

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: P457663

Luminaire Tested: **GLAN-SA9A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38479 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

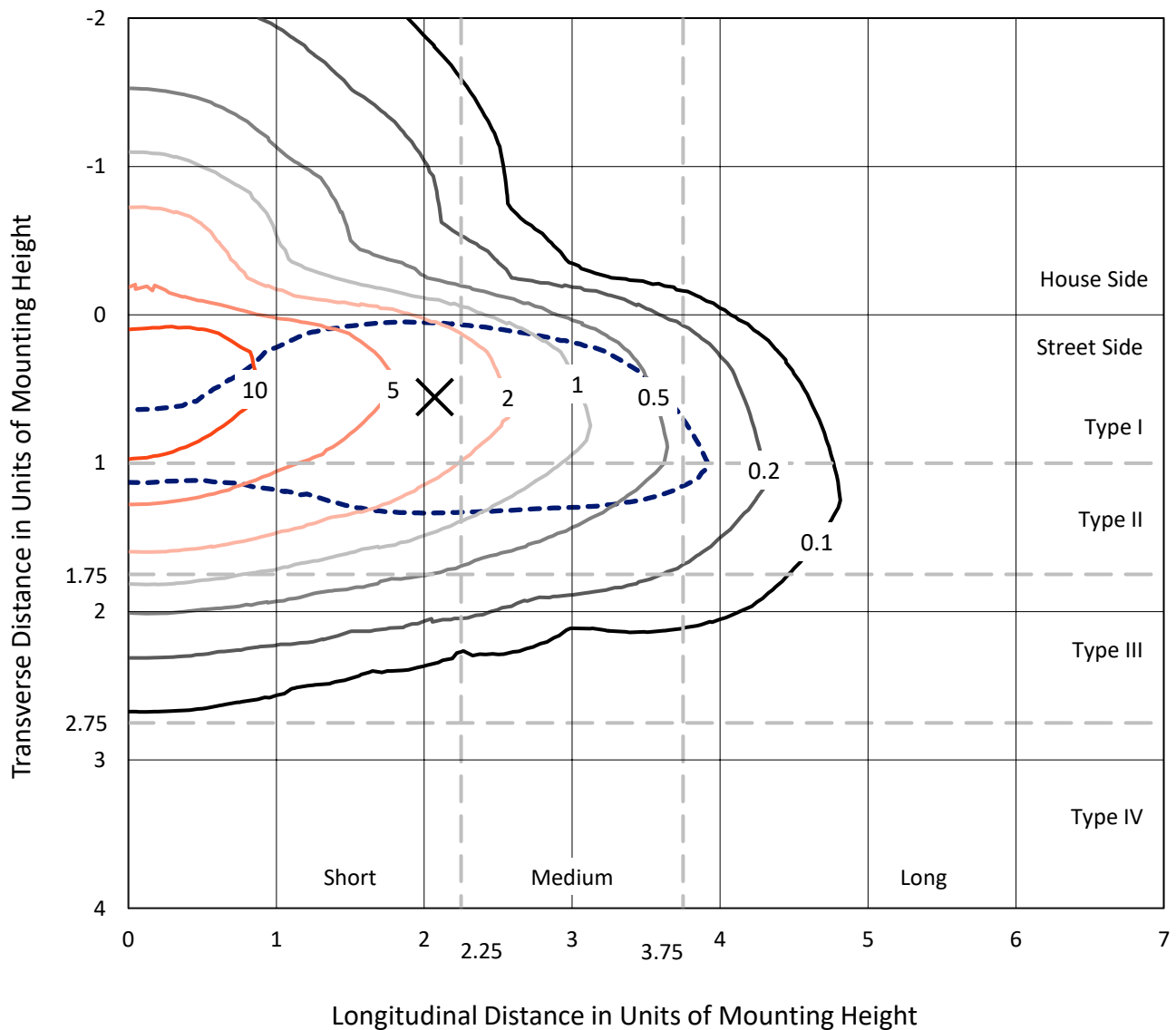


REPORT NUMBER: P457663

CATALOG NUMBER: GLAN-SA9A-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

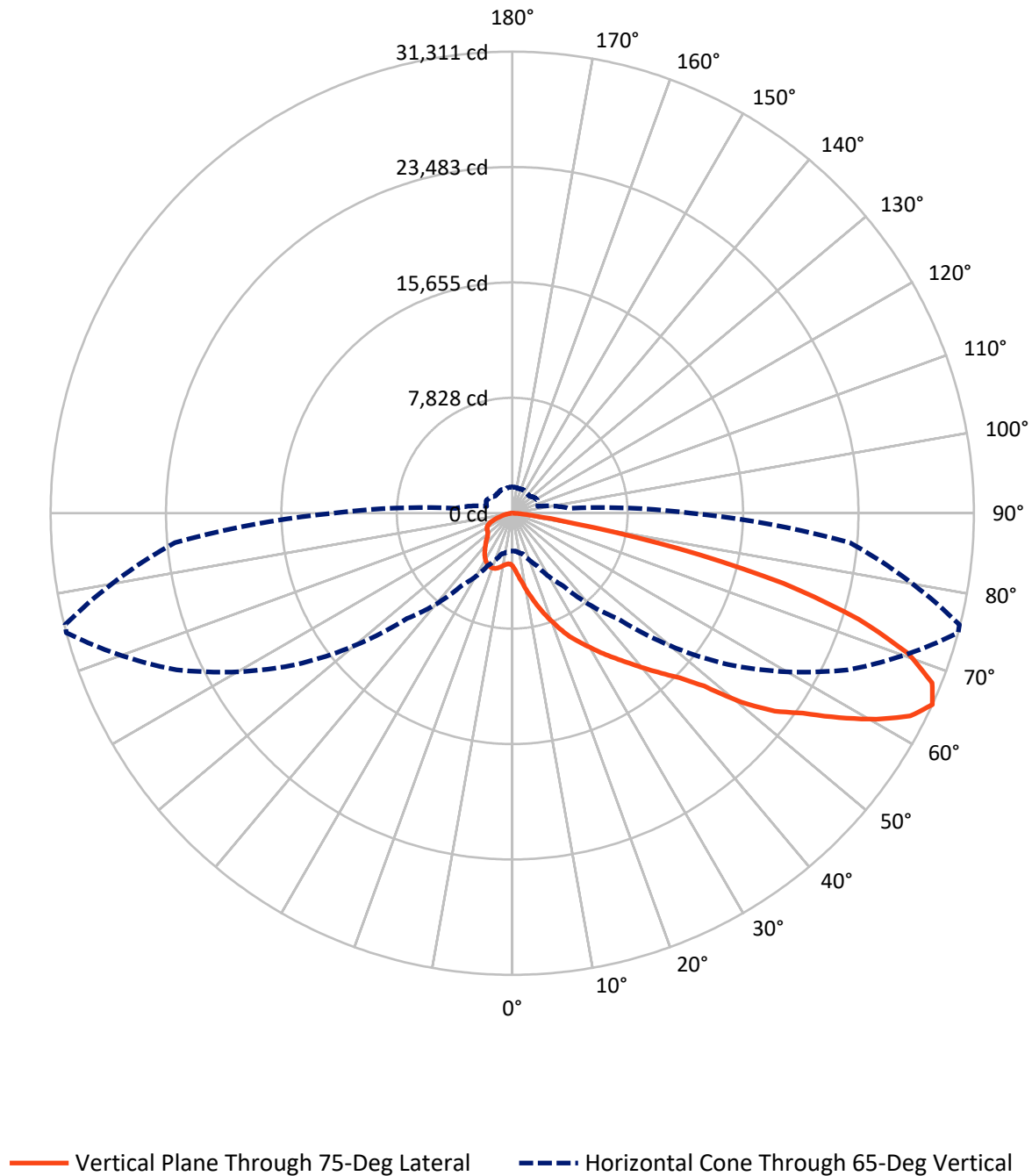


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

REPORT NUMBER: P457663

CATALOG NUMBER: GLAN-SA9A-730-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6468.8	0.0	6468.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32010.2	0.0	32010.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	38479.0	0.0	38479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	1.1
10°-20°	1701.4	4.4
20°-30°	3286.5	8.5
30°-40°	5338.3	13.9
40°-50°	7343.3	19.1
50°-60°	8669.9	22.5
60°-70°	7596.3	19.7
70°-80°	3626.5	9.4
80°-90°	482.6	1.3
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°	38479.0	100.0
0°-180°	38479.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457663

