

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: P637776

Luminaire Tested: GWS-SA4D-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24296.7 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

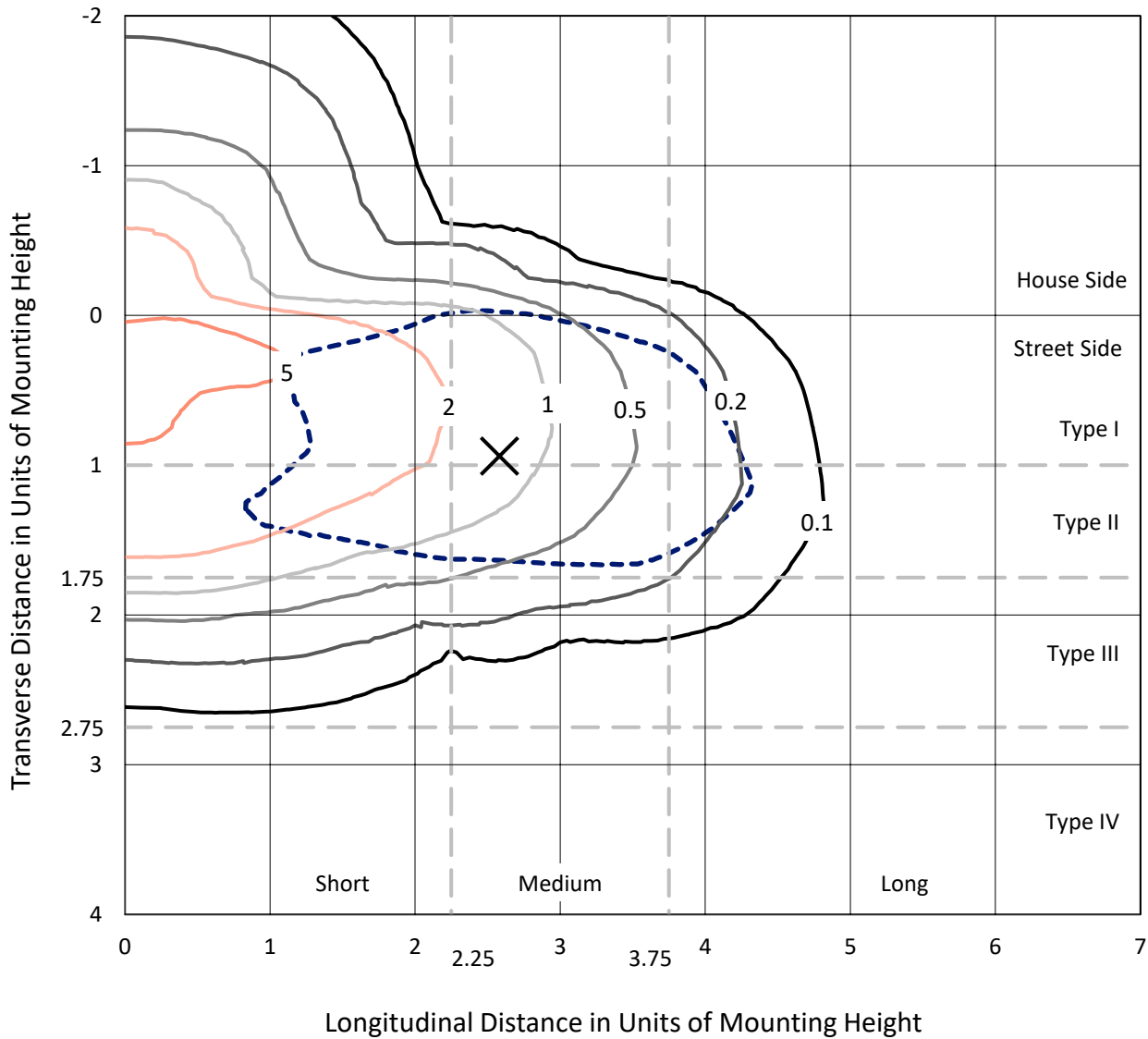
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637776
 CATALOG NUMBER: GWS-SA4D-740-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

