

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: P318023

Luminaire Tested: **GAN-SA9D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318023
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-SA9D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 56927 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

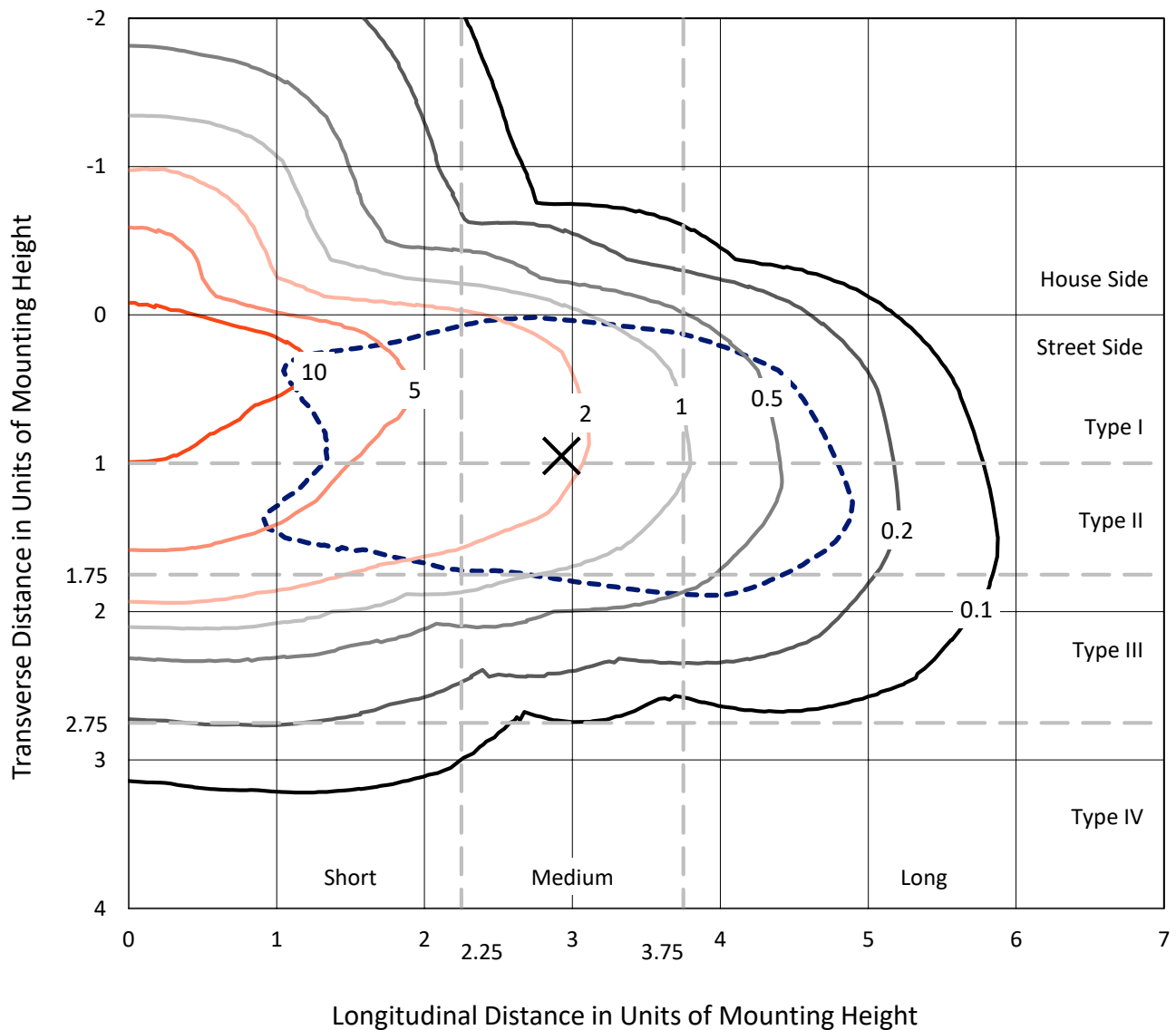
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

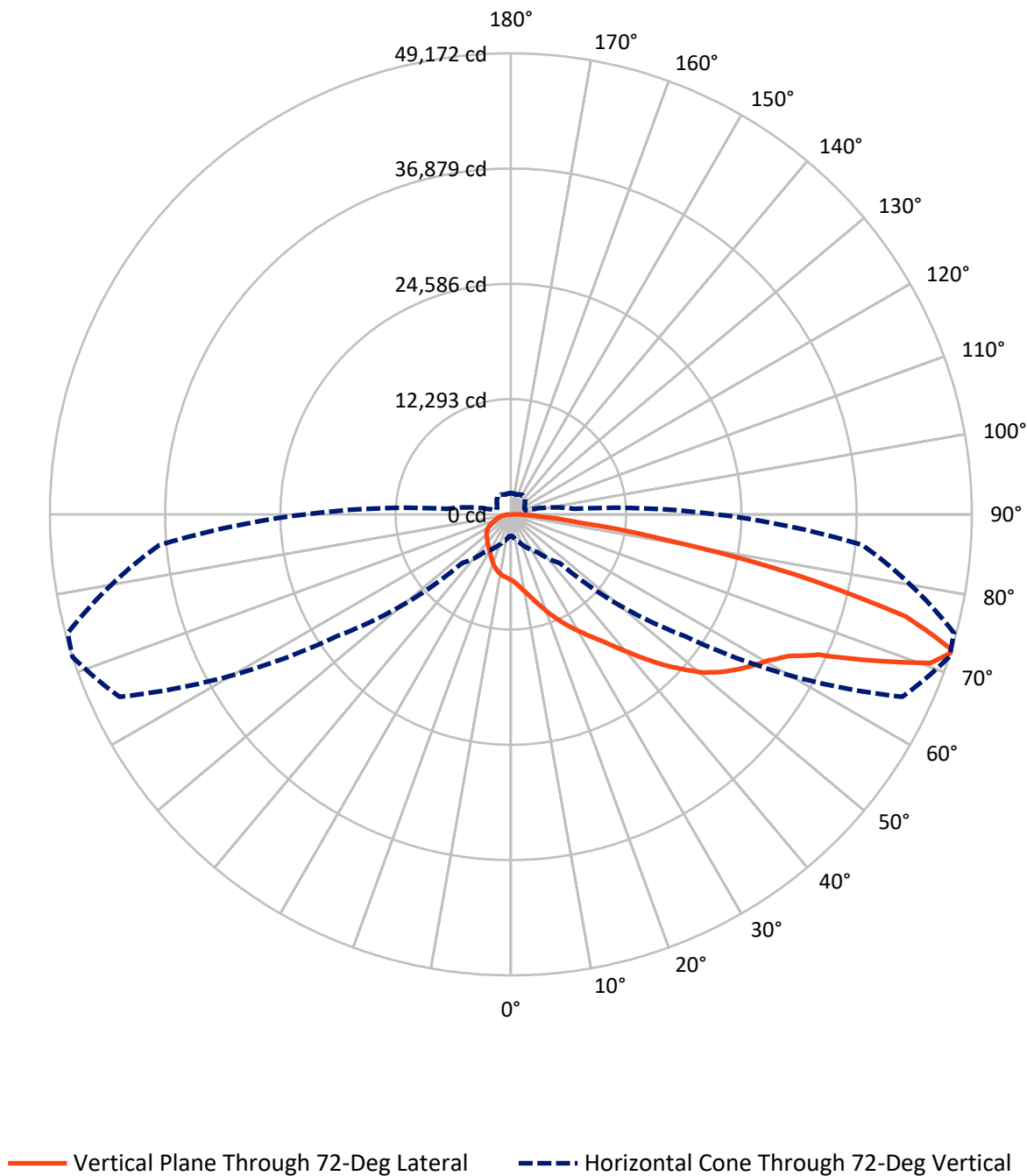
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	10560.3	0.0	10560.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	46366.7	0.0	46366.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	56927.0	0.0	56927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.8	1.2
10°-20°	2267.8	4.0
20°-30°	3973.9	7.0
30°-40°	5892.0	10.4
40°-50°	8617.5	15.1
50°-60°	11857.7	20.8
60°-70°	13201.1	23.2
70°-80°	8945.0	15.7
80°-90°	1470.2	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°	56927.0	100.0
0°-180°	56927.0	100.0

Coefficient of Utilization



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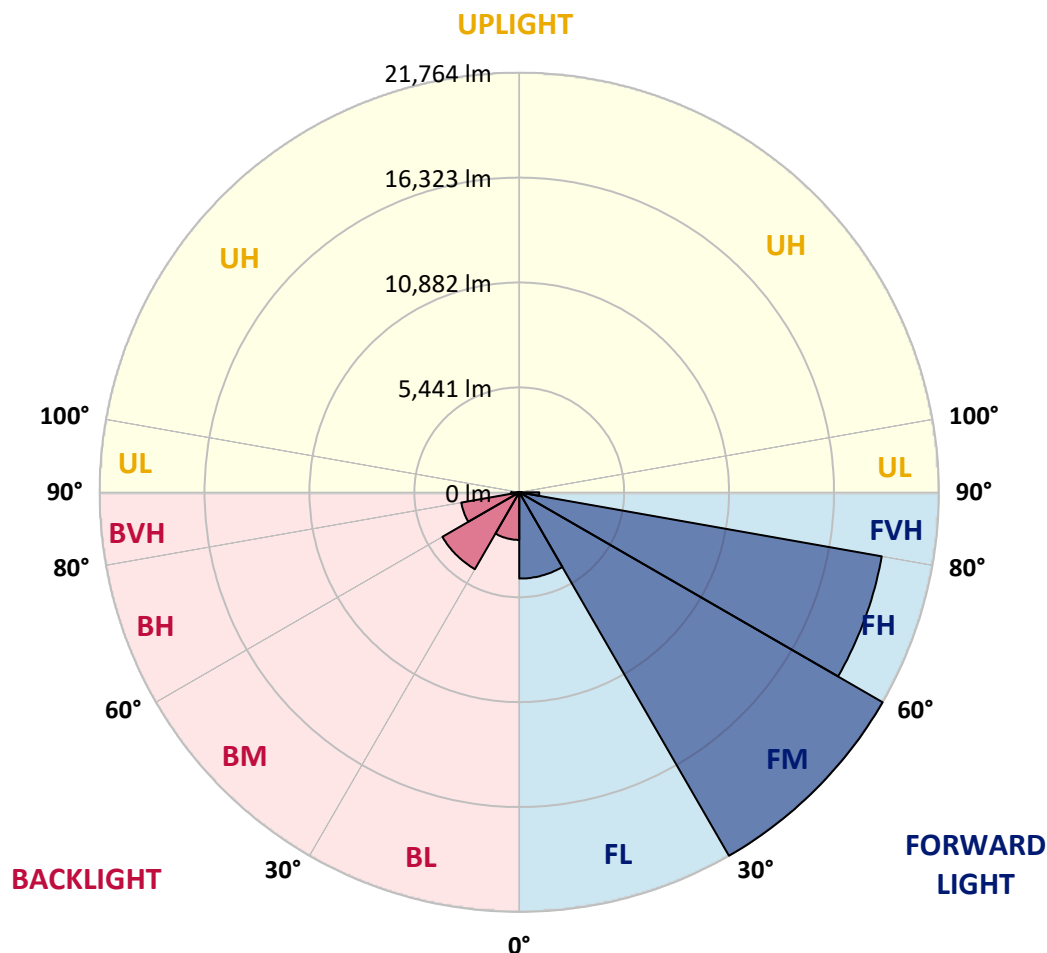
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4474.8	7.9			
FM	(30°-60°)	21763.9	38.2			
FH	(60°-80°)	19090.9	33.5			G5
FVH	(80°-90°)	1037.1	1.8			G5
BL	(0°-30°)	2468.6	4.3	B3/2500		
BM	(30°-60°)	4603.3	8.1	B3/5000		
BH	(60°-80°)	3055.2	5.4	B4/5000		G4/5000
BVH	(80°-90°)	433.1	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5
2.5°	7736.6	7724.8	7683.7	7683.7	7605.3	7538.6	7413.2	7328.9	7228.9	7193.6	7076.0