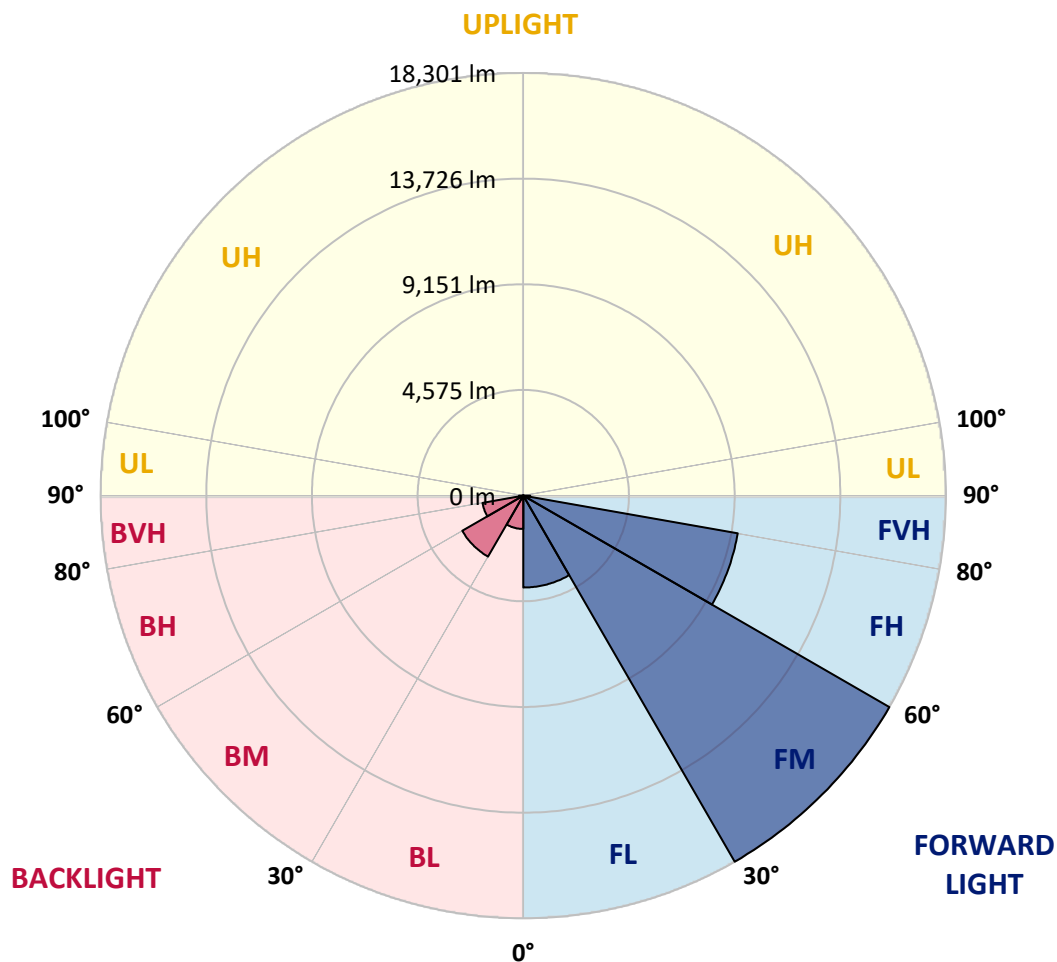
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3978.1	10.3			
FM	(30°-60°)	18301.4	47.6			
FH	(60°-80°)	9429.1	24.5			G4/12000
FVH	(80°-90°)	301.6	0.8			G3/500
BL	(0°-30°)	1444.1	3.8	B3/2500		
BM	(30°-60°)	3050.0	7.9	B3/5000		
BH	(60°-80°)	1793.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	181.0	0.5			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 Short