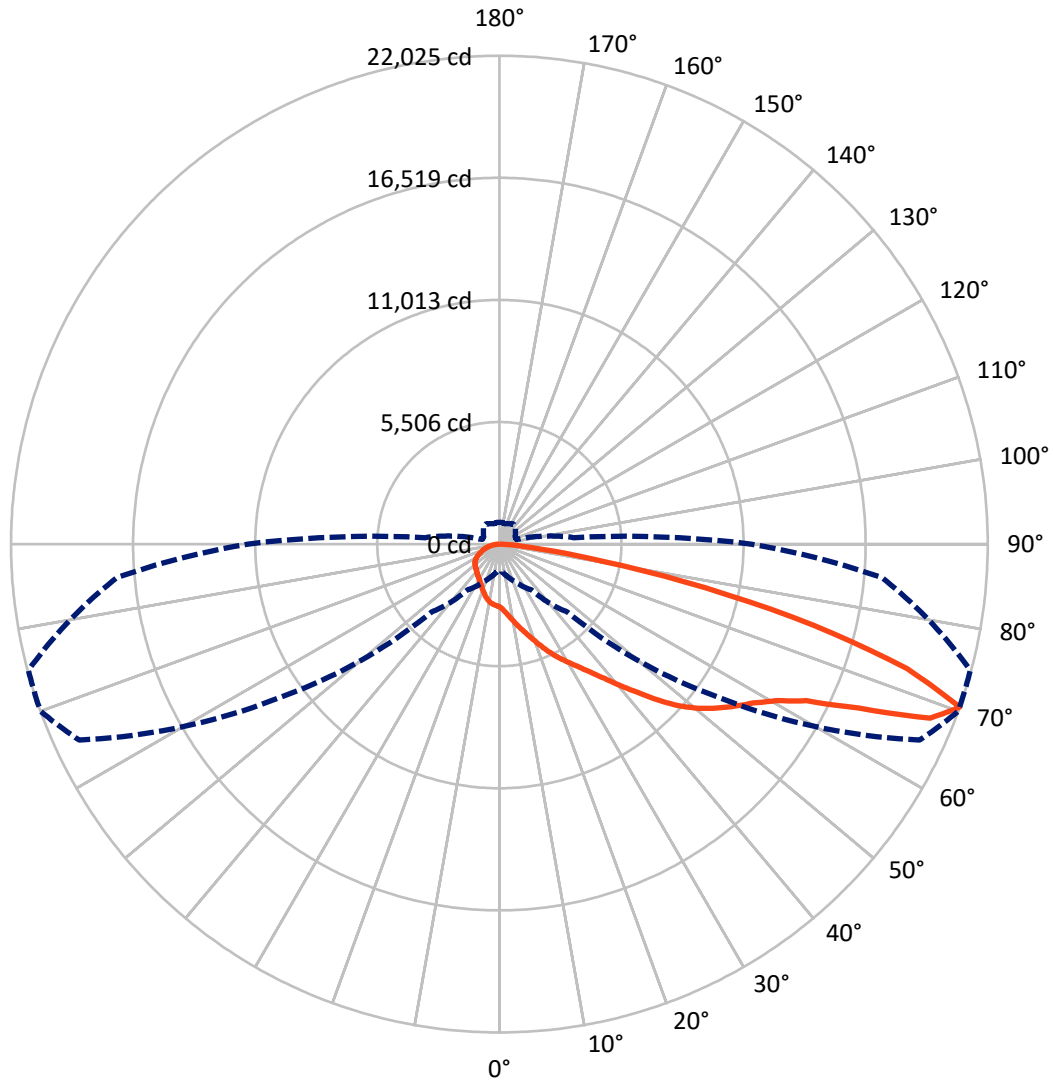
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P637776
CATALOG NUMBER: GWS-SA4D-740-U-T2-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637776

CATALOG NUMBER: GWS-SA4D-740-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4354.0	0.0	4354.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	19942.7	0.0	19942.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	24296.7	0.0	24296.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	1.2
10°-20°	936.8	3.9
20°-30°	1659.6	6.8
30°-40°	2497.8	10.3
40°-50°	3778.9	15.6
50°-60°	5413.4	22.3
60°-70°	5984.0	24.6
70°-80°	3376.9	13.9
80°-90°	361.2	1.5
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°	24296.7	100.0
0°-180°	24296.7	100.0

