

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: P633857

Luminaire Tested: GWS-SA2F-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13074.9 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

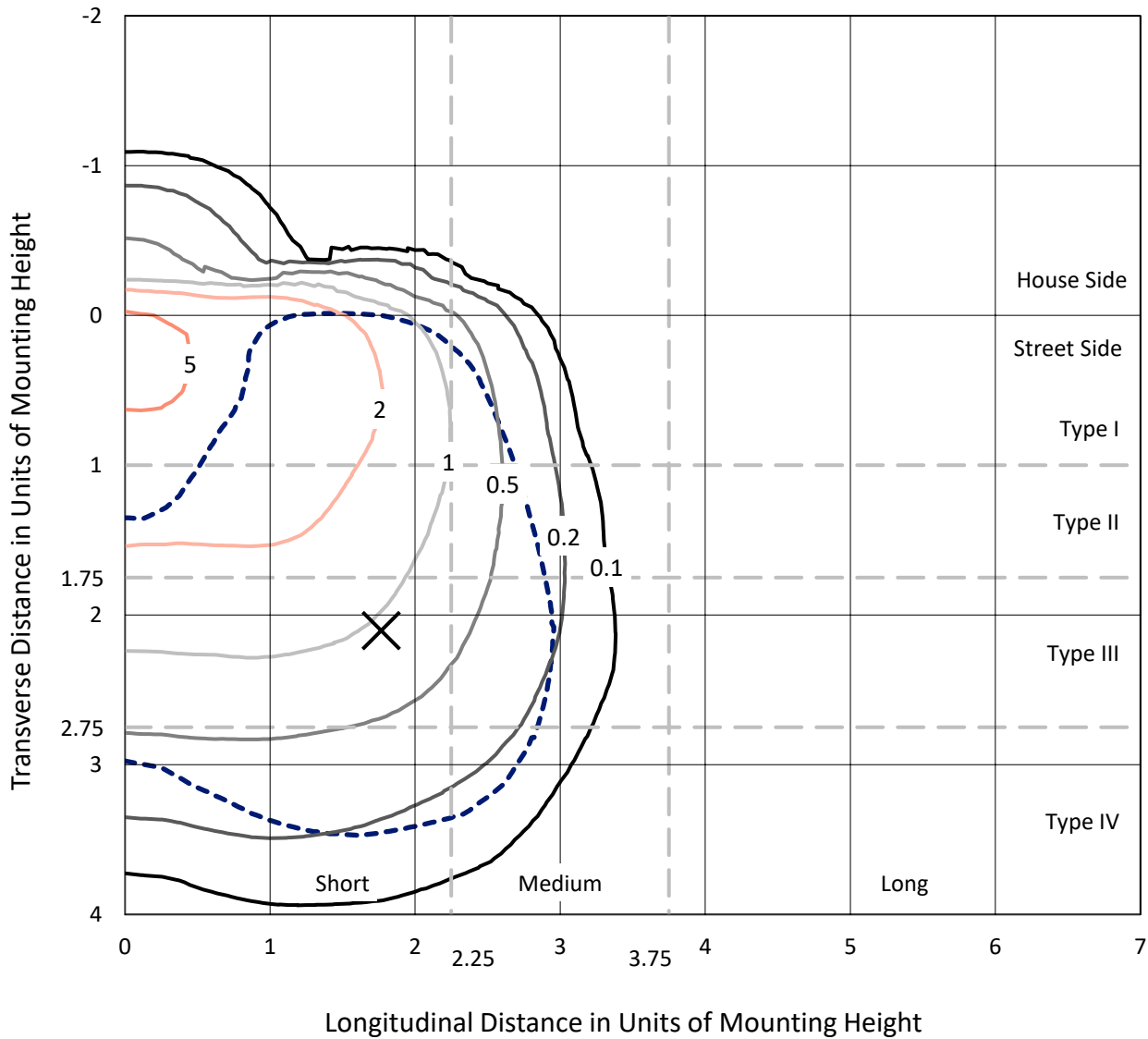
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633857
 CATALOG NUMBER: GWS-SA2F-750-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

