6651.2	2173.9	1960.1	1954.7	1931.4	1906.2	1900.8	1915.2	1933.2	1933.2
52.5°	8514.3	6742.8	2071.5	1902.6	1902.6	1872.1	1850.5	1848.7	1864.9	1882.9	1884.7
55°	8780.2	6956.6	2035.6	1836.2	1829.0	1805.6	1789.5	1776.9	1796.6	1812.8	1812.8
57.5°	9080.2	7240.5	2044.6	1740.9	1732.0	1724.8	1712.2	1697.8	1703.2	1721.2	1723.0
60°	8444.2	6690.7	1945.8	1645.7	1640.3	1636.7	1620.6	1595.4	1602.6	1617.0	1618.8
62.5°	5898.4	4446.7	1573.9	1527.1	1545.1	1543.3	1521.8	1493.0	1494.8	1514.6	1514.6
65°	3061.5	2405.7	1381.6	1419.3	1446.3	1435.5	1399.6	1374.4	1370.8	1396.0	1390.6
67.5°	1320.5	1313.3	1257.6	1306.2	1334.9	1311.5	1273.8	1232.5	1236.1	1245.1	1237.9
70°	1063.6	1095.9	1119.3	1171.4	1194.8	1151.6	1110.3	1087.0	1067.2	1065.4	1052.8
72.5°	849.8	894.7	946.8	1000.7	1007.9	964.8	912.7	891.1	860.6	858.8	846.2
75°	639.6	677.3	718.7	761.8	761.8	720.5	686.3	675.5	639.6	628.8	618.0
77.5°	436.6	459.9	492.3	503.1	513.8	497.7	463.5	445.6	404.2	393.5	379.1
80°	274.9	291.1	310.8	318.0	328.8	309.0	282.1	262.3	233.6	224.6	217.4
82.5°	165.3	176.1	188.6	192.2	201.2	186.9	161.7	147.3	131.2	124.0	118.6
85°	84.4	89.8	97.0	98.8	97.0	82.6	73.7	66.5	55.7	53.9	50.3
87.5°	21.6	25.2	26.9	25.2	23.4	18.0	12.6	9.0	3.6	3.6	1.8
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)