

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: P318019

Luminaire Tested: **GAN-SA5D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318019
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-SA5D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 31825 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

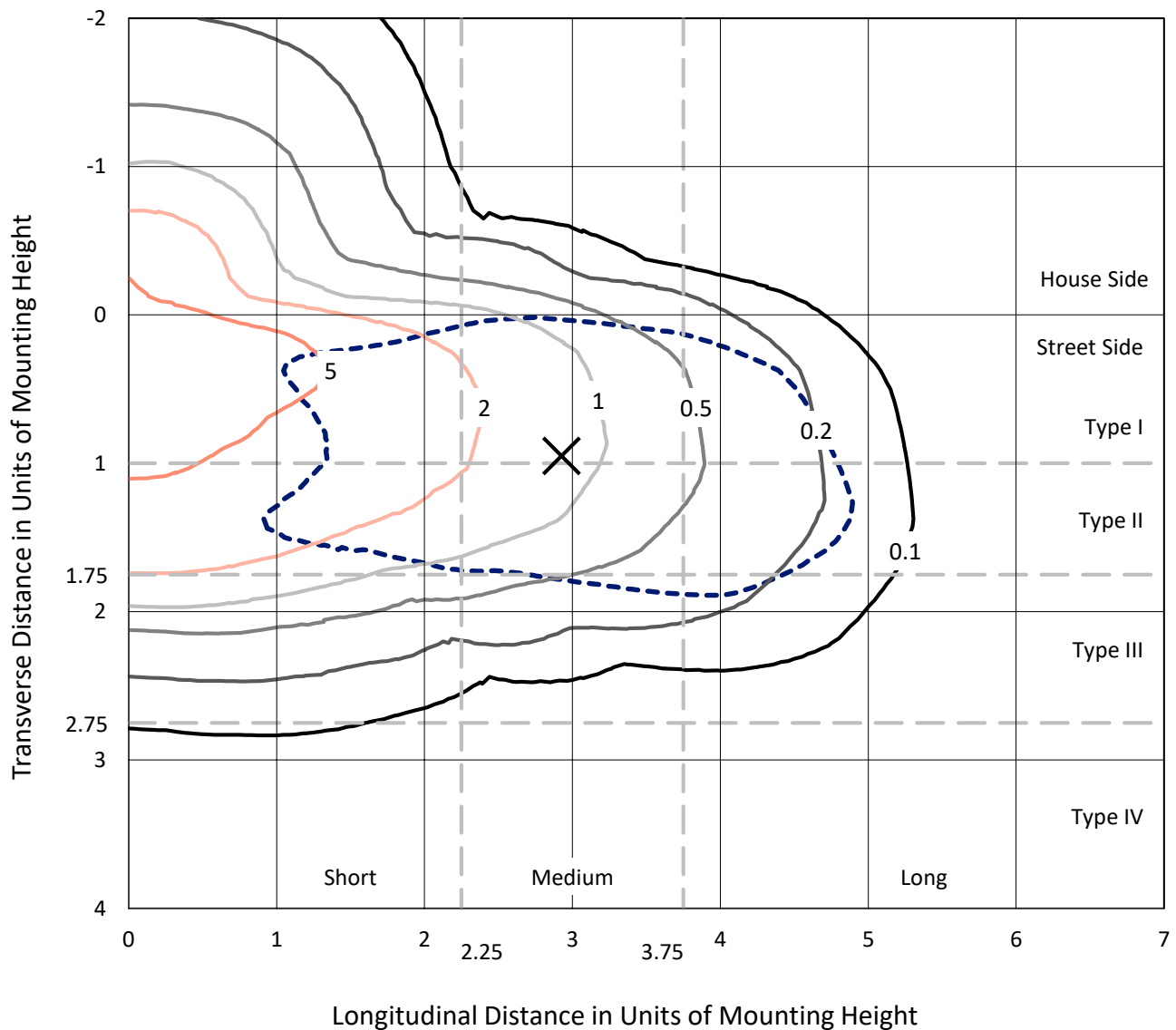
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

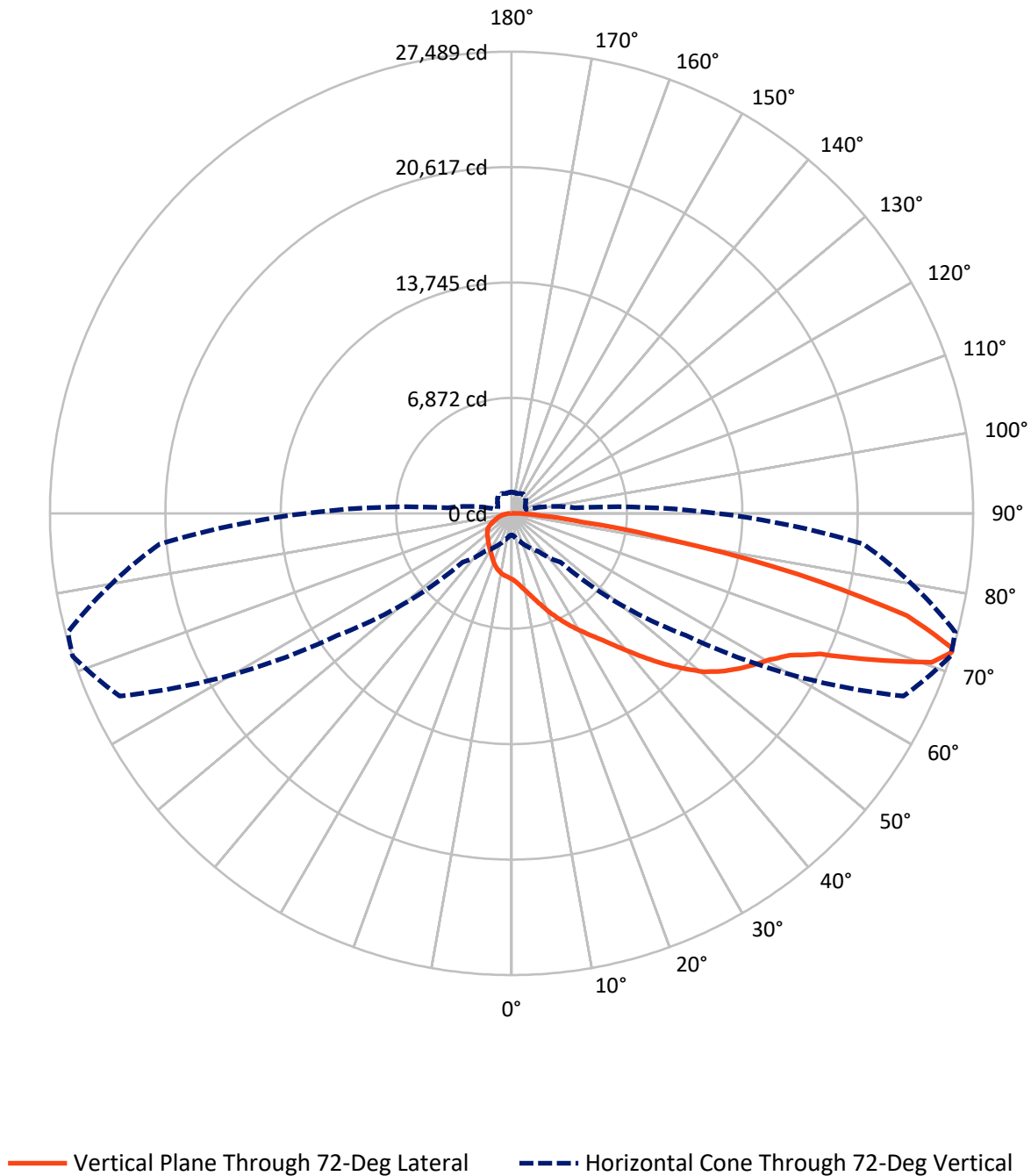
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	5903.8	0.0	5903.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25921.3	0.0	25921.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	31825.0	0.0	31825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.3	1.2
10°-20°	1267.8	4.0
20°-30°	2221.6	7.0
30°-40°	3293.9	10.4
40°-50°	4817.6	15.1
50°-60°	6629.0	20.8
60°-70°	7380.1	23.2
70°-80°	5000.7	15.7
80°-90°	821.9	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°	31825.0	100.0
0°-180°	31825.0	100.0

Coefficient of Utilization



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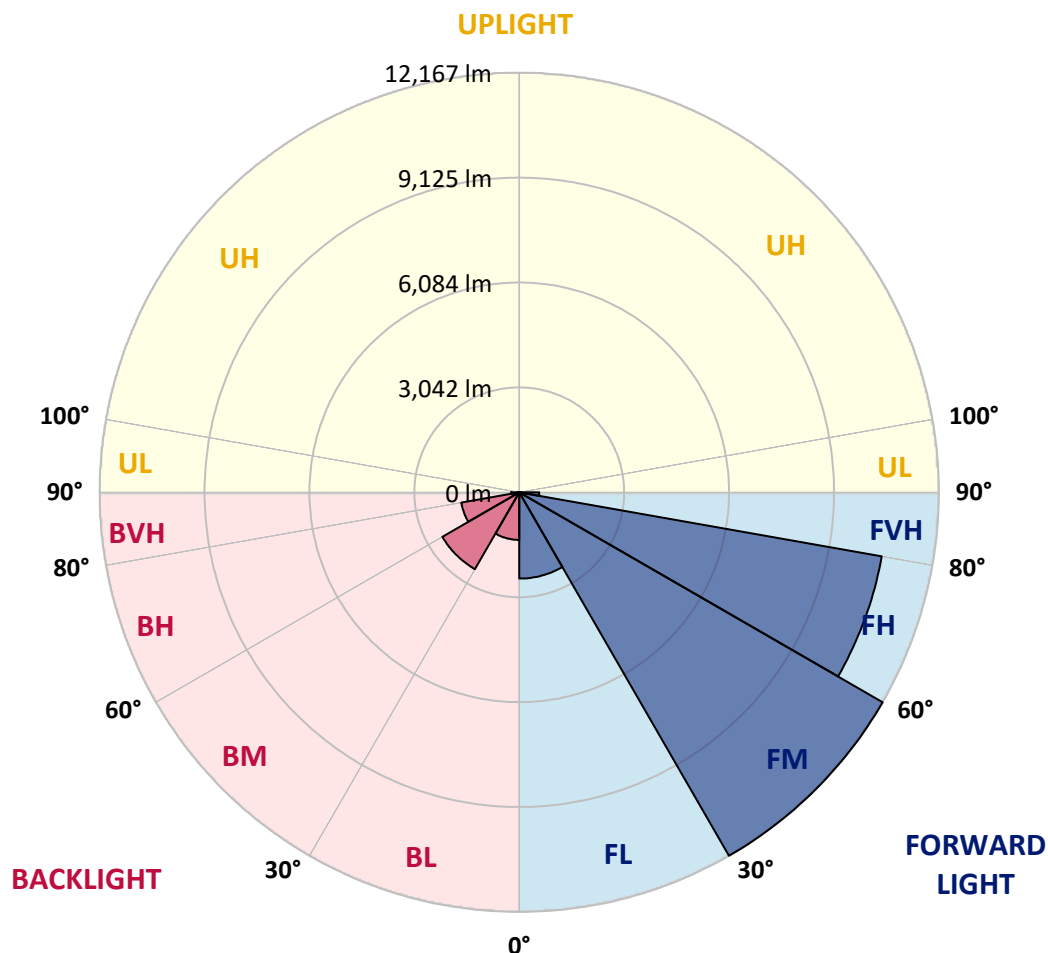
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2501.6	7.9			
FM	(30°-60°)	12167.1	38.2			
FH	(60°-80°)	10672.8	33.5			G4/12000
FVH	(80°-90°)	579.8	1.8			G4/750
BL	(0°-30°)	1380.1	4.3	B3/2500		
BM	(30°-60°)	2573.5	8.1	B3/5000		
BH	(60°-80°)	1708.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	242.2	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3
2.5°	4325.1	4318.6	4295.5	4295.5	4251.7	4214.5	4144.3	4097.2	4041.3	4021.6	3955.8
