

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: STREETWORKS

Report Number: P193108

Luminaire Tested: **GAN-AF-10-LED-U-T2-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-T2-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45178.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 419
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: 28.75 FT

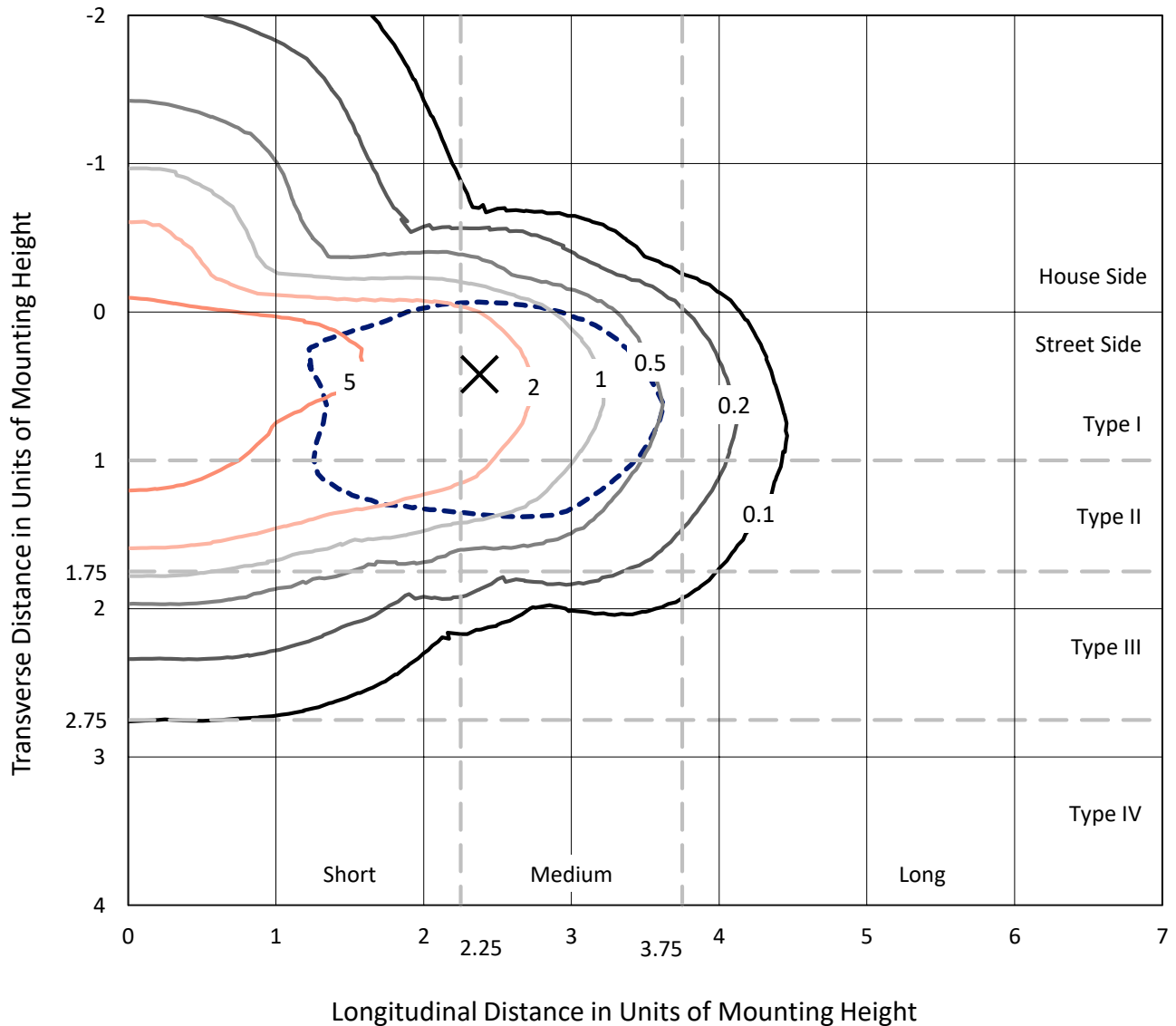


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

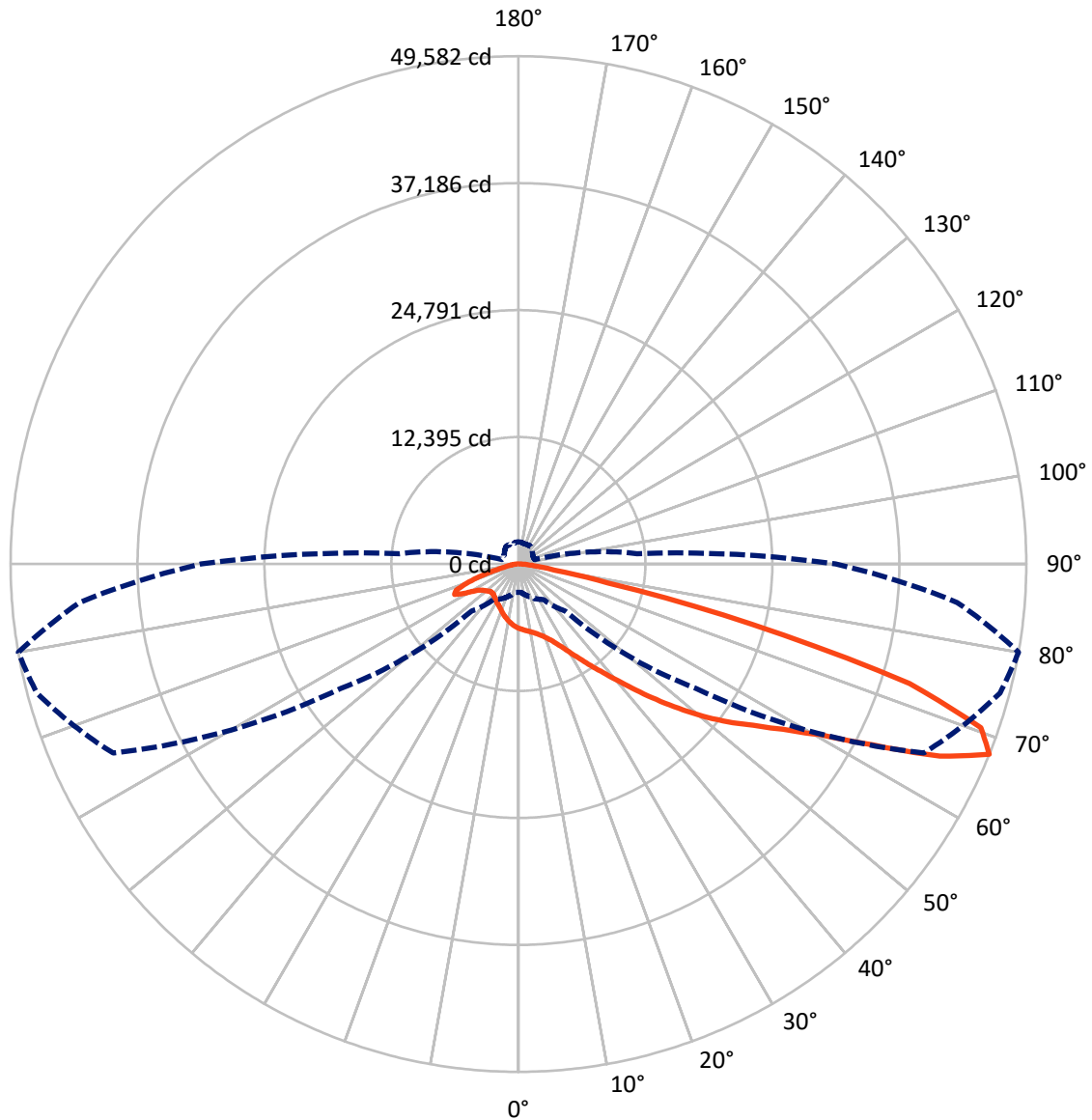


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8320.2	0.0	8320.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	36858.5	0.0	36858.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	45178.7	0.0	45178.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.0	1.3
10°-20°	1667.9	3.7
20°-30°	2760.8	6.1
30°-40°	4515.9	10.0
40°-50°	7291.3	16.1
50°-60°	10526.5	23.3
60°-70°	11616.7	25.7
70°-80°	5354.6	11.9
80°-90°	866.1	1.9
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°	45178.7	100.0
0°-180°	45178.7	100.0



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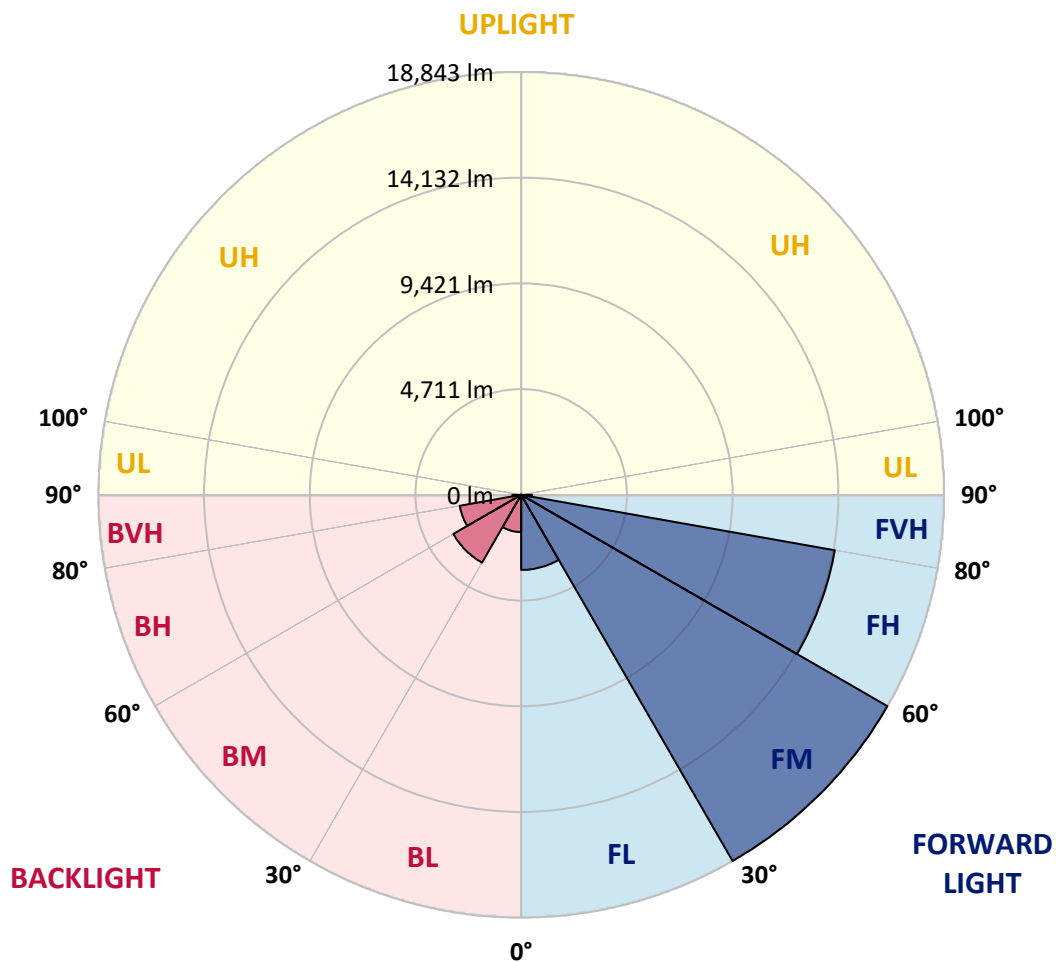
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3347.7	7.4			
FM	(30°-60°)	18842.9	41.7			
FH	(60°-80°)	14191.8	31.4			G5
FVH	(80°-90°)	476.2	1.1			G3/500
BL	(0°-30°)	1660.0	3.7	B3/2500		
BM	(30°-60°)	3490.8	7.7	B3/5000		
BH	(60°-80°)	2779.4	6.2	B4/5000		G4/5000
BVH	(80°-90°)	389.9	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6
