

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: P318793

Luminaire Tested: **GAN-SA9A-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41912 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

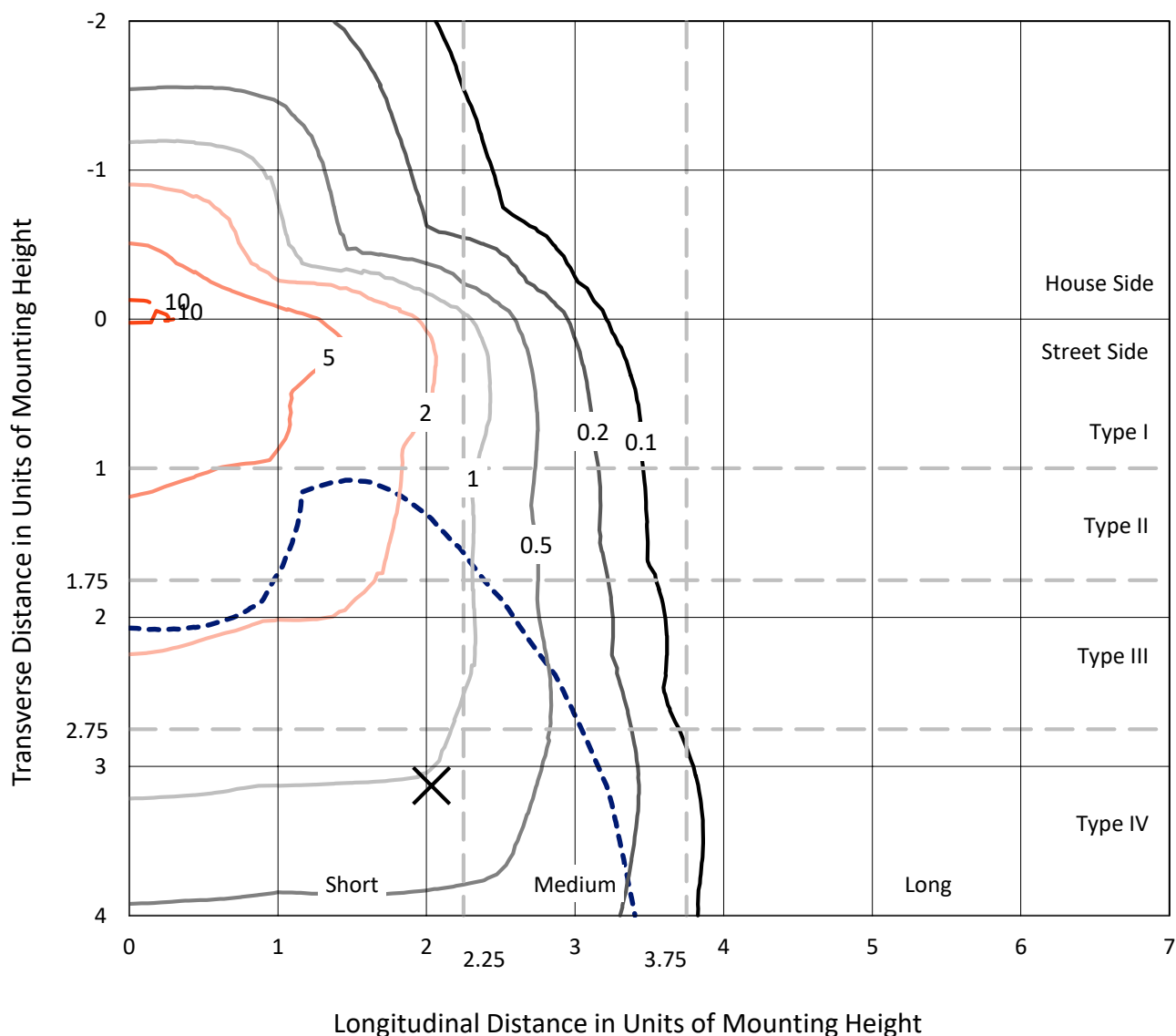
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

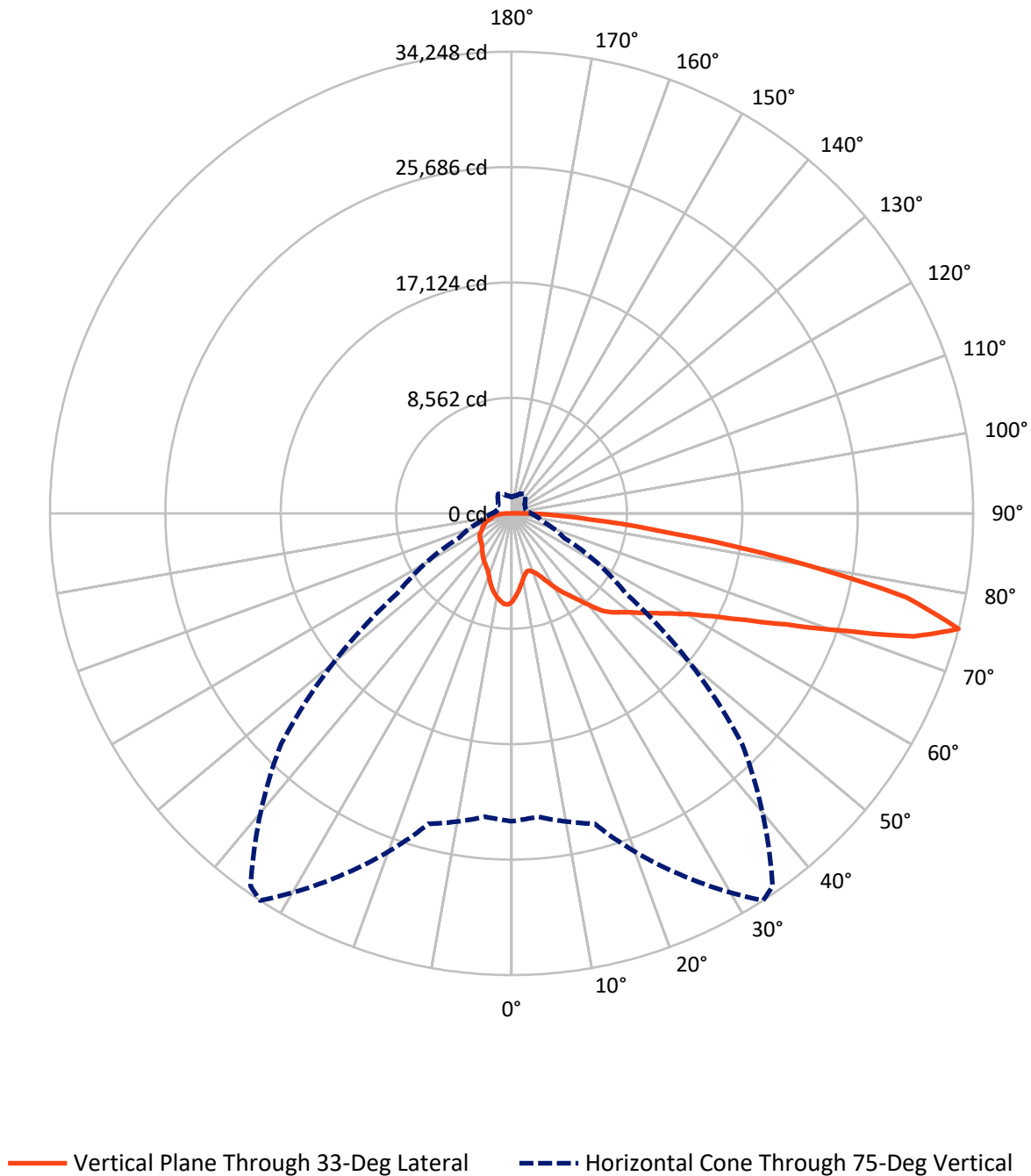
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8999.6	0.0	8999.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	32912.4	0.0	32912.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	41912.0	0.0	41912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.5	1.4
10°-20°	1604.6	3.8
20°-30°	2620.6	6.3
30°-40°	3902.7	9.3
40°-50°	5597.5	13.4
50°-60°	7684.6	18.3
60°-70°	9620.7	23.0
70°-80°	8703.4	20.8
80°-90°	1585.4	3.8
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°	41912.0	100.0
0°-180°	41912.0	100.0

Coefficient of Utilization



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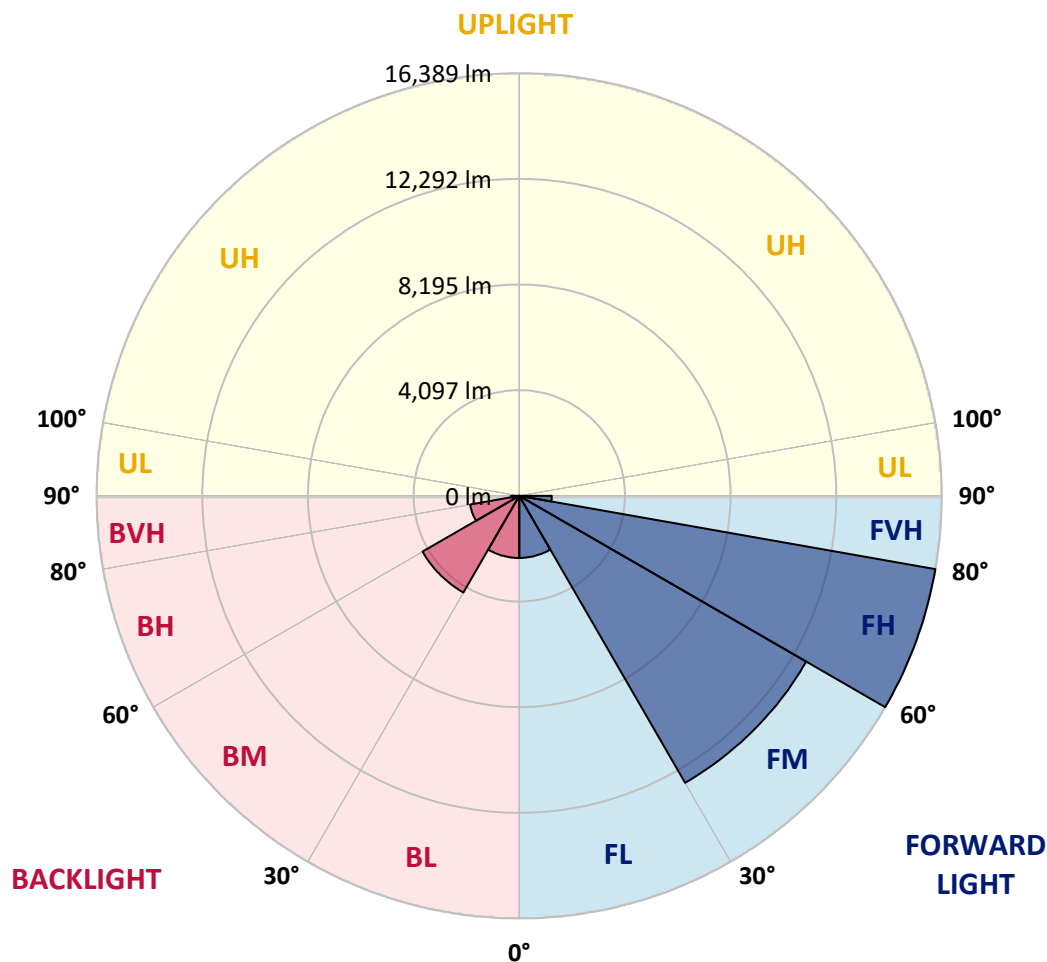
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2407.2	5.7			
FM	(30°-60°)	12853.5	30.7			
FH	(60°-80°)	16389.0	39.1			G5
FVH	(80°-90°)	1262.6	3.0			G5
BL	(0°-30°)	2410.5	5.8	B3/2500		
BM	(30°-60°)	4331.3	10.3	B3/5000		
BH	(60°-80°)	1935.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	322.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1
2.5°	6083.5	6060.3	6103.7	6109.5	6147.2	6161.6	6213.8	6294.8	6361.4	6438.2	6507.6
5°	5531.9	5515.9	5576.7	5620.2	5702.7	5737.4	5860.5	6032.8	6186.2	6360.0	6517.8
