

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P191578

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59848.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

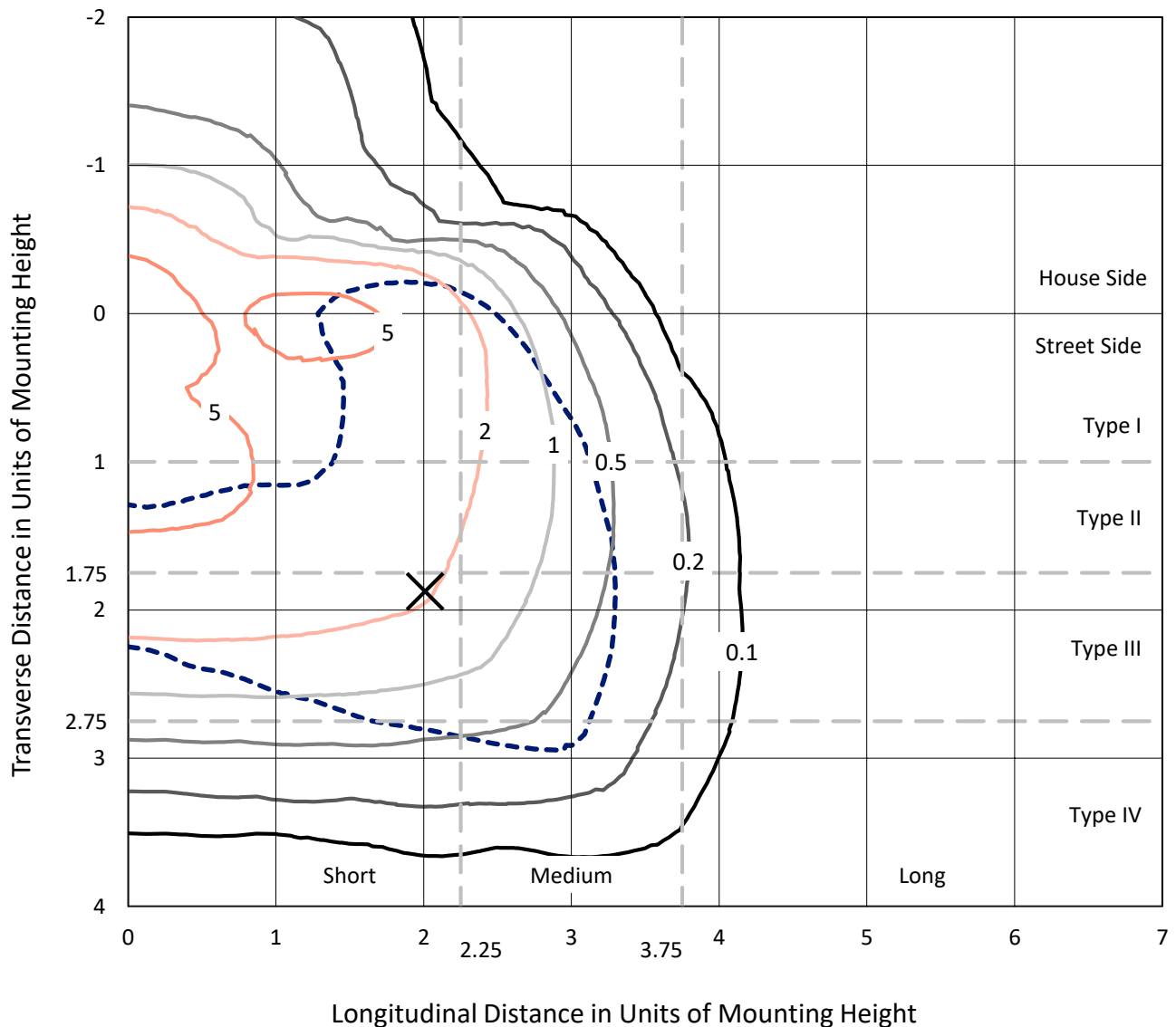
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191578
 CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W