2.5°	6866.1	6826.0	6832.6	6821.6	6788.2	6730.4	6668.1	6554.7	6436.8	6374.5	6325.6
5°	7439.9	7428.7	7413.2	7377.6	7293.0	7173.0	7023.9	6823.8	6608.0	6494.6	6385.6
7.5°	7869.2	7862.6	7842.4	7820.2	7738.0	7593.3	7368.7	7084.1	6770.4	6614.7	6445.6
10°	7904.7	7915.9	7931.4	7991.4	8002.5	7924.8	7695.6	7351.0	6939.5	6739.2	6523.6
12.5°	7602.3	7626.8	7686.7	7840.2	8002.5	8098.2	7980.4	7631.2	7137.4	6895.0	6621.3
15°	7202.0	7215.3	7288.6	7499.9	7791.3	8087.2	8198.4	7940.3	7393.1	7095.2	6768.2
17.5°	7030.7	7037.3	7088.4	7228.6	7499.9	7922.5	8320.6	8276.2	7706.8	7344.2	6948.4
20°	6943.9	6959.5	7032.9	7170.8	7342.0	7711.2	8338.4	8638.7	8080.5	7655.6	7175.2
22.5°	7190.8	7184.2	7210.8	7279.7	7424.2	7646.7	8325.1	9012.4	8556.4	8056.0	7471.0
25°	7766.8	7791.3	7744.7	7666.7	7713.4	7869.2	8396.2	9417.2	9152.5	8569.8	7858.0
27.5°	8587.6	8563.0	8494.2	8311.8	8216.1	8282.8	8632.0	9853.1	9893.1	9245.9	8369.6
30°	9406.0	9386.0	9319.3	9096.9	8901.2	8845.5	9090.3	10353.5	10776.1	10057.8	8996.9
32.5°	10255.7	10233.4	10171.2	9948.7	9713.0	9584.0	9741.9	10931.8	11817.1	11027.5	9735.2
35°	11303.3	11261.1	11129.8	10820.6	10589.3	10489.2	10562.6	11659.2	13018.1	12175.2	10631.6
37.5°	12288.6	12353.1	12219.7	11792.6	11492.3	11456.7	11539.1	12546.6	14312.6	13458.5	11661.4
40°	13278.4	13289.4	13169.3	12820.2	12511.1	12453.2	12660.0	13623.1	15840.6	14993.2	12913.6
42.5°	14301.5	14323.7	14121.3	13798.8	13571.9	13583.1	13818.8	14884.2	17593.3	16801.5	14354.8
45°	15513.6	15547.0	15324.6	14902.0	14695.2	15111.1	15013.2	16298.7	19514.9	18856.6	16009.6