7.5°	5007.8	4999.1	5067.1	5165.6	5261.1	5308.9	5521.7	5772.2	6028.4	6309.3	6551.1
10°	4566.2	4563.3	4628.5	4725.5	4865.9	4919.5	5194.5	5524.6	5883.7	6270.2	6607.5
12.5°	4318.6	4328.8	4359.2	4440.3	4570.6	4624.1	4929.6	5317.6	5762.1	6257.2	6690.1
15°	4379.5	4395.4	4343.3	4340.4	4433.0	4475.0	4761.7	5169.9	5675.2	6278.9	6810.2
17.5°	4638.6	4641.5	4504.0	4417.1	4473.6	4495.3	4709.5	5086.0	5624.5	6328.1	6960.8
20°	5003.4	4996.2	4753.0	4608.2	4638.6	4644.4	4783.4	5087.4	5620.2	6413.5	7156.2
22.5°	5487.0	5433.4	5106.2	4909.3	4902.1	4893.4	4973.0	5194.5	5683.9	6552.5	7389.3
25°	6118.2	6067.5	5617.3	5348.0	5290.1	5268.4	5280.0	5423.3	5809.8	6701.6	7649.9
27.5°	6820.4	6732.0	6297.7	5917.0	5796.8	5766.4	5696.9	5746.1	5947.4	6845.0	7959.7
30°	7408.2	7360.4	6981.1	6529.4	6387.5	6344.1	6161.6	6108.1	6145.7	7040.4	8350.6
32.5°	7736.8	7704.9	7474.7	7109.9	6978.2	6917.4	6659.7	6552.5	6464.2	7348.8	8880.5
35°	8134.9	8114.7	7975.7	7710.7	7515.3	7451.6	7251.8	7140.3	6913.0	7773.0	9565.3
37.5°	8641.6	8619.9	8622.8	8408.5	8175.5	8116.1	7984.4	7867.1	7495.0	8330.4	10309.4
40°	9214.9	9173.0	9157.0	9146.9	8999.2	8965.9	8896.4	8737.2	8224.7	8996.3	11043.5
42.5°	10077.8	9928.7	9610.2	9730.3	9876.6	9859.2	9915.7	9686.9	9035.4	9783.9	11760.1
45°	10910.3	10665.6	10115.4	10141.5	10461.5	10558.5	10981.2	10819.1	9914.2	10646.8	12501.3
47.5°	11289.6	11104.3	10636.6	10638.1	10955.1	11156.4	12082.9	11967.1	10837.9	11626.9	13406.2