Iso-Footcandle Lines of Horizontal Illumination

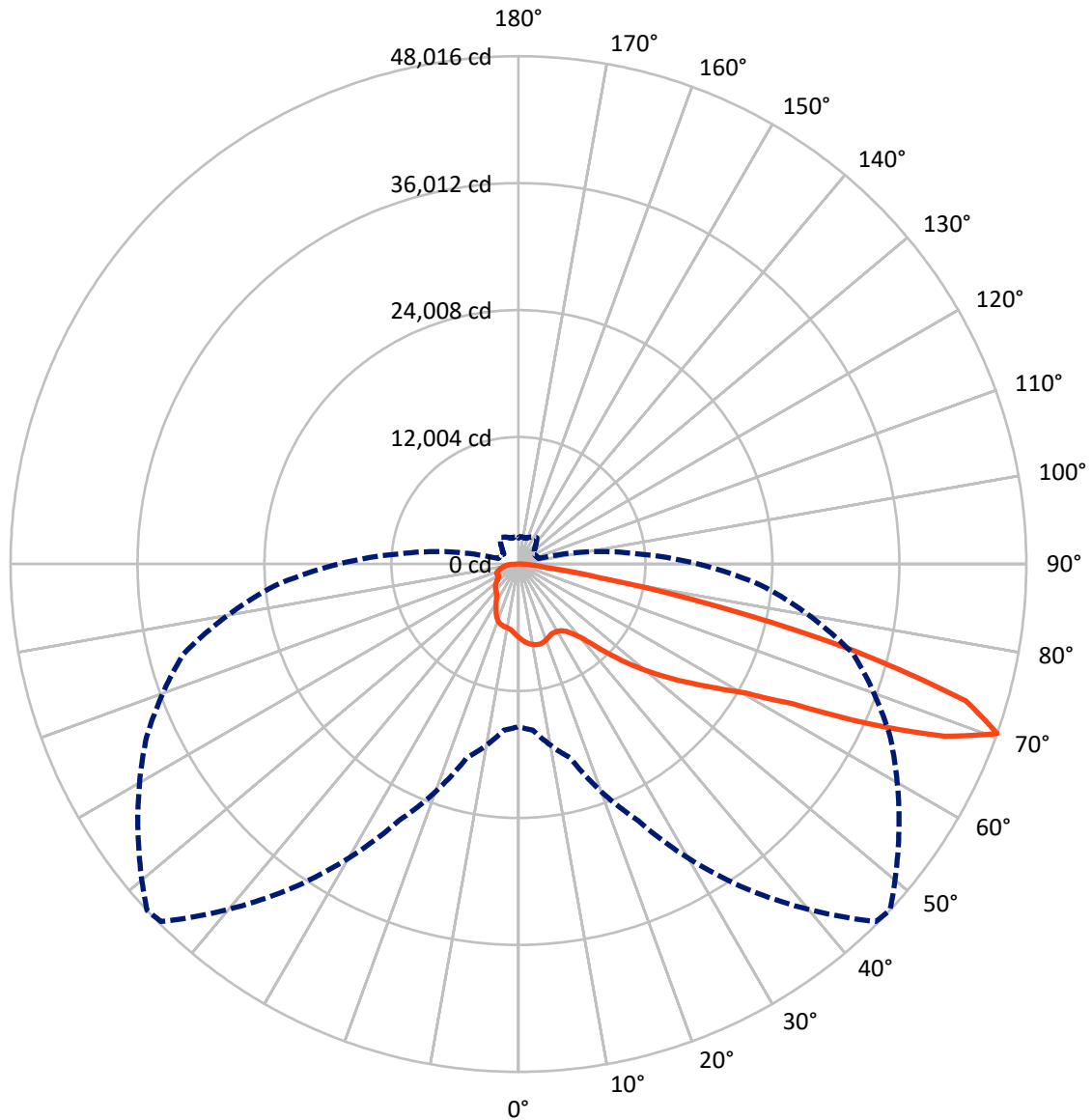
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191578
CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191578

CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12485.6	0.0	12485.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	47363.1	0.0	47363.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	59848.8	0.0	59848.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.4	1.1
10°-20°	1952.1	3.3
20°-30°	2882.7	4.8
30°-40°	4189.9	7.0
40°-50°	7540.4	12.6
50°-60°	13062.9	21.8
60°-70°	18644.5	31.2
70°-80°	9571.1	16.0
80°-90°	1340.0	2.2
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°	59848.8	100.0
0°-180°	59848.8	100.0