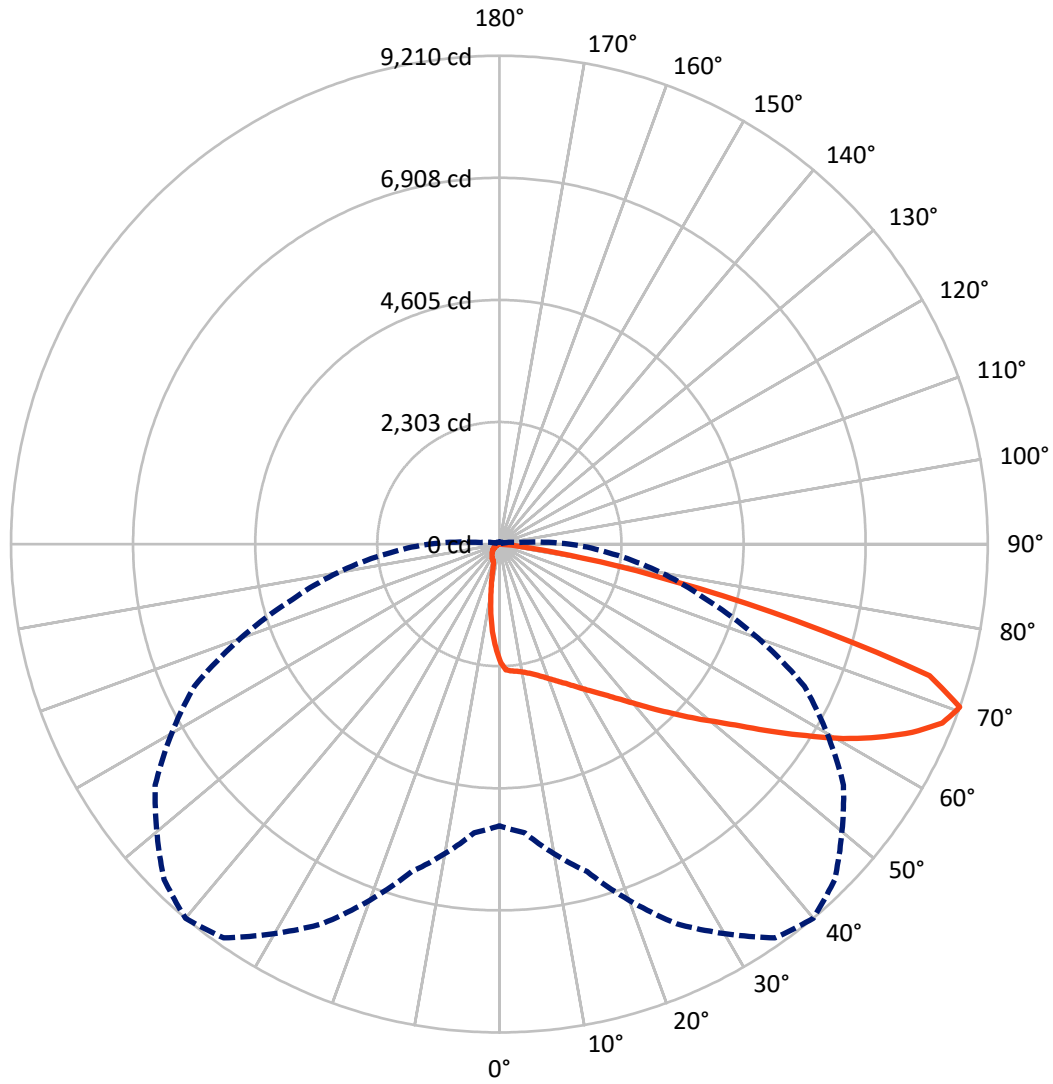
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

REPORT NUMBER: P633857
CATALOG NUMBER: GWS-SA2F-750-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P633857
 CATALOG NUMBER: GWS-SA2F-750-U-SL4-W-HSS