5°	8485.4	8489.3	8438.3	8403.0	8287.4	8146.3	7932.6	7738.6	7544.5	7466.1	7225.0
7.5°	9114.6	9106.7	9093.0	9063.6	8955.8	8810.7	8522.6	8234.5	7948.3	7830.7	7415.1
10°	9518.3	9536.0	9547.7	9561.5	9516.4	9412.5	9140.0	8789.2	8414.8	8254.1	7642.5
12.5°	9722.2	9753.6	9808.4	9902.5	9977.0	9965.2	9767.3	9394.9	8949.9	8748.0	7926.7
15°	9841.8	9882.9	9969.2	10137.7	10347.5	10467.0	10414.1	10077.0	9581.1	9332.1	8273.7
17.5°	9916.2	9949.6	10082.9	10308.3	10619.9	10937.5	11076.6	10794.4	10294.5	10010.3	8671.6
20°	9967.2	9992.7	10159.3	10423.9	10827.7	11333.4	11721.5	11650.9	11080.6	10712.1	9087.1
22.5°	10080.9	10102.5	10261.2	10527.8	10974.7	11627.4	12342.9	12448.7	11909.7	11492.2	9532.1
25°	10398.4	10398.4	10531.7	10717.9	11137.4	11882.2	12868.2	13336.7	12756.5	12270.3	9943.7
27.5°	11004.1	10998.2	11047.2	11111.9	11429.5	12141.0	13336.7	14120.7	13634.6	13103.4	10343.5
30°	11721.5	11760.7	11766.6	11735.2	11884.2	12464.4	13769.8	14947.9	14518.6	13946.2	10753.2
32.5°	12644.7	12670.2	12640.8	12536.9	12515.4	12923.1	14195.2	15814.2	15475.1	14826.3	11127.6
35°	13816.9	13767.9	13675.8	13464.1	13262.2	13536.6	14681.3	16680.6	16549.3	15890.7	11643.1
37.5°	15073.3	15075.3	14961.6	14481.4	14203.0	14320.6	15351.7	17662.6	17848.8	17156.9	12303.7
40°	16080.8	16133.7	16204.3	15573.1	15212.5	15375.2	16204.3	18801.5	19385.6	18658.4	13164.2
42.5°	16784.5	16845.3	17045.2	16649.3	16274.9	16576.7	17207.9	20016.7	21110.5	20391.1	14171.7
45°	17529.3	17562.7	17703.8	17533.3	17294.1	17974.3	18338.9	21275.1	22935.4	22237.6	15298.7