5°	4743.7	4745.9	4717.4	4697.7	4633.1	4554.2	4434.7	4326.2	4217.7	4173.9	4039.1
7.5°	5095.5	5091.1	5083.4	5067.0	5006.7	4925.6	4764.6	4603.5	4443.5	4377.7	4145.4
10°	5321.2	5331.1	5337.7	5345.3	5320.1	5262.0	5109.7	4913.6	4704.3	4614.4	4272.5
12.5°	5435.2	5452.7	5483.4	5536.0	5577.6	5571.1	5460.4	5252.2	5003.4	4890.6	4431.4
15°	5502.0	5525.0	5573.3	5667.5	5784.7	5851.6	5822.0	5633.5	5356.3	5217.1	4625.4
17.5°	5543.7	5562.3	5636.8	5762.8	5937.1	6114.6	6192.4	6034.6	5755.2	5596.3	4847.8
20°	5572.2	5586.4	5679.5	5827.5	6053.2	6335.9	6552.9	6513.5	6194.6	5988.6	5080.1
22.5°	5635.7	5647.8	5736.5	5885.6	6135.4	6500.3	6900.3	6959.4	6658.1	6424.7	5328.9
25°	5813.2	5813.2	5887.8	5991.9	6226.4	6642.8	7193.9	7455.8	7131.5	6859.7	5559.0
27.5°	6151.8	6148.6	6175.9	6212.1	6389.6	6787.4	7455.8	7894.2	7622.4	7325.4	5782.6
30°	6552.9	6574.8	6578.1	6560.6	6643.9	6968.2	7698.0	8356.6	8116.6	7796.6	6011.6
32.5°	7069.0	7083.3	7066.8	7008.8	6996.7	7224.6	7935.8	8840.9	8651.4	8288.7	6220.9
35°	7724.3	7696.9	7645.4	7527.1	7414.2	7567.6	8207.6	9325.3	9251.9	8883.7	6509.1
37.5°	8426.7	8427.8	8364.3	8095.8	7940.2	8005.9	8582.3	9874.3	9978.4	9591.6	6878.4
40°	8990.0	9019.6	9059.0	8706.2	8504.5	8595.5	9059.0	10510.9	10837.5	10431.0	7359.4
42.5°	9383.4	9417.3	9529.1	9307.8	9098.5	9267.2	9620.1	11190.3	11801.8	11399.6	7922.7
45°	9799.8	9818.4	9897.3	9802.0	9668.3	10048.5	10252.3	11893.8	12822.0	12431.9	8552.7
47.5°	10238.1	10257.8	10338.9	10275.3	10205.2	10778.3	10912.0	12556.8	13799.5	13566.0	9225.6