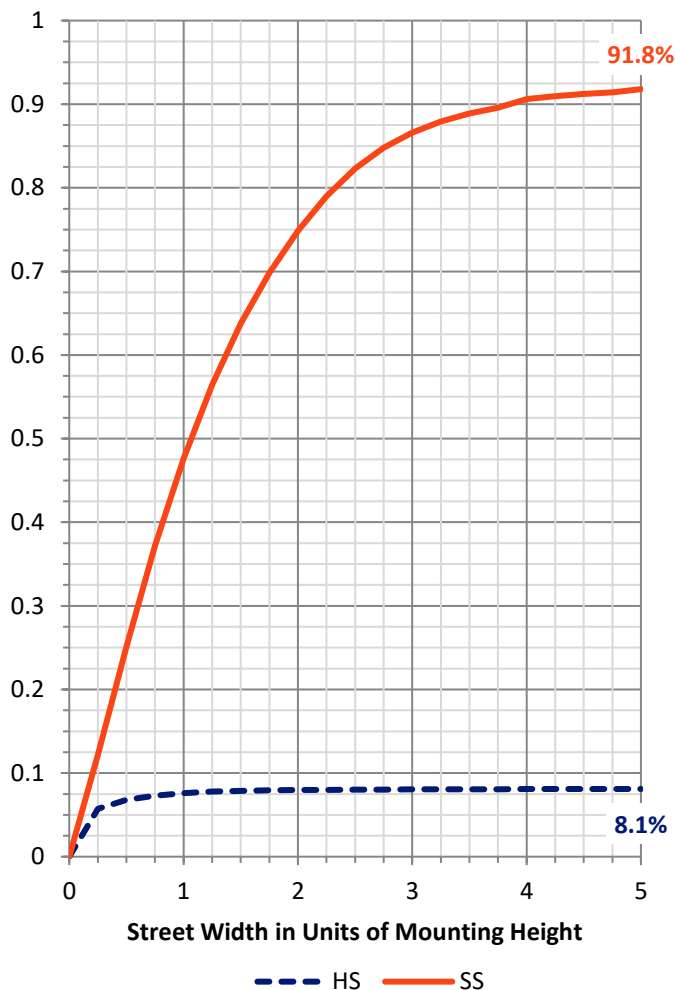
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1069.2	0.0	1069.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	12005.7	0.0	12005.7
	% Fixture	91.8	0.0	91.8
Total	Lumens	13074.9	0.0	13074.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.4
10°-20°	475.6	3.6
20°-30°	796.0	6.1
30°-40°	1250.2	9.6
40°-50°	1977.5	15.1
50°-60°	2884.7	22.1
60°-70°	3576.0	27.4
70°-80°	1809.2	13.8
80°-90°	118.1	0.9
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°	13074.9	100.0
0°-180°	13074.9	100.0

