

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: P318020

Luminaire Tested: **GAN-SA6D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38085 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

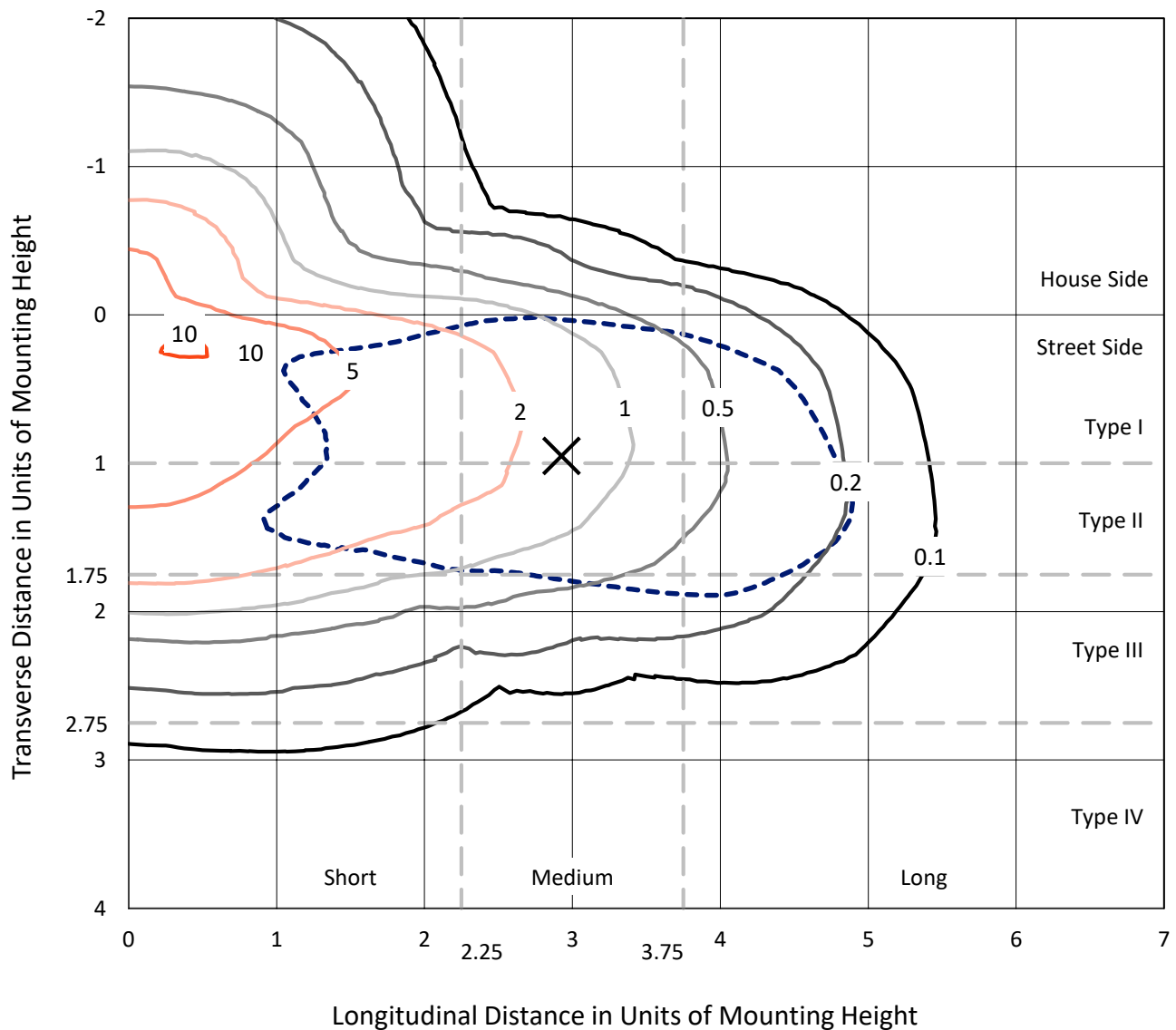
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

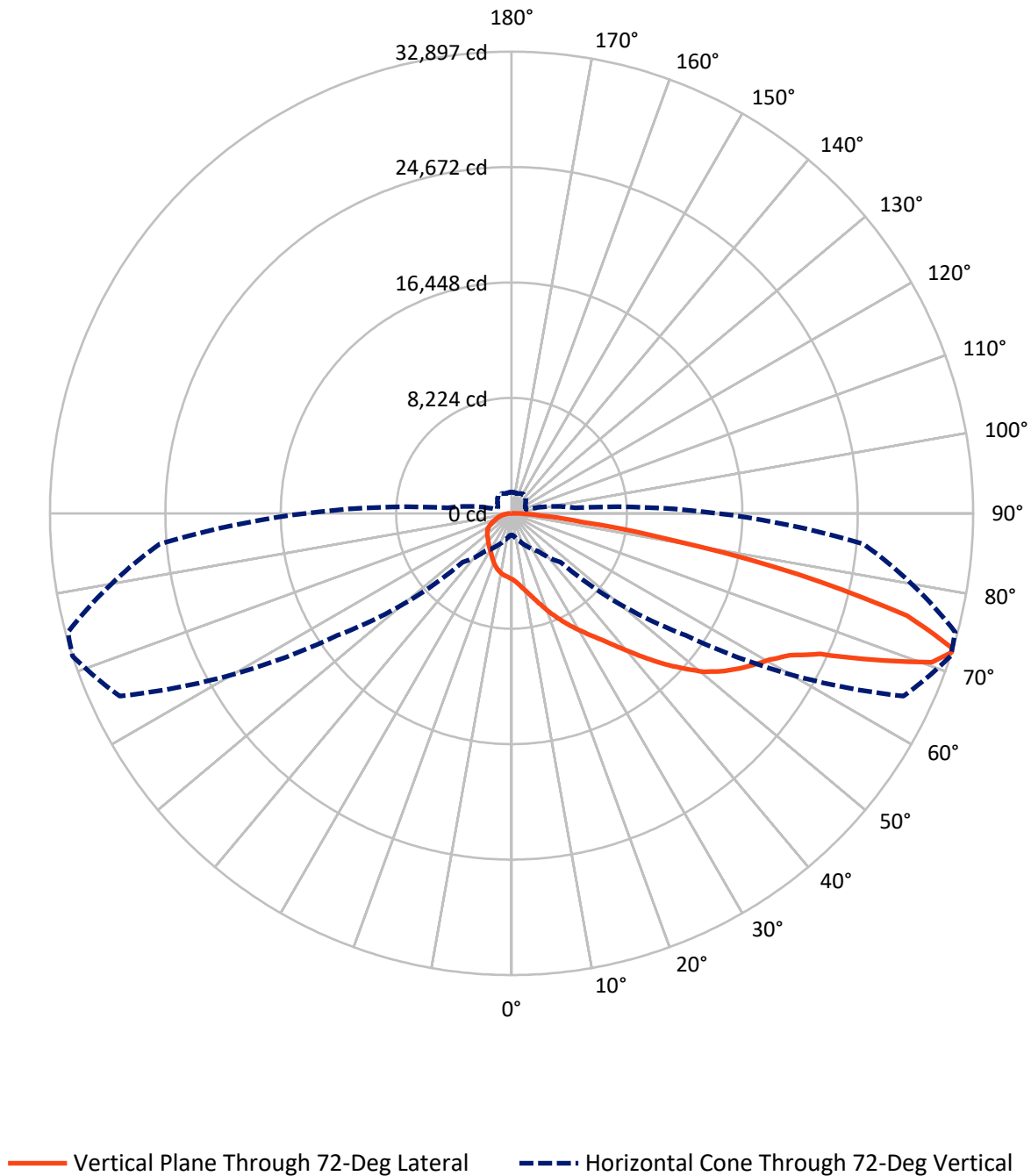
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7065.0	0.0	7065.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31020.0	0.0	31020.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	38085.0	0.0	38085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.5	1.2
10°-20°	1517.2	4.0
20°-30°	2658.6	7.0
30°-40°	3941.8	10.4
40°-50°	5765.3	15.1
50°-60°	7932.9	20.8
60°-70°	8831.7	23.2
70°-80°	5984.4	15.7
80°-90°	983.6	2.6
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°	38085.0	100.0
0°-180°	38085.0	100.0

Coefficient of Utilization



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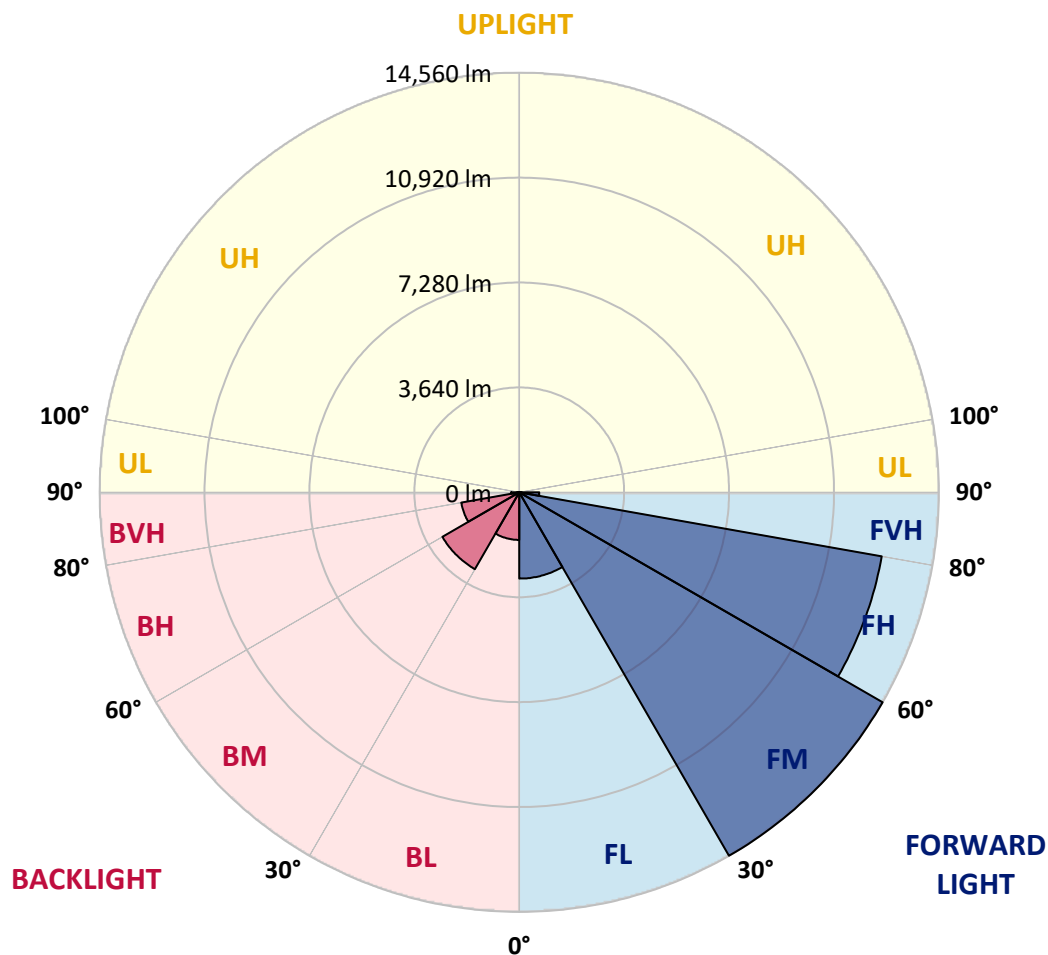
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2993.7	7.9			
FM	(30°-60°)	14560.4	38.2			
FH	(60°-80°)	12772.1	33.5			G5
FVH	(80°-90°)	693.8	1.8			G4/750
BL	(0°-30°)	1651.5	4.3	B3/2500		
BM	(30°-60°)	3079.7	8.1	B3/5000		
BH	(60°-80°)	2044.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	289.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4
2.5°	5175.9	5168.0	5140.5	5140.5	5088.0	5043.4	4959.5	4903.1	4836.3	4812.6	4734.0
5°	5676.8	5679.5	5645.4	5621.8	5544.4	5450.0	5307.0	5177.2	5047.4	4994.9	4833.6