50°	10779.4	10792.6	10869.3	10754.2	10776.1	11328.4	11501.6	13165.0	14824.0	14585.1	9900.6
52.5°	11518.0	11521.3	11627.6	11523.5	11420.5	11731.7	12008.9	13738.1	15627.3	15514.4	10575.6
55°	12096.6	12131.6	12480.1	12458.2	12399.0	12097.7	12433.0	14283.8	16343.9	16397.6	11292.3
57.5°	11727.3	11864.3	12570.0	13067.5	13551.8	13008.3	13006.1	14898.5	17010.2	17264.4	12080.1
60°	10271.0	10457.3	11497.2	12600.6	14116.1	14592.8	14196.1	15649.2	17683.0	18123.5	13067.5
62.5°	7335.3	7642.1	9051.3	10813.4	13342.5	15642.6	16617.9	16840.3	18598.0	19118.5	14350.6
65°	3708.2	3940.5	5121.8	7244.4	10660.0	14956.6	19250.0	19448.3	20188.0	20650.4	16326.4
67.5°	2253.0	2340.6	2917.0	4029.3	6535.4	11650.6	20109.1	23795.4	23265.0	23510.5	19143.7
70°	1660.1	1724.8	2084.2	2676.0	3758.6	6836.7	17472.6	26897.6	26549.1	26521.7	21225.7
72°	1293.0	1340.2	1658.0	2162.0	2748.3	4101.6	12664.2	25752.5	27489.3	27351.3	21035.0
72.5°	1226.2	1267.8	1557.1	2034.9	2597.1	3718.1	11386.5	24979.9	27421.4	27358.9	20788.5
75°	965.4	995.0	1152.8	1573.6	2032.7	2109.4	6239.5	19358.5	24325.7	25337.2	18697.7
77.5°	798.8	803.2	886.5	1145.1	1584.5	1491.4	3065.0	13431.3	17418.9	18531.1	13245.0
80°	650.9	656.4	695.8	803.2	1198.8	1103.5	1455.2	7723.2	9752.6	9764.7	6298.7
82.5°	518.3	519.4	563.2	587.4	861.3	789.0	833.9	3626.0	4261.6	4099.4	2263.9
85°	364.9	357.2	550.1	482.2	563.2	506.3	460.2	1435.5	1762.1	1685.3	709.0
87.5°	121.6	126.0	244.4	312.3	328.7	287.1	204.9	550.1	665.2	659.7	224.6