Coefficient of Utilization



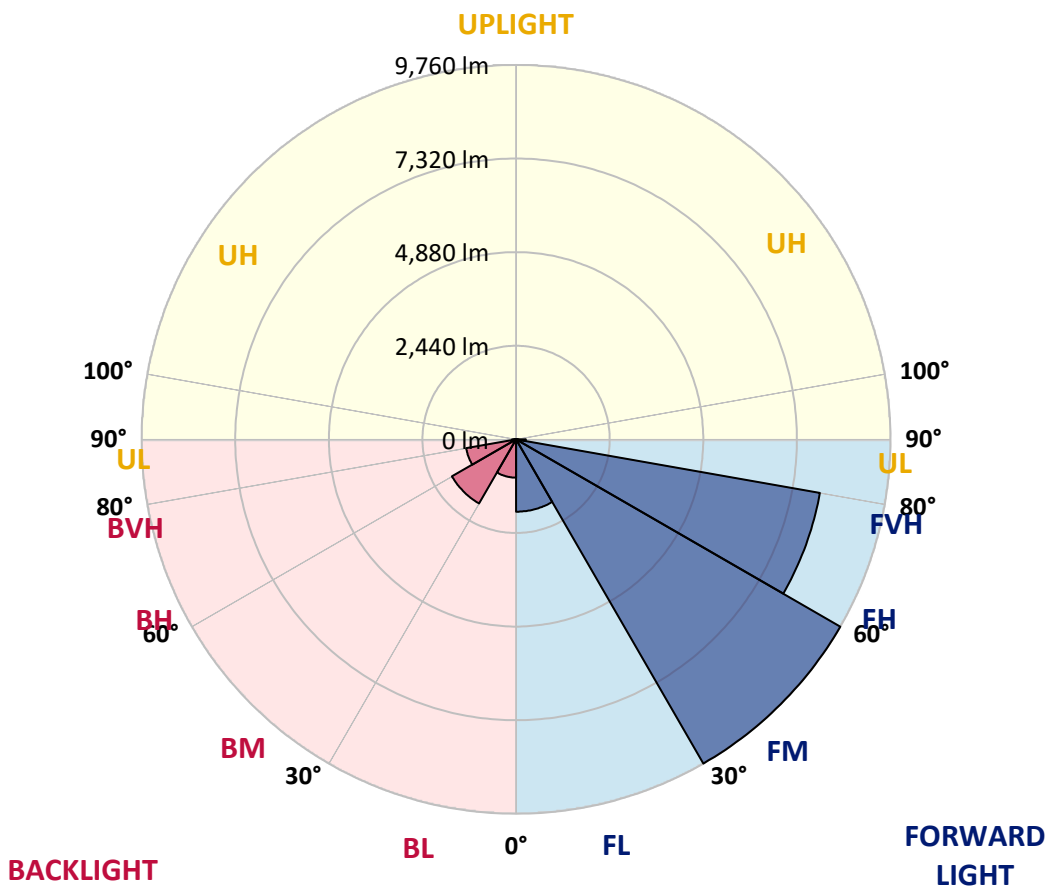
REPORT NUMBER: P637776

CATALOG NUMBER: GWS-SA4D-740-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1886.2	7.8			
FM (30°-60°)	9760.0	40.2			
FH (60°-80°)	8041.2	33.1			G4/12000
FVH (80°-90°)	255.3	1.1			G3/500
BL (0°-30°)	998.3	4.1	B2/1000		
BM (30°-60°)	1930.2	7.9	B2/2500		
BH (60°-80°)	1319.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	105.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