50°	11713.8	11528.5	11108.6	11266.4	11542.9	11757.2	13147.0	13087.7	11716.7	12699.7	14490.6
52.5°	12177.0	11862.9	11596.5	11878.8	12266.8	12515.8	14212.6	14050.4	12523.1	13779.7	15737.1
55°	12182.8	12097.4	12300.1	12507.1	13087.7	13393.2	15328.8	14900.3	13180.3	14840.9	16751.9
57.5°	12876.3	12737.3	13167.3	13262.9	14021.5	14366.0	16439.2	15640.1	13849.2	15654.5	17299.2
60°	13794.2	13675.5	14027.3	14279.2	15176.8	15637.2	17624.9	16400.1	14374.7	16268.4	17273.1
62.5°	15379.5	15244.8	15240.5	15593.7	16802.6	17338.3	18955.4	17145.7	14583.2	16390.0	16536.2
65°	17700.2	17486.0	17082.0	17250.0	19048.1	19582.3	20442.3	17685.7	14308.1	15738.5	14638.2
67.5°	19958.7	19951.5	19454.9	19799.5	22013.1	22441.6	22136.1	17739.3	13449.6	13469.9	11270.8
70°	22210.0	22238.9	22155.0	23353.7	26019.0	26464.9	23940.0	17019.8	11519.8	9727.4	6752.3
72.5°	23993.6	23986.4	24409.1	27500.1	31217.9	31118.0	25460.2	14839.5	8271.0	5251.0	3227.0
75°	22838.3	22586.4	23845.9	29553.0	34248.0	33760.1	24167.3	10351.4	4292.6	2390.2	1737.3
77.5°	14895.9	15134.8	16983.6	24413.5	29956.9	29363.3	17730.6	4829.7	2022.5	1567.9	1259.5
80°	5394.3	5646.2	7952.5	13828.9	20639.2	20542.2	8731.4	1984.9	1368.1	1184.3	917.9
82.5°	1856.0	1948.7	3137.3	6141.4	11653.0	12087.3	3285.0	1127.8	994.6	839.7	628.3
85°	728.2	833.9	1434.7	2954.9	5877.9	5921.3	1330.5	674.7	692.0	550.1	344.6
87.5°	276.5	335.9	686.2	1372.5	2684.1	2465.5	476.3	321.4	393.8	327.2	163.6
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°	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1	6551.1