REPORT NUMBER: P457663

CATALOG NUMBER: GLAN-SA9A-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	4750.2	4718.9	4685.5	4593.7	4495.6	4385.0	4226.4	4074.0	3871.6	3865.3	3715.0
5°	6067.2	6046.3	5898.1	5812.5	5585.1	5282.4	5025.7	4627.1	4257.7	4213.8	3921.6
7.5°	7277.7	7196.3	7139.9	6985.5	6760.1	6371.9	5875.2	5336.7	4718.9	4660.5	4176.3
10°	8189.7	8181.4	8152.2	8018.6	7849.5	7463.4	6912.4	6140.2	5303.3	5188.5	4485.2
12.5°	8872.2	8878.5	8874.3	8872.2	8751.2	8423.5	7826.6	7012.6	5893.9	5812.5	4842.0
15°	9320.9	9383.6	9408.6	9513.0	9523.4	9304.2	8790.8	7855.8	6559.7	6438.7	5226.1
17.5°	9617.3	9648.6	9765.5	9942.9	10086.9	10047.3	9590.2	8636.4	7240.1	7037.7	5624.7
20°	9901.2	9955.4	10045.2	10287.3	10541.9	10658.8	10337.4	9435.7	7914.2	7784.8	6065.1
22.5°	10491.8	10569.0	10600.3	10723.5	10940.5	11147.1	11001.1	10201.7	8653.1	8477.8	6532.6
25°	11491.5	11572.9	11485.3	11456.0	11527.0	11629.3	11598.0	10923.8	9350.2	9099.7	6975.1
27.5°	12793.9	12804.3	12633.2	12470.4	12295.0	12242.9	12146.9	11564.6	9955.4	9746.7	7419.6
30°	14192.2	14142.1	13858.3	13564.0	13267.6	12975.4	12699.9	12182.3	10629.5	10389.5	7855.8
32.5°	15490.4	15463.2	15148.1	14691.0	14190.1	13914.6	13357.4	12806.4	11351.7	11120.0	8304.5
35°	16463.0	16502.6	16156.2	15657.3	15110.5	14866.3	14163.0	13461.7	12098.9	11846.3	8792.9
37.5°	17153.8	17132.9	16826.1	16394.1	15914.1	15701.2	15104.3	14177.6	12902.4	12660.3	9327.2
40°	17400.1	17387.5	17160.1	16844.9	16540.2	16465.1	16089.4	14949.8	13822.8	13539.0	9970.0
42.5°	17243.5	17270.7	17120.4	17034.8	16978.5	17032.7	17068.2	15962.1	14826.7	14565.8	10667.1
45°	16763.5	16748.9	16728.0	16867.9	17185.1	17542.0	18036.6	16918.0	15918.2	15709.5	11602.1
47.5°	15905.7	16010.1	16062.2	16448.4	17141.3	17986.5	19151.1	18199.4	17502.3	17320.8	13027.6
50°	14705.6	14789.1	15098.0	15784.7	16817.8	18153.5	20240.6	20294.9	20144.6	19804.4	14576.2
52.5°	12831.4	12960.8	13597.4	14855.9	16154.1	18084.6	20900.1	22091.8	22290.1	22035.5	16101.9
55°	10733.9	10915.5	11587.5	13238.4	15239.9	17709.0	21355.1	23133.3	23924.3	23688.5	17571.2
57.5°	8680.2	8872.2	9563.0	11161.8	13645.4	16878.3	21653.6	24293.7	26149.2	25842.3	19399.5
60°	6505.5	6705.8	7298.6	8945.3	11374.6	15254.5	21451.1	25299.7	28371.9	28240.4	21229.9
62.5°	4197.1	4418.4	4933.9	6296.8	8742.8	13036.0	20367.9	25854.9	30296.2	30137.6	22565.6
65°	2556.7	2581.7	2865.6	3909.1	5983.7	10093.2	17890.5	25118.1	31310.5	31262.5	22972.6
67.5°	1653.0	1692.6	1822.0	2341.7	3587.7	7010.5	14304.9	22686.7	30717.8	30701.1	22131.5
70°	1396.3	1408.8	1467.2	1579.9	2085.0	4251.4	10045.2	18810.9	28465.8	28465.8	20109.1
72.5°	1248.1	1264.8	1285.6	1321.1	1488.1	2408.5	5994.1	14643.0	24577.6	24740.4	17116.2
75°	1133.3	1129.1	1141.6	1147.9	1269.0	1573.7	3099.3	10829.9	19013.4	18687.8	12395.2
77.5°	970.5	976.8	970.5	997.6	1120.8	1198.0	1573.7	7267.2	11522.8	11101.2	6221.6
80°	797.3	807.7	818.1	834.8	958.0	910.0	945.5	3312.2	4261.8	4172.1	1922.2
82.5°	599.0	613.6	630.3	670.0	753.4	601.1	596.9	1415.0	1538.2	1408.8	707.5
85°	242.1	285.9	432.0	471.7	473.8	329.8	367.3	590.6	628.2	613.6	277.6