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°	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3	3915.3
2.5°	3935.0	3900.0	3848.5	3791.5	3746.6	3700.5	3666.6	3649.0	3629.3	3612.9	3632.6
5°	3976.7	3910.9	3801.3	3694.0	3615.1	3544.9	3494.5	3468.2	3444.1	3427.7	3429.9
7.5°	4044.6	3938.3	3754.2	3597.5	3487.9	3412.3	3360.8	3343.3	3328.0	3323.6	3329.1
10°	4116.9	3960.2	3691.8	3483.6	3358.6	3296.2	3273.2	3285.2	3296.2	3306.0	3317.0
12.5°	4199.1	3980.0	3600.8	3349.9	3243.6	3219.5	3242.5	3295.1	3333.4	3356.4	3370.7
15°	4306.5	3997.5	3495.6	3216.2	3145.0	3172.4	3250.2	3341.1	3407.9	3450.7	3457.3
17.5°	4405.1	3996.4	3360.8	3081.4	3065.0	3145.0	3262.2	3390.4	3480.3	3540.5	3552.6
20°	4507.0	3966.8	3204.1	2949.9	2983.9	3115.4	3267.7	3422.2	3530.7	3600.8	3617.2
22.5°	4602.4	3915.3	3032.1	2830.5	2915.9	3075.9	3246.9	3403.6	3512.0	3569.0	3586.6
25°	4667.0	3825.4	2857.9	2729.6	2855.7	3027.7	3178.9	3304.9	3386.0	3414.5	3418.9
27.5°	4699.9	3708.2	2693.5	2642.0	2793.2	2948.8	3052.9	3115.4	3138.4	3136.2	3131.8
30°	4704.3	3553.7	2552.1	2570.8	2720.9	2832.7	2882.0	2869.9	2840.3	2789.9	2794.3
32.5°	4690.0	3379.5	2433.8	2502.8	2628.8	2691.3	2693.5	2635.4	2556.5	2476.5	2454.6
35°	4694.4	3208.5	2329.7	2426.1	2517.1	2544.5	2519.3	2433.8	2326.4	2223.4	2201.5
37.5°	4742.6	3059.5	2239.8	2337.3	2393.2	2399.8	2363.6	2273.8	2194.9	2094.1	2085.3
40°	4857.7	2953.2	2154.3	2237.6	2269.4	2272.7	2221.2	2157.6	2164.2	2110.5	2109.4
42.5°	5064.8	2907.2	2078.7	2133.5	2153.3	2159.8	2120.4	2079.8	2136.8	2101.8	2089.7
45°	5332.2	2918.1	2015.2	2031.6	2067.8	2098.5	2074.4	2025.0	2047.0	1894.6	1844.2