REPORT NUMBER: P191578

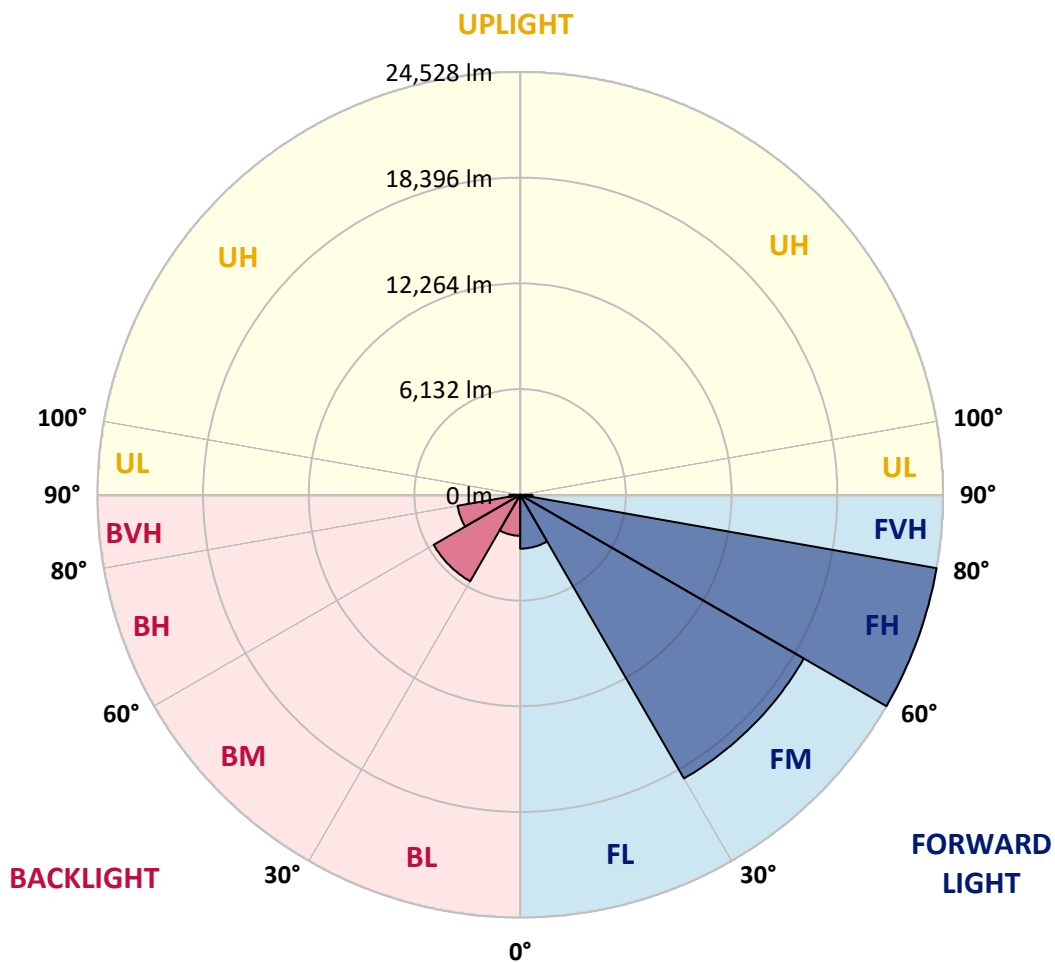
CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3122.8	5.2			
FM	(30°-60°)	18997.7	31.7			
FH	(60°-80°)	24527.7	41.0			G5
FVH	(80°-90°)	715.0	1.2			G4/750
BL	(0°-30°)	2377.3	4.0	B3/2500		
BM	(30°-60°)	5795.5	9.7	B4/8500		
BH	(60°-80°)	3687.9	6.2	B4/5000		G4/5000
BVH	(80°-90°)	625.0	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P191578

CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3
2.5°	7351.9	7337.4	7331.6	7319.9	7305.4	7232.6	7218.0	7165.6	7092.8	7017.1	6938.5
5°	7835.3	7832.4	7800.3	7742.1	7648.9	7488.8	7451.0	7322.8	7151.0	6985.1	6819.1
7.5°	8260.4	8234.1	8173.1	8056.6	7893.5	7675.1	7622.7	7445.1	7209.2	6982.2	6758.0
10°	8571.9	8557.4	8423.5	8263.3	8050.7	7809.1	7747.9	7550.0	7290.8	7002.5	6723.0
12.5°	8749.5	8720.5	8566.1	8374.0	8120.6	7884.8	7823.6	7622.7	7331.6	7002.5	6673.5
15°	8737.9	8717.5	8563.2	8353.5	8097.4	7890.6	7835.3	7634.4	7322.8	6973.5	6609.5
17.5°	8505.0	8513.7	8382.7	8175.9	7966.3	7809.1	7759.6	7573.2	7264.6	6915.2	6533.8
20°	8097.4	8138.1	8050.7	7867.3	7750.9	7643.1	7611.1	7453.8	7174.4	6830.8	6452.3
22.5°	7689.7	7727.6	7692.6	7538.3	7520.8	7456.8	7439.3	7325.8	7095.7	6778.4	6402.8
25°	7389.8	7424.8	7419.0	7284.9	7337.4	7334.5	7319.9	7264.6	7078.2	6778.4	6411.4
27.5°	7308.3	7319.9	7308.3	7186.0	7258.8	7317.0	7305.4	7296.6	7130.7	6862.8	6522.1
30°	7587.8	7570.3	7480.0	7232.6	7299.6	7381.1	7369.4	7375.3	7287.9	7084.0	6769.6
32.5°	8703.0	8624.4	8339.0	7643.1	7465.5	7509.2	7515.0	7611.1	7625.7	7424.8	7154.0
35°	10371.4	10284.0	9914.2	8743.8	7980.9	7829.5	7829.5	7975.0	8062.4	7913.9	7750.9
37.5°	12138.7	12042.7	11844.6	10269.4	9064.1	8385.6	8371.0	8472.9	8598.1	8633.1	8673.8
40°	14147.8	14045.8	14101.2	11981.5	10575.2	9349.4	9142.6	9069.8	9407.6	9631.8	9957.9
42.5°	16346.0	16299.5	16319.9	13888.6	12296.0	10790.6	10496.6	10121.0	10528.6	10927.5	11611.7
45°	18381.3	18422.1	18401.8	15929.7	14211.9	12549.3	12237.8	11509.8	11908.7	12592.9	13708.2
47.5°	20163.3	19994.4	20256.5	18160.0	16357.7	14517.5	14133.2	13157.8	13562.5	14406.9	16293.7
50°	22326.6	22303.4	21919.0	21135.8	18952.0	16494.6	15990.9	14861.1	15490.0	16663.5	19551.9
52.5°	24600.6	24178.5	23826.2	23450.5	21703.5	18521.1	17903.8	16558.6	17755.4	19231.6	23523.4
55°	25066.5	24877.2	25314.0	25945.8	24356.0	20626.3	19907.0	18687.1	20306.0	22166.5	28103.4
57.5°	26062.3	26059.4	26962.0	28088.8	27087.2	22859.5	22134.5	21258.0	23173.9	25529.5	32965.8
60°	26734.9	26924.2	28601.3	30788.0	29768.9	25439.3	24772.4	24225.0	26435.0	29288.4	37496.4
62.5°	27087.2	27343.5	29632.0	31882.7	33559.8	29733.9	29067.1	28278.0	30750.1	33411.3	40146.0
65°	25622.7	26126.4	29471.8	32829.0	36879.1	36695.7	36395.8	35009.9	36145.4	36669.5	39188.1
67.5°	21569.6	22085.0	25980.8	31946.8	39249.2	43410.0	43474.1	41106.9	39464.7	36949.0	32948.4
70°	15367.8	15772.5	18995.7	26784.4	37444.0	47797.9	48016.3	43916.6	38803.8	32767.9	23019.7
72.5°	7296.6	7544.2	10595.5	17432.1	29713.6	43794.4	44216.5	40329.4	32995.0	24260.0	12558.1
75°	2681.7	2757.4	3581.4	7416.0	17234.2	32296.2	32794.1	28909.9	21872.4	12077.6	4783.8
77.5°	1607.3	1656.8	2009.1	3130.0	6778.4	18460.0	19196.6	15723.0	9559.0	4495.6	2352.6
80°	1123.9	1158.8	1441.2	1947.9	3202.9	7034.6	7689.7	6417.3	3808.4	2844.7	1712.0
82.5°	760.0	777.4	1013.2	1316.0	2128.5	2512.8	2710.7	2853.4	2568.1	2116.8	1086.1
85°	497.9	515.4	687.1	867.7	1353.9	1298.6	1327.7	1680.0	1875.1	1438.4	602.7
87.5°	285.3	297.0	413.5	463.0	663.9	550.3	556.2	885.2	1199.6	969.6	366.8
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: P191578