Coefficient of Utilization



REPORT NUMBER: P633857

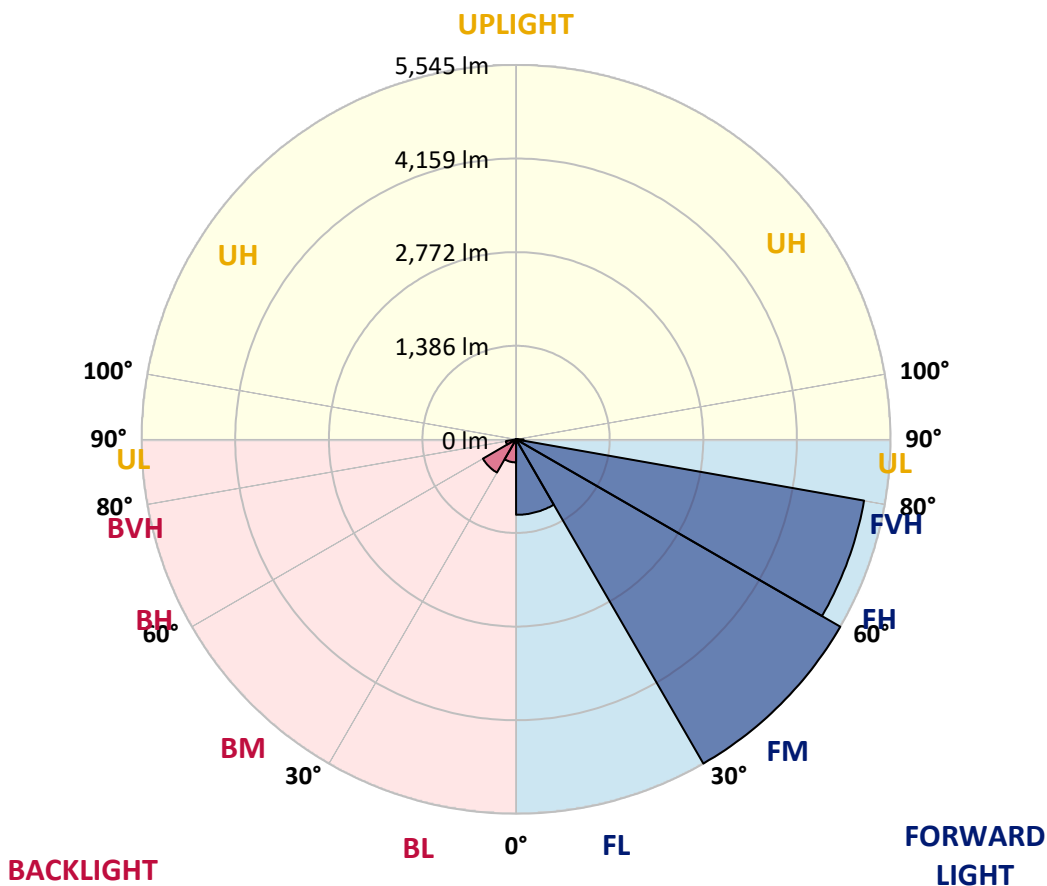
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.7	8.5			
FM (30°-60°)	5544.9	42.4			
FH (60°-80°)	5232.8	40.0			G3/7500
FVH (80°-90°)	110.3	0.8			G2/225
BL (0°-30°)	341.4	2.6	B1/500		
BM (30°-60°)	567.5	4.3	B1/1000		
BH (60°-80°)	152.5	1.2	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P633857