7.5°	6097.8	6092.5	6083.3	6063.7	5991.6	5894.5	5701.7	5509.0	5317.5	5238.8	4960.8
10°	6367.9	6379.7	6387.6	6396.8	6366.6	6297.1	6114.8	5880.1	5629.6	5522.1	5112.9
12.5°	6504.3	6525.3	6562.0	6624.9	6674.8	6666.9	6534.5	6285.3	5987.6	5852.5	5303.1
15°	6584.3	6611.8	6669.5	6782.3	6922.6	7002.6	6967.2	6741.6	6409.9	6243.3	5535.2
17.5°	6634.1	6656.4	6745.6	6896.4	7104.9	7317.3	7410.4	7221.6	6887.2	6697.1	5801.4
20°	6668.2	6685.3	6796.7	6973.8	7243.9	7582.2	7841.9	7794.7	7413.1	7166.5	6079.4
22.5°	6744.3	6758.7	6864.9	7043.3	7342.2	7778.9	8257.6	8328.4	7967.8	7688.4	6377.1
25°	6956.7	6956.7	7045.9	7170.5	7451.1	7949.4	8609.0	8922.4	8534.3	8209.0	6652.5
27.5°	7361.9	7358.0	7390.8	7434.0	7646.5	8122.5	8922.4	9447.0	9121.7	8766.4	6920.0
30°	7841.9	7868.1	7872.0	7851.0	7950.7	8338.9	9212.2	10000.3	9713.2	9330.2	7194.1
32.5°	8459.5	8476.6	8456.9	8387.4	8373.0	8645.7	9496.8	10580.0	10353.1	9919.0	7444.5
35°	9243.7	9210.9	9149.3	9007.7	8872.6	9056.2	9822.0	11159.6	11071.7	10631.1	7789.4
37.5°	10084.3	10085.6	10009.5	9688.2	9502.0	9580.7	10270.5	11816.6	11941.1	11478.2	8231.3
40°	10758.3	10793.7	10840.9	10418.7	10177.4	10286.2	10840.9	12578.5	12969.2	12482.7	8807.0
42.5°	11229.1	11269.7	11403.5	11138.6	10888.1	11090.1	11512.3	13391.5	14123.2	13642.0	9481.1
45°	11727.4	11749.7	11844.1	11730.0	11570.0	12025.1	12269.0	14233.4	15344.1	14877.2	10235.1
47.5°	12251.9	12275.5	12372.6	12296.5	12212.6	12898.4	13058.4	15026.7	16513.8	16234.5	11040.2