REPORT NUMBER: P637776
 CATALOG NUMBER: GWS-SA4D-740-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5
2.5°	3139.0	3133.7	3137.2	3133.7	3114.4	3067.0	3028.4	2979.2	2945.9	2926.5	2880.9
5°	3507.6	3502.4	3490.1	3472.5	3437.4	3372.5	3275.9	3168.8	3103.9	3054.7	2958.1
7.5°	3772.7	3772.7	3771.0	3749.9	3725.3	3656.9	3542.8	3402.3	3307.5	3223.2	3065.2
10°	3907.9	3916.7	3929.0	3958.8	3953.6	3916.7	3809.6	3658.6	3539.2	3440.9	3205.7
12.5°	3981.6	3986.9	4008.0	4069.4	4132.6	4141.4	4078.2	3920.2	3790.3	3658.6	3361.9
15°	4076.4	4078.2	4106.3	4180.0	4273.1	4366.1	4350.3	4192.3	4058.9	3913.2	3535.7
17.5°	4150.2	4162.5	4213.4	4299.4	4415.3	4543.4	4620.7	4522.4	4357.3	4190.6	3725.3
20°	4176.5	4185.3	4252.0	4383.7	4541.7	4722.5	4894.5	4868.2	4701.4	4504.8	3939.5
22.5°	4271.3	4271.3	4320.5	4431.1	4617.2	4880.5	5159.6	5228.1	5080.6	4850.7	4169.5
25°	4480.2	4473.2	4496.0	4541.7	4682.1	5006.9	5421.2	5626.6	5461.6	5203.5	4399.5
27.5°	4766.4	4762.9	4761.1	4768.1	4815.5	5117.5	5642.4	5998.8	5833.8	5542.4	4604.9
30°	5077.1	5066.6	5089.4	5068.3	5057.8	5249.2	5830.3	6332.4	6204.2	5877.7	4775.2
32.5°	5500.2	5480.9	5475.6	5407.2	5365.0	5454.6	5981.2	6711.6	6609.7	6239.3	4966.5
35°	6058.5	6040.9	5951.4	5842.6	5717.9	5760.0	6169.1	7082.0	7089.0	6692.3	5217.6
37.5°	6622.0	6625.5	6555.3	6299.0	6170.8	6146.3	6455.2	7533.2	7684.2	7233.0	5542.4
40°	7090.8	7111.8	7111.8	6841.5	6650.1	6627.3	6857.3	8068.6	8368.8	7896.6	5953.2
42.5°	7447.1	7466.5	7527.9	7333.0	7131.1	7210.1	7345.3	8605.8	9144.8	8716.4	6472.8
45°	7838.6	7854.4	7887.8	7775.4	7657.8	7868.5	7898.3	9248.4	10033.1	9636.4	7076.7
47.5°	8358.3	8344.2	8347.8	8265.2	8174.0	8514.5	8507.5	9789.1	10891.6	10644.1	7731.6
50°	9004.3	9030.7	9006.1	8842.8	8735.7	9046.5	9086.9	10387.7	11646.5	11641.2	8391.6
52.5°	9625.8	9636.4	9766.3	9773.3	9553.8	9488.9	9594.2	10991.7	12283.8	12554.1	9025.4
55°	9657.4	9697.8	10087.5	10368.4	10723.1	10201.6	10106.8	11567.5	12900.0	13447.7	9683.8
57.5°	8985.0	9050.0	9711.8	10317.5	11304.1	11425.3	10984.6	12311.8	13516.2	14327.2	10445.7
60°	7549.0	7684.2	8583.0	9510.0	11042.6	12304.8	12780.6	13323.1	14325.5	15226.1	11370.9
62.5°	4820.8	4873.5	6134.0	7685.9	9864.6	12218.8	14736.3	15105.0	15557.9	16397.1	12796.4
65°	2413.9	2582.5	3321.5	4587.3	7113.6	10766.9	15724.7	18368.6	17813.8	18401.9	15106.7
67.5°	1638.0	1692.4	2066.3	2756.3	4171.2	7628.0	15112.0	21117.8	20954.5	21051.1	17569.8
70°	1207.8	1242.9	1537.9	1952.2	2522.8	4331.0	12031.0	20910.7	22025.4	21990.3	17311.7
72.5°	881.3	898.9	1121.8	1490.5	1869.7	2240.1	7347.1	16892.1	19227.1	20240.0	15140.1
75°	640.8	661.9	779.5	1114.8	1453.6	1397.4	3627.0	12201.2	14662.6	16611.3	12334.7
77.5°	477.5	503.9	558.3	698.7	1018.2	1000.7	1567.7	7922.9	9483.6	10849.5	7492.8
80°	344.1	349.4	381.0	447.7	646.1	586.4	746.1	4130.9	4736.5	5189.5	2937.1
82.5°	208.9	214.2	254.6	275.6	400.3	368.7	388.0	1337.7	1917.1	2034.7	1097.2
85°	61.4	65.0	115.9	126.4	166.8	158.0	156.2	544.2	649.6	830.4	431.9
87.5°	0.0	0.0	0.0	0.0	1.8	10.5	19.3	96.6	145.7	201.9	105.3