CATALOG NUMBER: GLEON-AF-10-LED-E1-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3	6944.3
2.5°	6918.1	6880.3	6795.9	6743.4	6693.9	6682.2	6661.9	6659.0	6656.0	6656.0	6647.3
5°	6763.8	6699.7	6568.7	6495.9	6434.8	6428.9	6426.1	6440.6	6446.4	6452.3	6443.5
7.5°	6664.8	6577.5	6414.4	6309.6	6236.8	6219.3	6248.4	6315.4	6359.1	6376.6	6367.8
10°	6603.7	6495.9	6306.7	6193.1	6132.0	6123.2	6161.1	6239.7	6329.9	6364.9	6361.9
12.5°	6533.8	6411.4	6210.5	6091.2	6056.3	6073.8	6123.2	6196.0	6289.2	6344.5	6347.4
15°	6463.9	6321.2	6114.5	6009.6	5995.1	6018.4	6065.0	6120.3	6193.1	6248.4	6254.2
17.5°	6379.4	6231.0	6024.3	5916.5	5904.9	5916.5	5919.4	5948.6	5995.1	6047.5	6062.1
20°	6289.2	6137.8	5922.4	5814.6	5762.2	5715.6	5663.2	5669.0	5683.6	5736.0	5747.7
22.5°	6225.2	6073.8	5843.7	5695.2	5555.4	5415.7	5310.9	5296.3	5302.2	5345.8	5360.4
25°	6231.0	6070.8	5823.4	5567.1	5261.3	5037.2	4897.4	4874.2	4871.2	4903.2	4923.7
27.5°	6344.5	6184.4	5899.1	5436.1	4941.1	4609.2	4460.7	4443.2	4419.9	4428.7	4452.0
30°	6597.8	6449.3	6082.5	5302.2	4594.6	4189.9	4035.5	4018.0	3986.0	3971.5	3989.0
32.5°	7011.3	6889.0	6350.4	5174.0	4248.1	3831.8	3674.5	3636.7	3616.3	3598.8	3613.4
35°	7698.4	7646.0	6708.5	5034.2	3942.4	3555.2	3412.5	3354.3	3325.1	3357.1	3380.4
37.5°	8775.8	8804.8	7177.2	4815.8	3706.6	3371.7	3252.4	3185.4	3141.7	3167.9	3194.1
40°	10301.4	10321.9	7695.6	4507.2	3502.7	3263.9	3135.9	3074.7	3013.6	2967.0	2964.1
42.5°	12304.7	12097.9	8205.1	4172.4	3266.9	3197.0	3054.3	2978.6	2885.4	2757.4	2731.2
45°	14680.6	13955.6	8592.3	3788.1	3002.0	3115.5	2964.1	2859.2	2713.7	2573.9	2559.3
47.5°	17417.6	15950.1	8781.6	3389.1	2754.4	2996.1	2853.4	2687.5	2504.1	2434.1	2425.4
50°	20760.2	18317.3	8871.8	3002.0	2539.0	2838.9	2693.3	2498.3	2343.9	2329.4	2320.6
52.5°	24565.8	21164.9	8901.0	2684.5	2361.4	2635.0	2562.3	2373.0	2250.7	2262.4	2262.4
55°	28548.8	24105.6	8505.0	2454.6	2198.3	2425.4	2474.9	2323.5	2221.6	2268.2	2285.7
57.5°	32206.0	26711.6	7258.8	2276.9	2044.0	2265.3	2442.9	2370.1	2300.2	2489.5	2501.1
60°	35012.7	28251.9	5421.5	2116.8	1930.4	2210.0	2527.3	2547.7	2565.2	3016.5	3077.6
62.5°	35600.9	27739.5	3726.9	1991.6	1878.0	2256.5	2681.7	2684.5	2664.2	2978.6	3016.5
65°	32901.8	24498.8	2710.7	1921.7	1834.4	2341.0	2812.7	2751.5	2617.6	2856.4	2786.4
67.5°	26129.2	18457.0	2256.5	1869.2	1770.3	2335.2	2952.4	2812.7	2591.3	2798.1	2684.5
70°	16960.4	11160.4	2009.1	1825.7	1694.6	2224.5	3034.0	2806.9	2515.6	2603.0	2469.1
72.5°	8275.0	4990.6	1843.1	1761.5	1616.0	2070.1	3031.0	2754.4	2437.1	2431.2	2358.4
75°	3237.7	2285.7	1691.7	1665.5	1482.1	1895.5	2949.5	2678.7	2343.9	2250.7	2224.5
77.5°	1895.5	1630.5	1499.5	1522.8	1321.9	1720.8	2830.1	2547.7	2215.8	2105.1	2076.0
80°	1380.2	1220.0	1278.2	1316.0	1129.7	1546.1	2670.0	2387.6	2073.1	2128.5	2087.6
82.5°	885.2	786.1	1036.6	1074.4	940.5	1368.5	2495.3	2218.7	1872.2	1700.5	1659.6
85°	451.3	497.9	771.6	818.2	725.0	1123.9	2282.7	1994.4	1645.1	1415.0	1438.4
87.5°	253.3	340.6	492.0	550.3	512.5	864.8	1851.8	1645.1	1342.3	1091.9	960.9
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)