47.5°	18313.4	18348.7	18493.7	18380.0	18254.6	19279.7	19518.9	22461.0	24683.8	24266.3	16502.2
50°	19281.7	19305.2	19442.4	19236.6	19275.8	20263.7	20573.4	23548.9	26516.5	26089.2	17709.7
52.5°	20602.8	20608.7	20798.8	20612.6	20428.4	20985.0	21480.9	24574.0	27953.3	27751.4	18917.1
55°	21637.8	21700.5	22323.8	22284.6	22178.7	21639.7	22239.5	25550.2	29235.2	29331.2	20199.0
57.5°	20977.2	21222.2	22484.5	23374.4	24240.8	23268.6	23264.7	26649.8	30426.9	30881.7	21608.4
60°	18372.2	18705.4	20565.6	22539.4	25250.3	26102.9	25393.3	27992.5	31630.4	32418.4	23374.4
62.5°	13121.0	13669.9	16190.6	19342.5	23866.4	27980.7	29725.2	30123.1	33267.1	34198.2	25669.7
65°	6633.0	7048.6	9161.6	12958.3	19068.0	26753.7	34433.4	34788.2	36111.3	36938.4	29203.8
67.5°	4030.0	4186.8	5217.8	7207.4	11690.2	20840.0	35970.1	42564.0	41615.3	42054.4	34243.3
70°	2969.6	3085.2	3728.1	4786.6	6723.2	12229.2	31254.1	48113.1	47489.8	47440.8	37967.5
72°	2312.9	2397.2	2965.7	3867.3	4916.0	7336.7	22653.1	46064.8	49171.6	48924.6	37626.4
72.5°	2193.4	2267.9	2785.3	3639.9	4645.5	6650.7	20367.6	44682.9	49050.0	48938.3	37185.4
75°	1726.9	1779.8	2062.0	2814.7	3636.0	3773.2	11160.9	34627.5	43512.7	45321.9	33445.5
77.5°	1428.9	1436.8	1585.7	2048.3	2834.3	2667.7	5482.5	24025.2	31158.1	33147.6	23692.0
80°	1164.3	1174.1	1244.7	1436.8	2144.4	1973.8	2603.0	13814.9	17445.1	17466.6	11266.8
82.5°	927.1	929.1	1007.5	1050.6	1540.7	1411.3	1491.7	6486.0	7622.9	7332.8	4049.6
85°	652.7	639.0	984.0	862.5	1007.5	905.6	823.3	2567.8	3151.9	3014.7	1268.2
87.5°	217.6	225.4	437.1	558.6	588.0	513.6	366.5	984.0	1189.8	1180.0	401.8