CATALOG NUMBER: GWS-SA2F-750-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7
2.5°	2385.2	2393.5	2392.3	2395.9	2387.6	2374.5	2372.1	2354.3	2322.2	2281.7	2236.5
5°	2434.0	2443.5	2436.4	2432.8	2417.3	2403.0	2399.5	2380.4	2343.6	2288.8	2210.3
7.5°	2475.6	2478.0	2473.2	2464.9	2442.3	2423.3	2410.2	2384.0	2340.0	2285.3	2194.9
10°	2482.8	2481.6	2483.9	2485.1	2470.9	2454.2	2443.5	2407.8	2351.9	2293.6	2196.1
12.5°	2474.4	2474.4	2489.9	2507.7	2507.7	2499.4	2488.7	2456.6	2391.1	2322.2	2219.8
15°	2485.1	2488.7	2518.4	2551.7	2562.5	2554.1	2549.4	2516.1	2448.3	2372.1	2262.7
17.5°	2523.2	2526.8	2574.4	2624.3	2637.4	2627.9	2618.4	2585.1	2512.5	2429.2	2311.4
20°	2579.1	2588.6	2649.3	2713.5	2725.4	2713.5	2694.5	2648.1	2575.5	2491.1	2357.8
22.5°	2681.4	2687.4	2752.8	2820.6	2826.6	2807.5	2779.0	2714.7	2638.6	2556.5	2410.2
25°	2817.0	2825.4	2890.8	2956.2	2940.8	2912.2	2872.9	2800.4	2713.5	2633.8	2476.8
27.5°	2978.8	2988.3	3052.6	3109.7	3069.2	3035.9	2991.9	2901.5	2813.5	2740.9	2562.5
30°	3153.7	3162.0	3219.1	3270.3	3216.8	3177.5	3125.1	3032.4	2943.1	2888.4	2683.8
32.5°	3322.6	3321.4	3376.2	3417.8	3363.1	3332.1	3284.6	3190.6	3119.2	3095.4	2864.6
35°	3479.7	3479.7	3524.9	3566.5	3527.2	3510.6	3466.6	3391.6	3351.2	3379.7	3106.1
37.5°	3637.9	3629.6	3672.4	3718.8	3715.2	3716.4	3691.4	3655.7	3658.1	3759.2	3438.0
40°	3768.7	3765.2	3815.1	3875.8	3923.4	3961.5	3946.0	3959.1	4034.0	4223.2	3862.7
42.5°	3873.4	3881.8	3946.0	4042.4	4162.5	4239.8	4250.5	4304.1	4496.8	4789.4	4342.1
45°	3993.6	3994.8	4084.0	4231.5	4423.0	4545.6	4588.4	4726.4	5000.0	5377.1	4868.0
47.5°	4141.1	4126.8	4226.7	4433.7	4710.9	4891.7	4967.9	5140.4	5563.9	5950.5	5296.2
50°	4304.1	4277.9	4390.9	4672.9	5033.3	5259.3	5414.0	5666.2	6123.0	6421.6	5615.0
52.5°	4493.2	4468.2	4596.7	4947.7	5419.9	5694.7	5893.4	6148.0	6602.4	6780.9	5805.4
55°	4733.5	4708.5	4844.2	5277.2	5876.8	6233.6	6441.8	6656.0	7048.5	7046.2	5943.4
57.5°	5000.0	4965.5	5153.5	5693.6	6446.6	6817.8	7029.5	7134.2	7387.6	7252.0	6036.2
60°	5305.7	5274.8	5535.3	6189.6	7104.5	7448.3	7581.5	7538.7	7666.0	7373.3	6004.0
62.5°	5581.7	5567.5	5891.0	6715.4	7731.4	8021.7	8058.5	7871.8	7870.6	7375.7	5787.5
65°	5868.4	5895.8	6376.4	7321.0	8361.9	8557.0	8493.9	8202.5	7952.7	7084.2	5147.5
67.5°	5975.5	6055.2	6696.4	7868.2	8859.2	9011.4	8900.8	8367.8	7611.2	6104.0	3919.8
70°	5314.1	5464.0	6394.2	7899.1	9065.0	9210.1	8944.8	7922.9	6345.5	4043.5	2147.3
72.5°	4041.2	4216.0	5328.3	6468.0	8152.5	8483.2	8030.0	6454.9	4089.9	1771.4	720.9
75°	2261.5	2450.6	3968.6	4870.3	5473.5	5775.6	5609.1	4141.1	1811.8	462.8	215.3
77.5°	764.9	828.0	1846.3	3013.3	3612.9	3341.7	2828.9	2056.9	666.2	176.1	114.2
80°	453.2	477.0	687.6	1500.1	1901.0	1576.3	1244.3	760.2	339.0	94.0	79.7
82.5°	135.6	160.6	379.5	556.7	744.7	464.0	392.6	434.2	176.1	51.2	66.6
85°	0.0	0.0	80.9	172.5	195.1	76.1	76.1	246.3	32.1	21.4	48.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.9	3.6	4.8	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633857