47.5°	16781.4	16832.6	16663.5	16267.6	16009.6	16581.3	16207.6	17866.8	21583.4	21060.9	17826.8
50°	17473.2	17546.6	17711.2	17682.2	17626.6	17530.9	17539.9	19548.3	23716.5	23356.2	19695.1
52.5°	17101.7	17099.5	17700.0	18429.6	19208.0	19265.8	19163.5	21321.0	25709.2	25600.3	21454.4
55°	15402.5	15518.1	16427.7	17840.2	19966.5	21294.3	21596.8	23351.7	27666.5	27793.4	23240.4
57.5°	12573.3	12668.9	13896.6	15865.1	18943.4	22499.8	25057.6	26303.2	29855.2	30446.8	25618.1
60°	8527.4	8643.2	9944.3	12308.6	16189.8	21828.2	28351.5	31570.0	32475.2	33820.8	28954.4
62.5°	5011.0	5115.6	6176.5	7764.6	11398.9	18707.6	29797.3	39063.3	36636.7	38912.0	34043.3
65°	3449.8	3520.9	4036.9	4833.2	6550.2	12600.0	28004.7	44236.7	43040.1	45219.7	39944.1
67.5°	2775.7	2766.9	3176.1	3718.8	4217.1	6496.9	21176.4	43651.8	48671.7	49581.5	43006.7
70°	2286.5	2277.5	2555.6	3004.8	3369.7	3658.8	11534.6	36836.9	47524.1	47893.2	40186.4
72.5°	1912.8	1921.7	2099.6	2433.2	2764.7	2755.7	5068.9	25913.9	37386.3	39939.6	32034.9
75°	1614.8	1619.2	1737.1	1972.9	2244.1	2219.7	2749.1	14039.0	21732.4	23509.6	17757.9
77.5°	1374.6	1379.0	1454.6	1585.8	1779.4	1770.4	2006.2	6065.3	9065.8	8954.6	6074.3
80°	1225.6	1225.6	1261.1	1285.6	1392.3	1352.3	1488.0	2913.7	3832.3	3538.7	2424.4
82.5°	960.8	965.3	1183.3	1174.3	1096.5	1045.4	1045.4	1717.1	2030.7	1877.2	1419.1
85°	540.5	538.2	762.8	920.8	965.3	736.2	729.6	960.8	1105.3	974.1	687.2
87.5°	231.3	235.8	353.7	409.2	547.2	458.3	451.5	496.0	562.6	487.1	318.1
