

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: P318823

Luminaire Tested: **GAN-SA9D-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318823
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-SA9D-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA 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: 69781 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

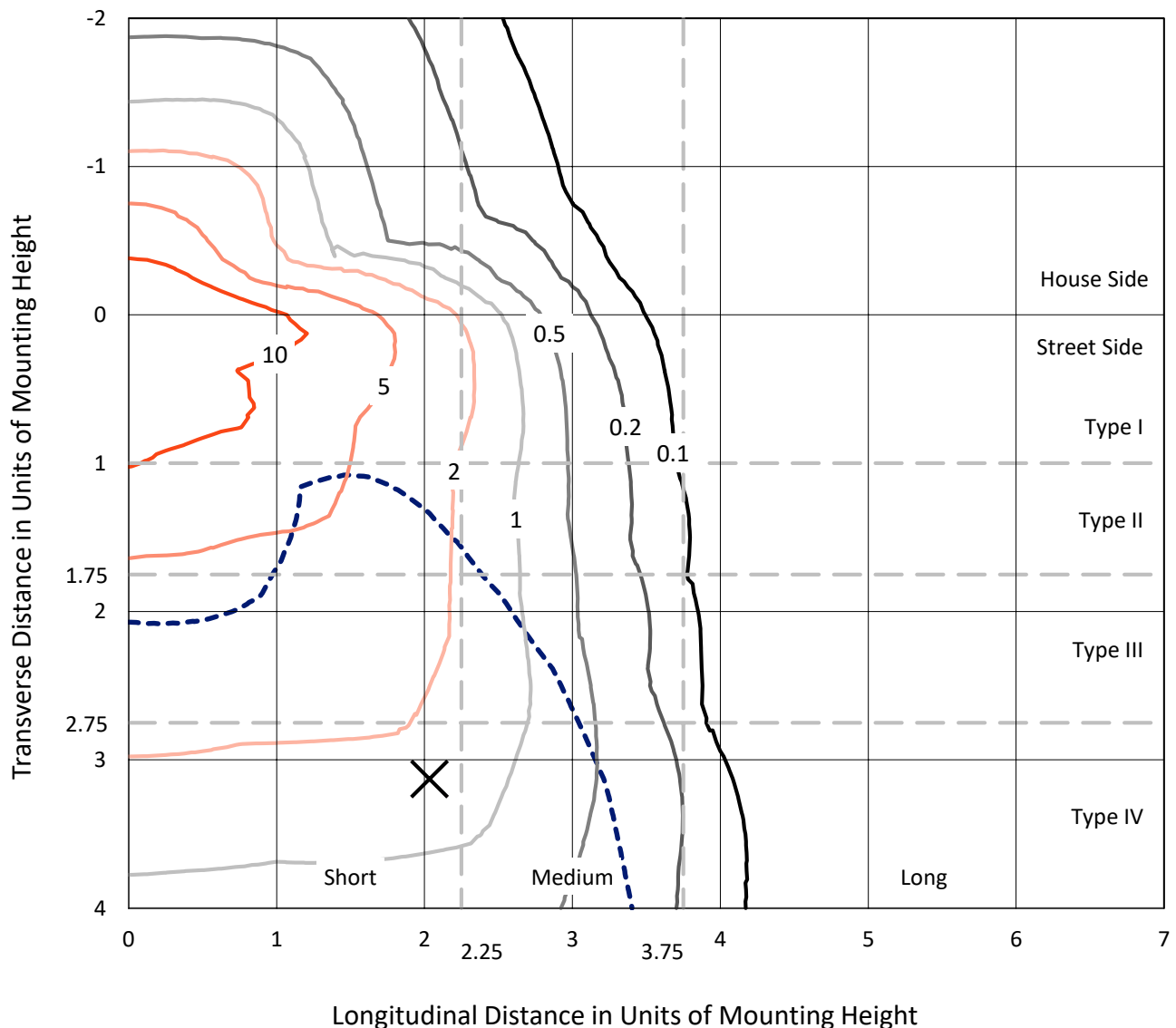
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

