

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: P638817

Luminaire Tested: GWS-SA4F-750-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34740.6 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

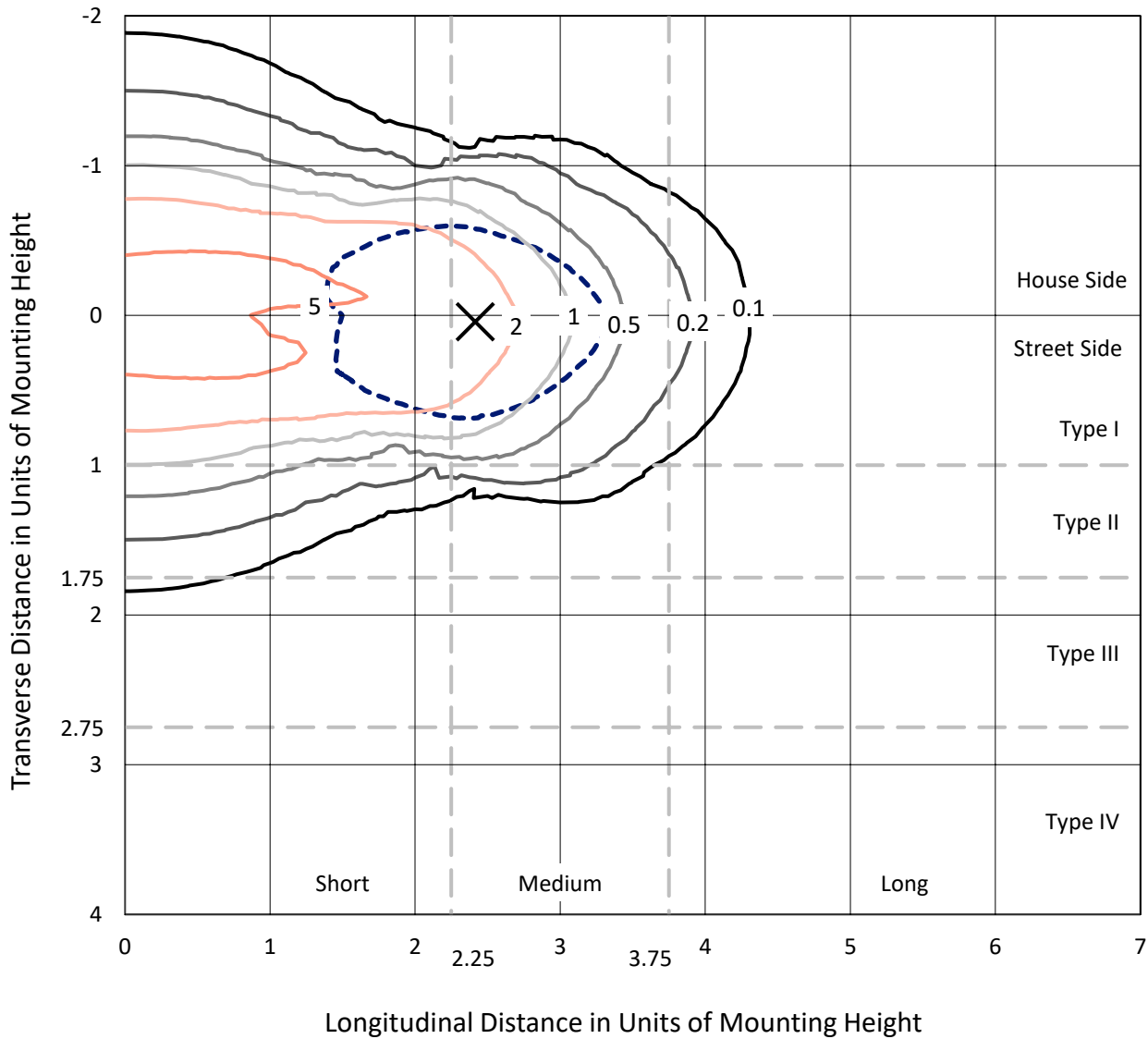
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638817
 CATALOG NUMBER: GWS-SA4F-750-U-T1-W