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°	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6	6276.6
2.5°	6278.9	6221.0	6094.3	5936.4	5794.0	5700.6	5616.0	5493.8	5500.4	5415.9	5353.6
5°	6274.4	6154.3	5860.6	5511.5	5175.7	4933.3	4750.8	4586.2	4546.3	4468.3	4421.7
7.5°	6278.9	6083.1	5589.3	5031.1	4615.2	4308.2	4152.5	4065.7	4045.8	4019.1	4021.3
10°	6294.4	6018.6	5291.3	4581.8	4145.9	3943.5	3905.7	3932.3	3963.5	3972.3	3974.7
12.5°	6330.1	5960.7	4964.4	4181.5	3852.3	3789.9	3854.5	3945.7	4005.8	4034.6	4032.4
15°	6410.1	5916.3	4650.7	3867.9	3689.9	3723.2	3843.4	3972.3	4059.1	4099.2	4101.4
17.5°	6496.9	5851.8	4328.3	3627.6	3569.8	3654.2	3803.4	3954.6	4061.3	4105.9	4114.7
20°	6610.3	5771.7	3990.1	3447.4	3456.4	3552.0	3692.1	3843.4	3961.3	3999.1	4016.9
22.5°	6759.4	5685.0	3694.4	3300.7	3327.4	3400.8	3509.7	3640.9	3743.3	3761.1	3776.6
25°	6959.5	5591.6	3458.6	3167.2	3178.4	3220.6	3294.0	3371.8	3443.0	3423.0	3438.6
27.5°	7228.6	5511.5	3282.9	3044.9	3024.9	3033.8	3071.6	3096.1	3133.9	3078.3	3084.9
30°	7544.5	5424.7	3147.2	2938.1	2882.6	2867.0	2875.8	2889.3	2918.1	2842.5	2831.4
32.5°	7911.4	5320.3	3020.5	2844.7	2766.9	2735.8	2740.2	2775.7	2886.9	2840.3	2815.8
35°	8338.4	5202.4	2886.9	2742.4	2689.0	2644.5	2640.1	2751.2	3082.7	3053.8	3031.5
37.5°	8838.8	5084.5	2753.6	2626.8	2631.2	2582.3	2566.7	2693.5	3120.6	3007.2	2991.5
40°	9475.0	5022.2	2640.1	2504.4	2560.1	2553.4	2522.2	2586.7	2871.5	2664.7	2637.8
42.5°	10262.4	5031.1	2555.6	2373.2	2475.5	2546.8	2497.7	2500.0	2602.3	2446.7	2422.2