50°	12899.7	12915.5	13007.3	12869.6	12895.8	13556.7	13763.9	15754.5	17739.9	17454.1	11848.0
52.5°	13783.6	13787.5	13914.7	13790.1	13666.9	14039.3	14371.1	16440.4	18701.1	18566.1	12655.8
55°	14476.0	14517.9	14934.9	14908.7	14837.9	14477.3	14878.6	17093.4	19558.8	19623.0	13513.4
57.5°	14034.1	14198.0	15042.5	15637.8	16217.4	15567.0	15564.4	17829.1	20356.1	20660.3	14456.3
60°	12291.3	12514.2	13758.7	15079.2	16892.8	17463.2	16988.5	18727.4	21161.2	21688.4	15637.8
62.5°	8778.2	9145.3	10831.7	12940.4	15967.0	18719.5	19886.6	20152.8	22256.2	22879.1	17173.4
65°	4437.6	4715.6	6129.2	8669.3	12756.8	17898.6	23036.5	23273.8	24159.0	24712.4	19537.8
67.5°	2696.1	2801.0	3490.8	4821.8	7820.9	13942.3	24064.6	28475.9	27841.2	28135.0	22909.3
70°	1986.7	2064.1	2494.2	3202.3	4497.9	8181.5	20909.5	32188.4	31771.4	31738.6	25400.8
72°	1547.4	1603.8	1984.1	2587.3	3288.9	4908.4	15155.3	30818.0	32896.5	32731.3	25172.6
72.5°	1467.4	1517.2	1863.4	2435.2	3107.9	4449.4	13626.2	29893.5	32815.2	32740.4	24877.6
75°	1155.3	1190.7	1379.5	1883.1	2432.6	2524.3	7466.8	23166.3	29110.6	30321.0	22375.5
77.5°	956.0	961.2	1060.9	1370.4	1896.2	1784.7	3667.8	16073.2	20845.2	22176.2	15850.3
80°	778.9	785.5	832.7	961.2	1434.6	1320.5	1741.5	9242.4	11671.0	11685.4	7537.6
82.5°	620.3	621.6	674.0	702.9	1030.7	944.2	997.9	4339.3	5099.8	4905.8	2709.2
85°	436.7	427.5	658.3	577.0	674.0	605.8	550.8	1717.9	2108.6	2016.9	848.4
87.5°	145.6	150.8	292.4	373.7	393.4	343.6	245.2	658.3	796.0	789.4	268.8
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°	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4	4685.4