Iso-Footcandle Lines of Horizontal Illumination

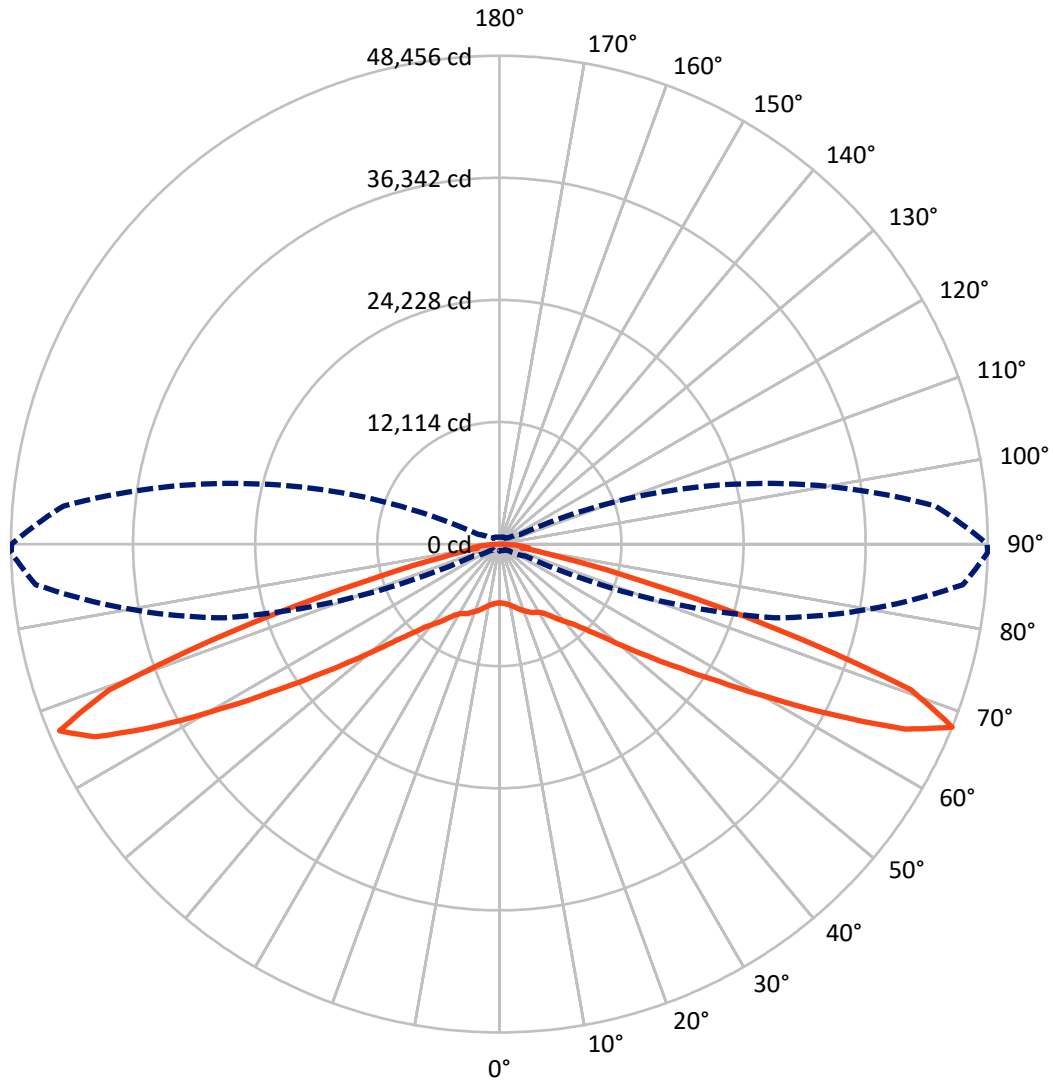
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type I - Medium - N/A

REPORT NUMBER: P638817
CATALOG NUMBER: GWS-SA4F-750-U-T1-W

Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638817

CATALOG NUMBER: GWS-SA4F-750-U-T1-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17218.1	0.0	17218.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17522.5	0.0	17522.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	34740.6	0.0	34740.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.9	1.7
10°-20°	1904.5	5.5
20°-30°	3219.4	9.3
30°-40°	4418.3	12.7
40°-50°	5634.3	16.2
50°-60°	7069.1	20.3
60°-70°	8525.9	24.5
70°-80°	3084.4	8.9
80°-90°	300.0	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°	34740.6	100.0
0°-180°	34740.6	100.0