47.5°	5641.2	2988.3	1964.8	1944.0	2006.4	2064.5	2027.2	1952.7	1874.9	1723.7	1695.2
50°	6002.8	3096.7	1918.8	1857.4	1939.6	2018.5	1981.2	1874.9	1757.7	1684.2	1674.4
52.5°	6379.8	3229.3	1872.7	1762.1	1855.2	1983.4	1964.8	1857.4	1712.7	1640.4	1627.3
55°	6807.1	3363.0	1814.7	1651.4	1764.2	1967.0	1957.1	1793.8	1678.8	1638.2	1628.4
57.5°	7338.6	3515.3	1737.9	1536.3	1678.8	1907.8	1877.1	1755.5	1643.7	1613.0	1609.7
60°	8031.1	3740.0	1627.3	1413.6	1574.7	1816.8	1810.3	1699.6	1587.8	1565.9	1561.5
62.5°	9070.0	4111.5	1475.0	1290.9	1458.5	1662.3	1722.6	1624.0	1528.6	1527.5	1529.7
65°	10680.8	4670.3	1309.5	1183.5	1341.3	1531.9	1620.7	1546.2	1468.4	1490.3	1493.6
67.5°	12548.0	5133.8	1147.3	1078.3	1221.8	1408.1	1528.6	1468.4	1388.4	1445.4	1446.5
70°	13169.4	4719.6	1004.9	974.2	1098.0	1288.7	1428.9	1382.9	1301.8	1358.8	1353.3
72°	12255.5	3810.1	912.8	895.3	1004.9	1190.0	1340.2	1302.9	1222.9	1261.3	1247.0
72.5°	11967.3	3632.6	889.8	875.5	979.6	1164.8	1317.2	1283.2	1203.2	1236.1	1222.9
75°	10675.3	3154.8	764.9	768.2	854.7	1042.1	1187.9	1176.9	1094.7	1098.0	1093.6
77.5°	7742.9	2313.2	644.3	666.2	727.6	916.1	1057.5	1050.9	961.0	944.6	941.3
80°	3593.1	1180.2	524.9	534.8	598.3	766.0	901.8	893.1	820.8	799.9	787.9
82.5°	1230.6	561.1	394.5	401.1	463.5	616.9	782.4	776.9	716.7	676.1	650.9
85°	439.4	279.4	276.1	269.6	330.9	485.4	681.6	652.0	563.2	480.0	477.8
87.5°	142.5	119.4	142.5	141.4	192.9	328.7	495.3	421.9	408.7	339.7	333.1
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)