2.5°	4709.1	4667.1	4605.5	4537.3	4483.5	4428.4	4387.8	4366.8	4343.2	4323.5	4347.1
5°	4758.9	4680.2	4549.1	4420.6	4326.1	4242.2	4181.9	4150.4	4121.6	4101.9	4104.5
7.5°	4840.2	4713.0	4492.7	4305.2	4174.0	4083.5	4021.9	4000.9	3982.6	3977.3	3983.9
10°	4926.7	4739.2	4417.9	4168.8	4019.3	3944.5	3917.0	3931.4	3944.5	3956.3	3969.5
12.5°	5025.1	4762.8	4309.1	4008.8	3881.6	3852.7	3880.3	3943.2	3989.1	4016.7	4033.7
15°	5153.6	4783.8	4183.2	3848.8	3763.6	3796.4	3889.5	3998.3	4078.3	4129.4	4137.3
17.5°	5271.6	4782.5	4021.9	3687.5	3667.8	3763.6	3903.9	4057.3	4164.8	4237.0	4251.4
20°	5393.6	4747.1	3834.4	3530.2	3570.8	3728.2	3910.4	4095.3	4225.2	4309.1	4328.8
22.5°	5507.7	4685.4	3628.5	3387.2	3489.5	3681.0	3885.5	4073.0	4202.9	4271.1	4292.0
25°	5585.0	4577.9	3420.0	3266.6	3417.4	3623.3	3804.2	3955.0	4052.1	4086.2	4091.4
27.5°	5624.4	4437.6	3223.3	3161.7	3342.6	3528.8	3653.4	3728.2	3755.7	3753.1	3747.8
30°	5629.6	4252.7	3054.1	3076.4	3256.1	3389.8	3448.8	3434.4	3399.0	3338.7	3343.9
32.5°	5612.6	4044.2	2912.5	2995.1	3145.9	3220.7	3223.3	3153.8	3059.4	2963.6	2937.4
35°	5617.8	3839.6	2787.9	2903.3	3012.2	3045.0	3014.8	2912.5	2784.0	2660.7	2634.5
37.5°	5675.5	3661.3	2680.4	2797.1	2864.0	2871.9	2828.6	2721.0	2626.6	2506.0	2495.5
40°	5813.2	3534.1	2578.1	2677.8	2715.8	2719.7	2658.1	2582.0	2589.9	2525.7	2524.3
42.5°	6061.1	3479.0	2487.6	2553.2	2576.8	2584.7	2537.5	2488.9	2557.1	2515.2	2500.7
45°	6381.0	3492.1	2411.6	2431.2	2474.5	2511.2	2482.4	2423.4	2449.6	2267.3	2207.0