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°	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5	7003.5
2.5°	7038.8	6976.1	6883.9	6782.0	6701.6	6619.3	6558.6	6527.2	6491.9	6462.5	6497.8
5°	7113.3	6995.7	6799.7	6607.6	6466.4	6341.0	6250.8	6203.8	6160.7	6131.3	6135.2
7.5°	7234.8	7044.7	6715.4	6435.1	6239.1	6103.8	6011.7	5980.3	5952.9	5945.0	5954.8
10°	7364.2	7083.9	6603.6	6231.2	6007.8	5896.0	5854.9	5876.4	5896.0	5913.7	5933.3
12.5°	7511.2	7119.2	6441.0	5992.1	5802.0	5758.8	5800.0	5894.1	5962.7	6003.8	6029.3
15°	7703.3	7150.5	6252.8	5753.0	5625.5	5674.5	5813.7	5976.4	6096.0	6172.4	6184.2
17.5°	7879.7	7148.6	6011.7	5511.9	5482.5	5625.5	5835.3	6064.6	6225.3	6333.1	6354.7
20°	8062.0	7095.6	5731.4	5276.6	5337.4	5572.6	5845.1	6121.5	6315.5	6441.0	6470.4
22.5°	8232.5	7003.5	5423.7	5063.0	5215.9	5502.1	5807.8	6088.1	6282.2	6384.1	6415.5
25°	8348.1	6842.8	5112.0	4882.7	5108.1	5415.8	5686.3	5911.7	6056.8	6107.7	6115.6
27.5°	8407.0	6633.0	4818.0	4725.8	4996.3	5274.7	5460.9	5572.6	5613.8	5609.9	5602.0
30°	8414.8	6356.7	4565.1	4598.4	4867.0	5066.9	5155.1	5133.6	5080.6	4990.5	4998.3
32.5°	8389.3	6045.0	4353.4	4476.9	4702.3	4814.1	4818.0	4714.1	4573.0	4429.9	4390.7
35°	8397.2	5739.2	4167.2	4339.7	4502.4	4551.4	4506.3	4353.4	4161.3	3977.1	3937.9
37.5°	8483.4	5472.7	4006.5	4180.9	4280.9	4292.7	4228.0	4067.2	3926.1	3745.8	3730.1
40°	8689.2	5282.5	3853.6	4002.6	4059.4	4065.3	3973.2	3859.5	3871.2	3775.2	3773.2
42.5°	9059.7	5200.2	3718.3	3816.4	3851.6	3863.4	3792.8	3720.3	3822.2	3759.5	3737.9
45°	9537.9	5219.8	3604.7	3634.1	3698.7	3753.6	3710.5	3622.3	3661.5	3389.0	3298.9