2.5°	6561.2	6591.6	6655.3	6698.8	6745.1	6758.1	6763.9	6775.5	6787.1	6782.7	6784.2
5°	6601.8	6661.1	6763.9	6807.3	6827.6	6804.4	6759.6	6723.4	6697.3	6682.8	6678.5
7.5°	6668.3	6752.3	6862.3	6855.1	6808.8	6706.0	6590.2	6503.3	6430.9	6404.9	6390.4
10°	6756.7	6855.1	6931.8	6849.3	6714.7	6536.6	6362.9	6228.2	6119.7	6077.7	6070.4
12.5°	6869.6	6969.5	6984.0	6808.8	6585.8	6342.6	6106.6	5928.5	5766.4	5714.3	5702.7
15°	7015.8	7109.9	7020.2	6737.8	6426.6	6099.4	5793.9	5552.1	5381.3	5317.6	5294.4
17.5°	7169.3	7259.0	7027.4	6620.6	6218.1	5811.3	5427.6	5180.1	4984.6	4910.8	4902.1
20°	7353.1	7393.7	6997.0	6452.6	5931.4	5437.8	5033.8	4800.7	4696.5	4644.4	4638.6
22.5°	7580.4	7537.0	6927.5	6225.3	5568.1	5006.3	4677.7	4569.1	4543.0	4531.5	4535.8
25°	7820.8	7687.6	6824.7	5928.5	5109.1	4574.9	4417.1	4447.5	4482.2	4477.9	4477.9
27.5°	8085.7	7841.0	6666.9	5534.8	4601.0	4221.6	4240.5	4351.9	4404.1	4402.6	4401.2
30°	8425.9	8014.8	6465.7	5061.3	4126.1	3972.6	4087.0	4223.1	4294.0	4291.1	4292.6
32.5°	8844.3	8205.9	6192.0	4532.9	3783.0	3788.8	3920.5	4055.2	4137.7	4130.4	4131.9
35°	9333.7	8420.1	5821.4	4011.7	3555.7	3642.5	3746.8	3840.9	3919.1	3908.9	3898.8
37.5°	9866.4	8630.1	5329.2	3545.5	3370.4	3506.5	3593.3	3609.2	3645.4	3619.4	3600.6
40°	10373.1	8790.8	4695.1	3163.3	3183.6	3390.6	3447.1	3383.4	3318.2	3309.6	3283.5
42.5°	10814.7	8844.3	4053.7	2857.9	2986.7	3269.0	3303.8	3170.6	3053.3	2998.3	2975.1