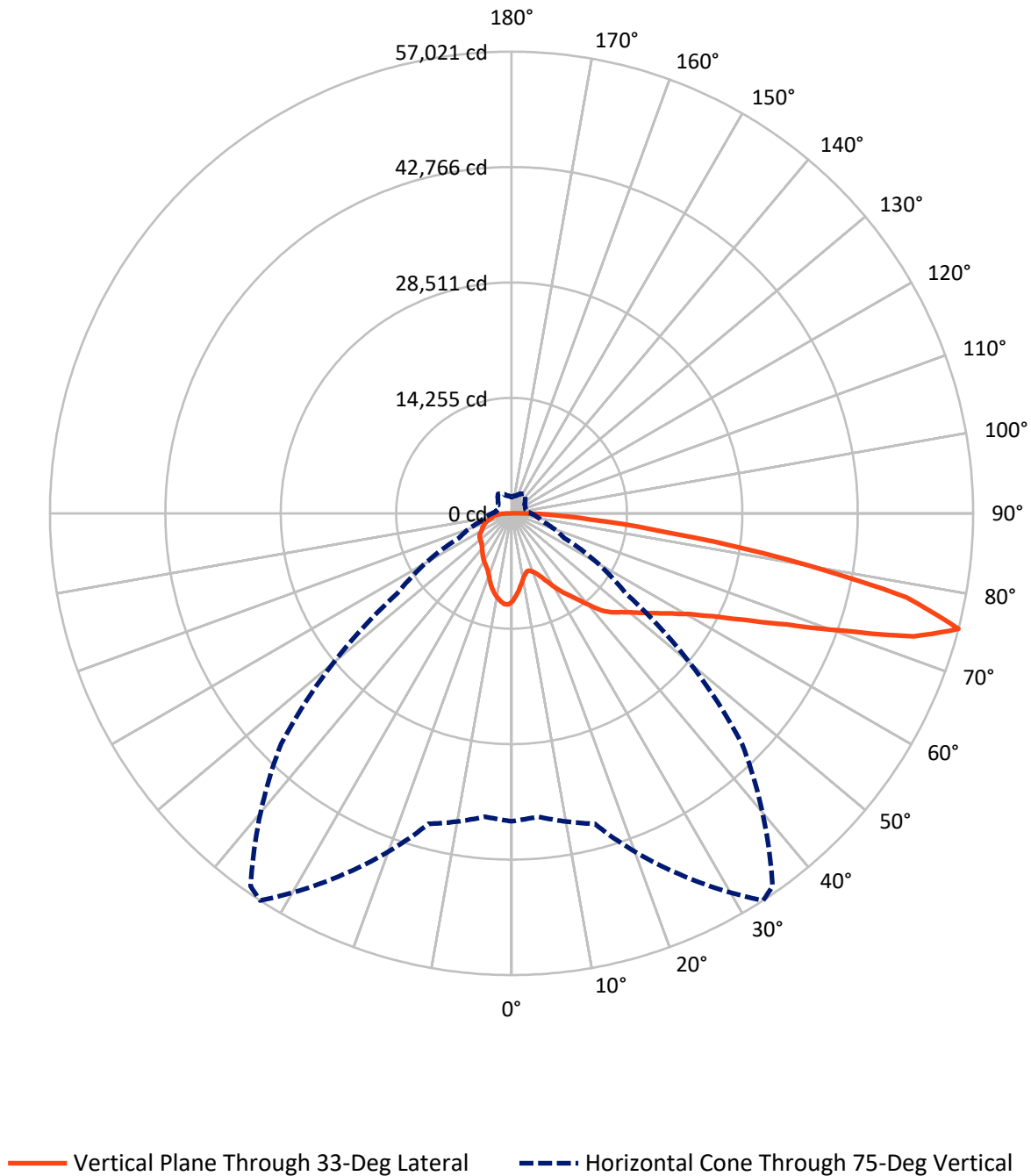
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	14983.8	0.0	14983.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	54797.2	0.0	54797.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	69781.0	0.0	69781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	986.4	1.4
10°-20°	2671.6	3.8
20°-30°	4363.2	6.3
30°-40°	6497.8	9.3
40°-50°	9319.6	13.4
50°-60°	12794.3	18.3
60°-70°	16017.9	23.0
70°-80°	14490.7	20.8
80°-90°	2639.5	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°	69781.0	100.0
0°-180°	69781.0	100.0