47.5°	10090.7	5345.2	3514.5	3477.3	3589.0	3692.9	3626.2	3492.9	3353.8	3083.3	3032.3
50°	10737.5	5539.3	3432.2	3322.4	3469.4	3610.5	3543.9	3353.8	3144.0	3012.7	2995.1
52.5°	11411.8	5776.5	3349.8	3151.9	3318.5	3547.8	3514.5	3322.4	3063.7	2934.3	2910.8
55°	12176.3	6015.6	3246.0	2953.9	3155.8	3518.4	3500.8	3208.7	3002.9	2930.4	2912.7
57.5°	13126.9	6288.1	3108.7	2748.1	3002.9	3412.6	3357.7	3140.1	2940.2	2885.3	2879.4
60°	14365.7	6689.9	2910.8	2528.6	2816.7	3249.9	3238.1	3040.1	2840.2	2801.0	2793.2
62.5°	16223.9	7354.4	2638.3	2309.0	2608.9	2973.5	3081.3	2904.9	2734.4	2732.4	2736.3
65°	19105.3	8354.0	2342.3	2116.9	2399.2	2740.2	2899.0	2765.7	2626.6	2665.8	2671.6
67.5°	22445.3	9183.2	2052.2	1928.8	2185.5	2518.8	2734.4	2626.6	2483.5	2585.4	2587.4
70°	23556.7	8442.2	1797.4	1742.5	1964.0	2305.1	2556.0	2473.7	2328.6	2430.5	2420.7
72°	21922.0	6815.3	1632.8	1601.4	1797.4	2128.7	2397.2	2330.6	2187.5	2256.1	2230.6
72.5°	21406.5	6497.8	1591.6	1566.1	1752.3	2083.6	2356.1	2295.3	2152.2	2211.0	2187.5
75°	19095.5	5643.2	1368.2	1374.0	1528.9	1864.1	2124.8	2105.2	1958.2	1964.0	1956.2
77.5°	13850.2	4137.8	1152.6	1191.8	1301.5	1638.7	1891.5	1879.8	1719.0	1689.6	1683.7
80°	6427.2	2111.0	938.9	956.5	1070.2	1370.1	1613.2	1597.5	1468.1	1430.9	1409.3
82.5°	2201.2	1003.6	705.6	717.4	829.1	1103.5	1399.5	1389.7	1281.9	1209.4	1164.3
85°	786.0	499.8	494.0	482.2	592.0	868.3	1219.2	1166.3	1007.5	858.5	854.6
87.5°	254.8	213.7	254.8	252.9	345.0	588.0	886.0	754.6	731.1	607.6	595.9
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)