87.5°	56.4	66.8	139.8	210.8	194.1	123.1	135.7	192.0	219.1	202.4	93.9
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°	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3646.1	3573.1	3447.9	3351.9	3283.0	3222.5	3184.9	3161.9	3153.6	3151.5	3153.6
5°	3769.3	3639.9	3441.6	3316.4	3247.5	3207.9	3184.9	3182.8	3184.9	3187.0	3180.7
7.5°	3938.3	3752.6	3493.8	3376.9	3324.7	3295.5	3285.1	3280.9	3283.0	3280.9	3280.9
10°	4163.7	3909.1	3596.1	3475.0	3431.2	3397.8	3381.1	3370.7	3362.3	3354.0	3349.8
12.5°	4412.1	4082.3	3706.7	3589.8	3527.2	3475.0	3437.4	3410.3	3391.5	3372.7	3368.6
15°	4689.7	4266.0	3829.8	3667.0	3577.3	3500.0	3435.4	3391.5	3358.1	3331.0	3328.9
17.5°	4954.8	4439.2	3913.3	3702.5	3571.0	3462.5	3376.9	3316.4	3274.6	3239.2	3235.0
20°	5238.6	4604.1	3950.9	3679.5	3508.4	3376.9	3264.2	3191.2	3143.2	3103.5	3097.2
22.5°	5524.5	4744.0	3946.7	3606.5	3399.9	3245.4	3126.5	3049.2	2992.9	2953.2	2938.6
25°	5797.9	4856.7	3894.5	3489.6	3249.6	3088.9	2967.8	2896.9	2846.8	2798.8	2798.8
27.5°	6044.2	4923.4	3796.4	3347.7	3095.2	2926.1	2830.1	2765.4	2719.5	2688.2	2669.4
30°	6286.3	4954.8	3662.8	3168.2	2932.4	2788.4	2711.1	2673.6	2631.8	2596.3	2592.2
32.5°	6503.4	4948.5	3495.9	2992.9	2777.9	2675.6	2644.3	2615.1	2571.3	2521.2	2508.7
35°	6714.2	4906.7	3297.6	2800.9	2648.5	2608.9	2617.2	2575.5	2496.2	2433.5	2423.1
37.5°	6943.7	4831.6	3080.5	2644.3	2540.0	2577.6	2598.4	2506.6	2377.2	2279.1	2256.1
40°	7208.8	4746.0	2855.1	2487.8	2454.4	2548.3	2548.3	2379.3	2201.9	2141.4	2124.7
42.5°	7519.8	4675.1	2667.3	2356.3	2383.5	2477.4	2466.9	2210.2	2137.2	2105.9	2097.5
45°	8012.3	4650.0	2473.2	2241.5	2325.0	2393.9	2308.3	2151.8	2110.0	2085.0	2076.7
47.5°	8790.8	4679.3	2302.1	2156.0	2258.2	2310.4	2130.9	2112.1	2082.9	2047.4	2043.3
50°	9513.0	4652.1	2181.0	2108.0	2199.8	2210.2	2057.9	2064.1	2047.4	2007.8	1999.4
52.5°	10103.6	4566.6	2103.8	2082.9	2149.7	2034.9	1989.0	2012.0	2005.7	1955.6	1947.3
55°	10752.7	4514.4	2066.2	2082.9	2116.3	1882.6	1924.3	1957.7	1949.3	1913.9	1911.8
57.5°	11539.5	4524.8	2039.1	2089.2	2082.9	1805.3	1859.6	1899.3	1897.2	1886.7	1886.7
60°	12345.1	4529.0	1997.3	2087.1	2043.3	1744.8	1792.8	1849.2	1853.3	1859.6	1859.6
62.5°	12612.3	4347.4	1915.9	2049.5	1955.6	1686.4	1730.2	1807.4	1803.2	1819.9	1822.0
65°	12113.5	3844.4	1794.9	1964.0	1842.9	1644.6	1682.2	1753.2	1730.2	1774.0	1782.4
67.5°	11026.1	3180.7	1607.1	1809.5	1717.7	1600.8	1650.9	1678.0	1636.3	1721.8	1723.9
70°	9529.7	2483.6	1369.1	1590.4	1575.8	1554.9	1625.8	1584.1	1525.7	1630.0	1609.1
72.5°	7968.5	1897.2	1093.6	1300.3	1385.8	1486.0	1582.0	1463.1	1381.7	1413.0	1375.4
75°	5985.8	1402.5	878.7	1018.5	1154.2	1387.9	1542.4	1317.0	1191.7	1162.5	1154.2
77.5°	3051.3	916.2	657.4	761.8	866.1	1254.3	1488.1	1145.8	987.2	941.3	920.4
80°	1089.5	569.8	463.3	525.9	584.4	1079.0	1300.3	947.5	766.0	757.6	766.0
82.5°	505.1	367.3	311.0	344.4	346.5	720.0	991.4	707.5	582.3	884.9	747.2
85°	217.1	183.7	175.3	171.1	158.6	321.4	557.3	379.9	592.7	265.1	244.2
87.5°	64.7	73.0	64.7	48.0	35.5	35.5	56.4	20.9	14.6	10.4	10.4
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)