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7	2218.7
2.5°	2204.4	2162.7	2114.0	2067.6	2023.6	1966.5	1939.1	1905.8	1877.2	1861.8	1870.1
5°	2160.4	2094.9	1995.0	1893.9	1791.6	1695.2	1608.4	1550.1	1497.7	1470.4	1476.3
7.5°	2122.3	2034.3	1878.4	1713.1	1548.9	1383.5	1249.1	1144.4	1063.5	1030.2	1024.3
10°	2105.6	1995.0	1774.9	1537.0	1284.8	1062.3	872.0	756.6	674.5	634.1	641.2
12.5°	2114.0	1974.8	1686.9	1364.5	1037.4	778.0	596.0	487.7	429.5	405.7	399.7
15°	2137.8	1970.0	1608.4	1188.4	800.6	543.7	411.6	367.6	355.7	353.3	353.3
17.5°	2165.1	1971.2	1527.5	1010.0	607.9	403.3	352.1	343.8	340.2	337.9	339.0
20°	2192.5	1971.2	1434.7	829.2	456.8	348.6	335.5	329.5	326.0	324.8	324.8
22.5°	2225.8	1971.2	1331.2	661.4	366.4	330.7	320.0	316.4	312.9	311.7	310.5
25°	2266.2	1972.4	1217.0	517.5	333.1	315.3	306.9	303.4	299.8	297.4	297.4
27.5°	2324.5	1981.9	1090.9	403.3	314.1	301.0	293.8	290.3	286.7	283.1	283.1
30°	2409.0	2005.7	949.3	333.1	296.2	285.5	278.4	276.0	272.4	268.9	267.7
32.5°	2535.1	2047.3	803.0	298.6	279.6	268.9	260.5	258.1	254.6	251.0	249.8
35°	2711.2	2123.5	660.2	277.2	258.1	247.4	242.7	241.5	236.7	233.2	233.2
37.5°	2969.3	2247.2	523.4	255.8	240.3	232.0	226.0	223.6	218.9	215.3	214.1
40°	3284.6	2407.8	406.9	239.1	223.6	215.3	209.4	205.8	199.9	195.1	192.7
42.5°	3686.7	2604.1	321.2	221.3	208.2	199.9	195.1	188.0	179.6	172.5	171.3
45°	4105.4	2806.3	265.3	204.6	193.9	186.8	180.8	171.3	159.4	151.1	148.7
47.5°	4426.6	2932.4	232.0	186.8	178.4	172.5	165.4	153.5	139.2	129.7	127.3
50°	4656.2	2951.5	207.0	170.1	165.4	159.4	148.7	134.4	119.0	109.4	107.1
52.5°	4769.2	2865.8	186.8	154.7	151.1	145.1	132.0	116.6	99.9	90.4	88.0
55°	4820.4	2704.0	167.7	141.6	136.8	129.7	115.4	98.7	82.1	73.8	71.4
57.5°	4800.1	2464.9	151.1	128.5	122.5	114.2	98.7	80.9	67.8	59.5	58.3
60°	4650.3	2129.4	134.4	115.4	108.3	98.7	83.3	66.6	54.7	48.8	47.6
62.5°	4326.7	1713.1	117.8	99.9	95.2	85.7	71.4	54.7	45.2	41.6	40.4
65°	3664.1	1211.0	101.1	84.5	82.1	72.6	59.5	45.2	39.3	36.9	35.7
67.5°	2633.8	736.4	85.7	72.6	70.2	61.9	50.0	39.3	35.7	34.5	34.5
70°	1324.1	348.6	67.8	59.5	59.5	51.2	42.8	35.7	34.5	33.3	33.3
72.5°	449.7	148.7	51.2	46.4	48.8	44.0	36.9	33.3	33.3	33.3	33.3
75°	153.5	78.5	35.7	33.3	35.7	35.7	32.1	32.1	33.3	33.3	33.3
77.5°	99.9	52.3	25.0	22.6	27.4	27.4	27.4	29.7	32.1	32.1	32.1
80°	82.1	28.6	16.7	15.5	20.2	20.2	22.6	27.4	29.7	29.7	29.7
82.5°	70.2	17.8	9.5	10.7	14.3	15.5	19.0	22.6	26.2	27.4	27.4
85°	47.6	9.5	7.1	8.3	9.5	11.9	15.5	19.0	21.4	23.8	23.8
87.5°	13.1	3.6	4.8	5.9	5.9	8.3	11.9	14.3	16.7	17.8	17.8
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)