Coefficient of Utilization



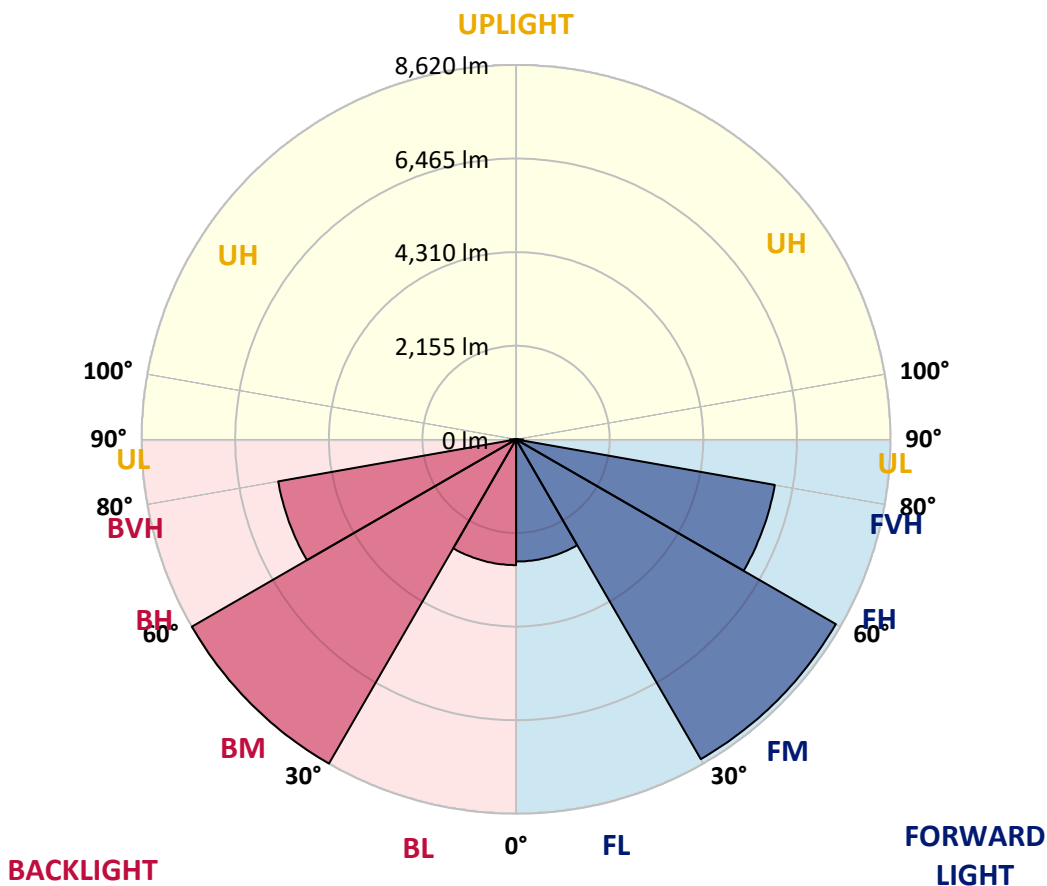
REPORT NUMBER: P638817

CATALOG NUMBER: GWS-SA4F-750-U-T1-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2813.7	8.1			
FM (30°-60°)	8501.7	24.5			
FH (60°-80°)	6048.8	17.4			G3/7500
FVH (80°-90°)	158.3	0.5			G2/225
BL (0°-30°)	2895.1	8.3	B4/5000		
BM (30°-60°)	8619.9	24.8	B5		
BH (60°-80°)	5561.4	16.0	B5		G5
BVH (80°-90°)	141.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Medium