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: P637776
 CATALOG NUMBER: GWS-SA4D-740-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5	2833.5
2.5°	2863.3	2823.0	2801.9	2765.0	2738.7	2712.4	2686.0	2661.5	2650.9	2635.1	2638.6
5°	2914.3	2851.1	2787.9	2715.9	2654.4	2603.5	2557.9	2517.5	2499.9	2484.1	2491.2
7.5°	2991.5	2896.7	2775.6	2643.9	2547.3	2477.1	2429.7	2401.6	2392.8	2380.6	2380.6
10°	3089.8	2947.6	2735.2	2547.3	2431.5	2375.3	2354.2	2352.5	2361.2	2363.0	2359.5
12.5°	3198.7	2996.8	2675.5	2433.2	2334.9	2317.4	2333.2	2363.0	2392.8	2408.6	2405.1
15°	3311.0	3028.4	2573.7	2324.4	2264.7	2287.5	2338.4	2398.1	2456.0	2485.9	2484.1
17.5°	3416.3	3035.4	2442.0	2219.0	2203.2	2261.2	2349.0	2442.0	2521.0	2563.1	2564.9
20°	3534.0	3023.1	2306.8	2124.2	2141.8	2236.6	2352.5	2464.8	2557.9	2600.0	2610.5
22.5°	3641.1	2981.0	2175.2	2034.7	2089.1	2206.8	2324.4	2429.7	2512.2	2552.6	2566.7
25°	3737.6	2900.2	2031.2	1959.2	2048.8	2164.6	2254.2	2327.9	2385.8	2410.4	2429.7
27.5°	3790.3	2779.1	1922.4	1899.5	2010.1	2104.9	2154.1	2176.9	2196.2	2189.2	2203.2
30°	3800.8	2628.1	1827.6	1852.1	1952.2	2022.4	2033.0	2010.1	1976.8	1922.4	1934.6
32.5°	3790.3	2454.3	1748.6	1801.2	1887.2	1929.4	1915.3	1855.6	1774.9	1690.6	1695.9
35°	3793.8	2278.7	1683.6	1745.0	1811.8	1834.6	1799.5	1717.0	1630.9	1553.7	1550.2
37.5°	3832.4	2131.3	1629.2	1690.6	1738.0	1741.5	1702.9	1616.9	1573.0	1515.1	1508.0
40°	3939.5	2022.4	1580.0	1636.2	1666.0	1664.3	1620.4	1559.0	1588.8	1569.5	1564.2
42.5°	4115.1	1955.7	1539.6	1578.3	1599.3	1602.8	1567.7	1529.1	1594.1	1569.5	1560.7
45°	4397.7	1952.2	1511.6	1520.3	1553.7	1578.3	1553.7	1509.8	1534.4	1415.0	1392.2
47.5°	4733.0	2011.9	1490.5	1469.4	1527.4	1571.2	1532.6	1462.4	1411.5	1302.6	1286.8
50°	5136.8	2133.0	1471.2	1415.0	1488.7	1544.9	1506.3	1409.7	1332.5	1274.5	1265.8
52.5°	5616.1	2292.8	1446.6	1353.5	1430.8	1530.9	1506.3	1404.5	1302.6	1250.0	1241.2
55°	6118.2	2477.1	1418.5	1279.8	1365.8	1534.4	1518.6	1367.6	1279.8	1251.7	1244.7
57.5°	6741.4	2698.3	1367.6	1193.8	1307.9	1502.8	1469.4	1346.5	1264.0	1241.2	1234.2
60°	7550.7	3026.6	1271.0	1106.0	1241.2	1446.6	1425.5	1311.4	1221.9	1202.6	1197.3
62.5°	8832.3	3583.1	1153.4	1021.7	1162.2	1329.0	1360.6	1244.7	1169.2	1167.5	1165.7
65°	10921.4	4252.0	1014.7	946.3	1079.7	1232.4	1274.5	1176.2	1114.8	1134.1	1132.3
67.5°	12385.6	4309.9	900.6	867.3	983.1	1127.1	1188.5	1106.0	1039.3	1076.2	1074.4
70°	11344.5	3361.9	802.3	784.7	879.5	1013.0	1095.5	1018.2	951.5	986.6	979.6
72.5°	9567.9	2577.2	709.3	698.7	774.2	893.6	976.1	930.5	860.2	860.2	844.4
75°	7689.4	2126.0	610.9	605.7	656.6	772.5	865.5	788.3	723.3	719.8	709.3
77.5°	4410.0	1393.9	512.6	509.1	524.9	646.1	672.4	656.6	607.4	584.6	577.6
80°	1757.3	725.1	403.8	381.0	396.8	474.0	530.2	503.9	461.7	433.6	417.8
82.5°	681.2	363.4	284.4	249.3	272.1	342.3	384.5	375.7	347.6	284.4	266.8
85°	277.4	177.3	170.3	144.0	158.0	184.3	221.2	191.4	158.0	112.4	107.1
87.5°	73.7	65.0	63.2	38.6	29.8	8.8	1.8	0.0	0.0	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)