47.5°	6750.8	3576.0	2351.2	2326.3	2401.1	2470.6	2426.0	2336.8	2243.7	2062.8	2028.7
50°	7183.6	3705.9	2296.2	2222.7	2321.1	2415.5	2370.9	2243.7	2103.4	2015.5	2003.7
52.5°	7634.7	3864.5	2241.1	2108.6	2220.1	2373.5	2351.2	2222.7	2049.6	1963.1	1947.4
55°	8146.1	4024.5	2171.6	1976.2	2111.3	2353.9	2342.1	2146.7	2009.0	1960.5	1948.7
57.5°	8782.1	4206.8	2079.8	1838.5	2009.0	2283.1	2246.3	2100.8	1967.0	1930.3	1926.4
60°	9610.9	4475.6	1947.4	1691.6	1884.4	2174.2	2166.3	2033.9	1900.1	1873.9	1868.7
62.5°	10854.0	4920.2	1765.1	1544.8	1745.4	1989.3	2061.4	1943.4	1829.3	1828.0	1830.6
65°	12781.7	5589.0	1567.1	1416.3	1605.1	1833.3	1939.5	1850.3	1757.2	1783.4	1787.4
67.5°	15016.3	6143.7	1373.0	1290.4	1462.2	1685.1	1829.3	1757.2	1661.5	1729.7	1731.0
70°	15759.8	5648.0	1202.5	1165.8	1314.0	1542.1	1710.0	1654.9	1557.9	1626.1	1619.5
72°	14666.1	4559.6	1092.4	1071.4	1202.5	1424.1	1603.8	1559.2	1463.5	1509.4	1492.3
72.5°	14321.2	4347.1	1064.8	1047.8	1172.3	1394.0	1576.2	1535.6	1439.9	1479.2	1463.5
75°	12775.2	3775.4	915.3	919.3	1022.9	1247.1	1421.5	1408.4	1310.0	1314.0	1308.7
77.5°	9266.0	2768.3	771.1	797.3	870.7	1096.3	1265.5	1257.6	1150.1	1130.4	1126.4
80°	4299.9	1412.3	628.1	639.9	716.0	916.6	1079.2	1068.7	982.2	957.3	942.9
82.5°	1472.6	671.4	472.1	480.0	554.7	738.3	936.3	929.7	857.6	809.1	778.9
85°	525.9	334.4	330.5	322.6	396.0	580.9	815.7	780.3	674.0	574.4	571.7
87.5°	170.5	142.9	170.5	169.2	230.8	393.4	592.7	504.9	489.1	406.5	398.6
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)