REPORT NUMBER: P638817
 CATALOG NUMBER: GWS-SA4F-750-U-T1-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9
2.5°	5848.4	5843.4	5830.9	5868.4	5860.9	5863.4	5878.3	5868.4	5850.9	5820.9	5863.4
5°	6013.1	6010.6	5983.1	6005.6	5980.6	5963.2	5960.7	5935.7	5915.8	5883.3	5928.2
7.5°	6172.8	6170.3	6147.8	6187.7	6167.8	6147.8	6125.3	6075.4	6028.0	5980.6	6030.5
10°	6295.0	6292.5	6287.5	6344.9	6349.9	6357.4	6347.4	6262.6	6180.2	6122.9	6172.8
12.5°	6364.9	6372.4	6384.8	6489.6	6542.0	6591.9	6604.4	6534.5	6397.3	6315.0	6374.9
15°	6317.5	6332.4	6394.8	6584.4	6729.1	6841.4	6888.8	6831.4	6654.3	6517.1	6584.4
17.5°	6090.4	6102.9	6225.1	6514.6	6833.9	7093.4	7170.8	7135.8	6938.7	6771.6	6836.4
20°	5776.0	5803.5	5935.7	6339.9	6816.5	7268.1	7475.2	7462.7	7248.1	6991.1	7068.5
22.5°	5491.6	5524.0	5663.8	6110.4	6699.2	7313.0	7782.1	7814.5	7530.1	7210.7	7273.1
25°	5172.2	5202.2	5381.8	5838.4	6497.1	7278.1	8044.0	8191.2	7849.4	7462.7	7520.1
27.5°	4845.4	4867.8	5045.0	5531.5	6232.6	7213.2	8251.1	8605.4	8163.8	7637.3	7677.3
30°	4558.5	4588.4	4750.6	5224.6	5943.2	7083.4	8420.8	9047.0	8525.6	7834.5	7866.9
32.5°	4281.5	4306.5	4483.6	4922.7	5636.3	6883.8	8573.0	9566.0	9062.0	8201.2	8201.2
35°	3932.2	3977.1	4176.7	4633.3	5346.9	6619.4	8682.8	10169.8	9795.6	8742.7	8745.1
37.5°	3610.3	3635.3	3844.9	4306.5	5042.5	6320.0	8692.8	10796.1	10723.7	9431.3	9436.3
40°	3243.6	3276.0	3500.6	3957.1	4693.2	6005.6	8597.9	11379.9	11696.8	10139.9	10112.4
42.5°	2871.8	2919.2	3133.8	3580.4	4316.4	5621.3	8345.9	11936.3	12931.8	10960.8	10893.4
45°	2512.5	2542.5	2757.0	3178.7	3884.8	5162.3	7941.7	12470.3	14398.9	12208.3	12111.0
47.5°	2108.3	2120.8	2342.9	2747.0	3438.2	4650.8	7362.9	12946.8	16010.7	13860.0	13692.8
50°	1749.0	1766.5	1941.1	2288.0	2891.8	4044.5	6641.8	13226.3	18064.2	16113.0	15823.6
52.5°	1414.7	1432.2	1571.9	1848.8	2390.3	3353.3	5748.6	13161.4	20147.5	18910.0	18488.3
55°	1142.7	1155.2	1250.0	1467.1	1881.3	2667.2	4693.2	12580.0	22460.4	22562.7	21654.5
57.5°	965.6	970.6	1035.4	1167.7	1469.6	2055.9	3622.8	11207.8	24885.6	27223.5	25731.4
60°	863.3	865.8	895.7	978.1	1160.2	1569.4	2654.7	9022.1	27398.1	33054.4	31008.5
62.5°	798.4	798.4	823.4	870.8	963.1	1207.6	1951.1	6479.6	29202.1	39399.3	37365.9
65°	736.0	736.0	753.5	793.4	843.3	985.5	1464.6	4179.2	30087.8	44703.8	44252.2
67.5°	656.2	658.7	671.2	713.6	758.5	823.4	1110.3	2826.9	28248.9	46170.9	48456.3
70°	581.3	583.8	601.3	628.8	666.2	711.1	868.3	1948.6	20561.7	38453.7	43326.5
72.5°	499.0	509.0	521.5	551.4	573.9	606.3	708.6	1262.5	11963.8	24735.9	28640.7
75°	409.2	421.7	436.6	466.6	481.5	494.0	583.8	900.7	5756.1	12535.1	14274.2
77.5°	316.9	329.3	346.8	374.3	384.2	399.2	446.6	651.2	2757.0	5556.5	5990.6
80°	212.1	217.1	232.0	264.5	281.9	291.9	329.3	444.1	1197.6	2230.6	2210.6
82.5°	129.7	132.2	137.2	157.2	164.7	174.7	214.6	272.0	571.4	2535.0	2906.7
85°	47.4	44.9	42.4	54.9	64.9	74.9	99.8	137.2	249.5	1741.5	1948.6
87.5°	0.0	0.0	0.0	2.5	5.0	5.0	10.0	20.0	59.9	651.2	446.6
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: P638817