45°	11280.9	8863.1	3455.8	2601.6	2797.1	3160.4	3198.1	3020.0	2855.0	2736.3	2697.2
47.5°	11890.4	8999.2	2991.1	2412.0	2652.3	3088.1	3141.6	2899.8	2685.6	2516.2	2480.0
50°	12688.1	9268.5	2613.2	2267.2	2558.2	3040.3	3101.1	2782.6	2546.6	2342.5	2306.3
52.5°	13574.1	9516.1	2307.7	2149.9	2467.0	2956.3	3049.0	2698.6	2416.3	2181.8	2142.7
55°	14193.8	9326.4	2061.6	2028.3	2348.3	2836.1	2976.6	2627.7	2229.5	2025.4	1990.7
57.5°	14312.5	8677.8	1874.8	1902.3	2204.9	2685.6	2865.1	2469.9	2128.2	1957.4	1921.2
60°	13988.2	7774.4	1735.9	1786.5	2051.5	2495.9	2656.6	2358.4	2031.2	1885.0	1854.6
62.5°	13173.1	6849.3	1633.1	1682.3	1908.1	2303.4	2526.3	2241.1	1932.7	1802.5	1772.0
65°	11527.0	5750.5	1534.6	1589.6	1774.9	2136.9	2409.1	2132.5	1835.8	1735.9	1706.9
67.5°	8701.0	4307.1	1442.0	1491.2	1656.2	1992.1	2281.7	2025.4	1741.6	1677.9	1643.2
70°	5123.6	2697.2	1336.3	1388.4	1531.7	1841.5	2145.6	1908.1	1624.4	1595.4	1550.5
72.5°	2384.4	1622.9	1216.1	1266.8	1375.4	1640.3	1970.4	1754.7	1485.4	1421.7	1360.9
75°	1423.1	1187.2	1074.2	1119.1	1195.8	1426.0	1750.3	1598.3	1353.6	1269.7	1206.0
77.5°	1064.1	907.7	917.9	965.7	1027.9	1248.0	1550.5	1475.3	1252.3	1187.2	1143.7
80°	765.9	689.1	748.5	800.6	865.8	1135.0	1485.4	1363.8	1132.1	1045.3	1004.7
82.5°	511.1	495.1	563.2	616.7	680.4	993.2	1395.6	1194.4	967.1	857.1	767.3
85°	282.3	298.2	379.3	402.5	457.5	699.3	1143.7	959.9	728.2	586.3	560.3
87.5°	117.3	137.5	204.1	196.9	243.2	417.0	752.8	579.1	463.3	346.0	269.3
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)