45°	11234.4	5135.6	2495.5	2268.7	2379.8	2540.1	2488.8	2453.3	2462.1	2379.8	2366.5
47.5°	12368.7	5351.4	2453.3	2181.9	2288.7	2515.5	2486.6	2440.0	2419.9	2375.4	2364.3
50°	13629.8	5665.0	2422.2	2099.6	2206.4	2475.5	2488.8	2426.5	2404.4	2386.5	2379.8
52.5°	14868.6	6023.0	2375.4	2028.4	2141.9	2426.5	2495.5	2413.2	2388.7	2375.4	2368.7
55°	16249.9	6470.2	2304.3	1968.5	2088.5	2364.3	2495.5	2393.3	2366.5	2368.7	2366.5
57.5°	18116.0	7193.0	2219.7	1917.3	2024.0	2288.7	2453.3	2370.9	2337.6	2339.8	2342.1
60°	21031.9	8467.5	2117.5	1866.0	1943.9	2199.7	2395.4	2322.1	2288.7	2297.6	2299.8
62.5°	25320.1	10338.0	1983.9	1790.4	1859.4	2104.2	2315.4	2259.8	2226.3	2248.7	2248.7
65°	29777.3	11988.4	1819.3	1694.8	1770.4	1999.6	2215.2	2181.9	2148.6	2199.7	2197.5
67.5°	30976.2	11619.0	1654.8	1590.3	1681.5	1883.8	2095.1	2077.3	2059.5	2148.6	2144.1
70°	27517.6	9328.2	1503.5	1483.5	1583.6	1759.3	1966.2	1966.2	1955.0	2021.8	2006.2
72.5°	20965.1	6614.7	1358.9	1370.1	1472.4	1623.7	1826.0	1841.7	1823.9	1857.2	1843.9
75°	11223.2	3785.5	1214.4	1245.5	1334.5	1485.7	1670.3	1686.0	1674.8	1672.5	1679.2
77.5°	3730.0	1850.6	1063.2	1112.0	1190.0	1343.5	1508.0	1532.5	1505.8	1501.3	1499.1
80°	1661.5	1163.3	896.4	960.8	1029.8	1181.1	1336.7	1356.8	1327.8	1367.8	1316.7
82.5°	1067.6	765.2	718.4	789.6	856.3	1018.7	1165.5	1169.9	1143.2	1327.8	1132.2
85°	518.2	473.7	540.5	605.0	662.7	800.7	965.3	967.5	900.9	820.7	791.8
87.5°	258.0	275.8	360.3	418.1	447.1	549.3	702.9	689.5	660.6	600.5	553.8
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)