 CATALOG NUMBER: GWS-SA4F-750-U-T1-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9	5830.9
2.5°	5850.9	5823.4	5858.4	5883.3	5938.2	5958.2	5963.2	5945.7	5945.7	5915.8	5920.8
5°	5918.3	5900.8	5958.2	6000.6	6080.4	6110.4	6130.3	6117.9	6125.3	6105.4	6110.4
7.5°	6020.6	6005.6	6105.4	6187.7	6270.1	6305.0	6322.5	6312.5	6315.0	6290.0	6297.5
10°	6162.8	6167.8	6287.5	6394.8	6504.6	6539.5	6547.0	6517.1	6492.1	6447.2	6449.7
12.5°	6357.4	6382.3	6552.0	6671.8	6784.0	6833.9	6779.0	6669.3	6567.0	6489.6	6479.6
15°	6569.5	6614.4	6858.9	7011.1	7133.3	7108.4	6946.2	6699.2	6497.1	6382.3	6359.9
17.5°	6824.0	6891.3	7198.2	7380.4	7485.1	7325.5	6986.1	6616.9	6334.9	6180.2	6150.3
20°	7063.5	7170.8	7557.5	7794.5	7807.0	7447.7	6968.7	6449.7	6095.4	5905.8	5865.9
22.5°	7283.0	7420.3	7934.3	8236.2	8074.0	7502.6	6861.4	6212.7	5806.0	5583.9	5549.0
25°	7522.6	7717.2	8373.4	8655.3	8340.9	7480.2	6636.8	5918.3	5456.7	5229.6	5204.7
27.5°	7687.2	7931.8	8815.0	9084.5	8560.5	7352.9	6347.4	5596.4	5137.3	4922.7	4887.8
30°	7876.9	8188.8	9301.5	9551.0	8695.2	7165.8	6038.0	5297.0	4840.4	4608.4	4583.4
32.5°	8221.2	8612.9	9905.3	10045.1	8737.7	6933.7	5741.1	5007.6	4531.0	4299.0	4264.0
35°	8775.1	9234.2	10753.7	10596.5	8705.2	6679.2	5459.2	4668.2	4214.1	3997.1	3962.1
37.5°	9473.7	10045.1	11699.3	11093.0	8615.4	6399.8	5124.8	4383.8	3929.7	3710.1	3690.2
40°	10124.9	10828.5	12759.7	11522.1	8433.3	6055.5	4803.0	4086.9	3622.8	3390.8	3345.9
42.5°	10940.8	11876.4	13987.2	11893.9	8133.9	5643.8	4441.2	3720.1	3238.6	3029.0	2974.1
45°	12180.8	13343.5	15414.4	12250.7	7687.2	5137.3	3987.1	3273.5	2816.9	2602.3	2559.9
47.5°	13727.8	15177.4	16961.3	12462.8	7008.6	4603.4	3473.1	2801.9	2345.3	2103.3	2083.4
50°	15900.9	17844.6	18620.6	12425.3	6250.1	3969.6	2894.3	2240.6	1858.8	1684.2	1656.7
52.5°	18548.2	21192.9	20414.5	11976.2	5444.2	3248.6	2255.5	1759.0	1474.6	1349.8	1327.4
55°	21869.1	25202.5	22303.2	11013.1	4426.2	2487.6	1771.5	1387.2	1192.6	1117.8	1107.8
57.5°	25980.9	30394.7	24122.1	9391.4	3328.4	1898.7	1364.8	1145.2	1052.9	1008.0	1005.5
60°	31407.7	35906.3	25701.5	7298.0	2382.8	1452.1	1127.8	1023.0	950.6	920.7	918.2
62.5°	37859.9	40911.3	26684.6	4970.1	1791.4	1157.7	993.0	928.2	885.7	868.3	865.8
65°	44491.7	44075.0	26215.5	3256.0	1359.8	983.0	890.7	855.8	818.4	800.9	800.9
67.5°	48408.9	43406.4	22615.1	2260.5	1077.9	863.3	803.4	771.0	708.6	693.6	693.6
70°	42877.4	35172.7	14823.1	1654.2	873.3	756.0	698.6	653.7	628.8	613.8	611.3
72.5°	28358.7	22887.1	7881.9	1147.7	728.6	643.7	591.3	573.9	543.9	529.0	526.5
75°	14114.5	12021.1	4039.5	828.4	606.3	516.5	494.0	486.5	461.6	441.6	436.6
77.5°	5883.3	5351.9	1883.8	601.3	461.6	416.7	396.7	396.7	369.3	346.8	336.8
80°	2218.1	1976.1	890.7	411.7	341.8	309.4	296.9	286.9	264.5	237.0	222.1
82.5°	2966.6	1938.7	436.6	257.0	224.6	199.6	182.1	174.7	162.2	149.7	139.7
85°	1921.2	1377.3	197.1	132.2	112.3	84.8	74.9	69.9	62.4	54.9	49.9
87.5°	391.7	461.6	59.9	25.0	15.0	7.5	7.5	2.5	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)