Coefficient of Utilization



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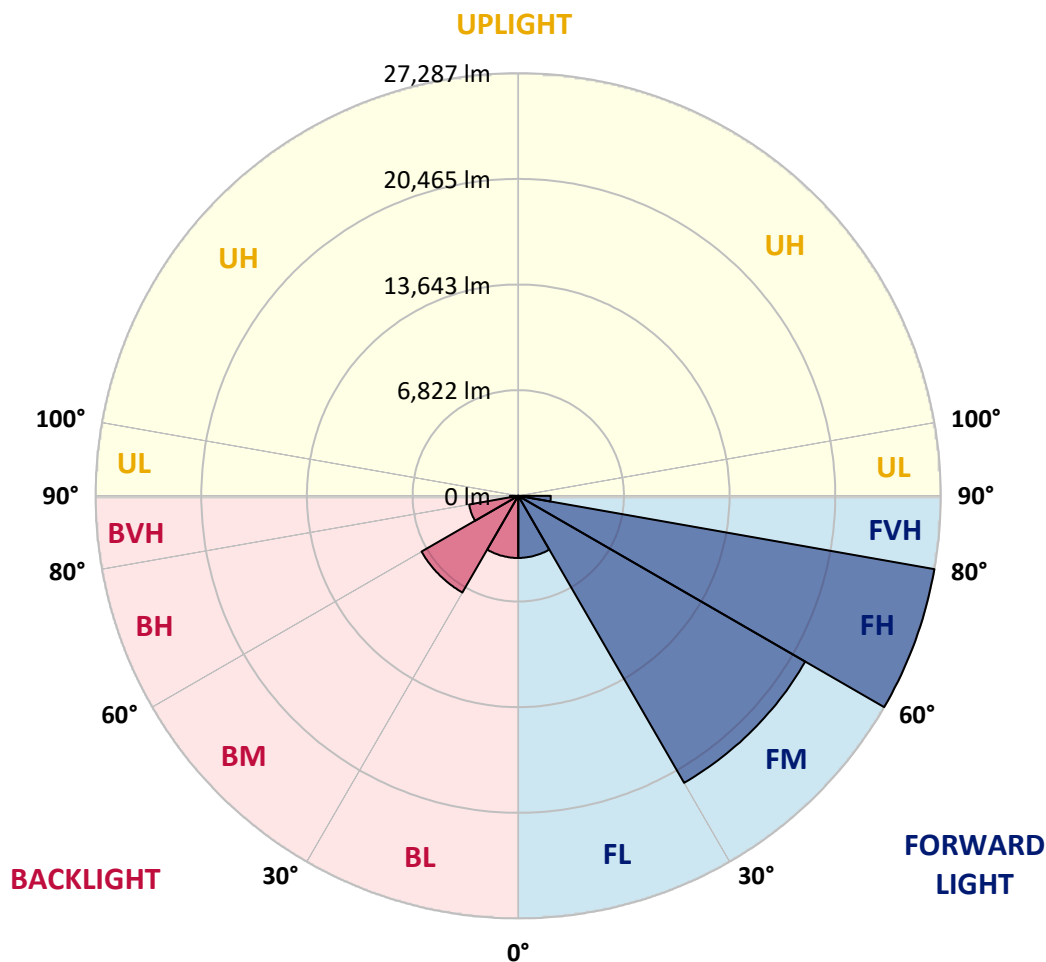
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4007.8	5.7			
FM	(30°-60°)	21400.4	30.7			
FH	(60°-80°)	27286.8	39.1			G5
FVH	(80°-90°)	2102.2	3.0			G5
BL	(0°-30°)	4013.4	5.8	B4/5000		
BM	(30°-60°)	7211.3	10.3	B4/8500		
BH	(60°-80°)	3221.8	4.6	B4/5000		G4/5000
BVH	(80°-90°)	537.4	0.8			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2
2.5°	10128.6	10090.0	10162.3	10172.0	10234.7	10258.8	10345.5	10480.5	10591.4	10719.1	10834.8
5°	9210.2	9183.7	9284.9	9357.3	9494.7	9552.5	9757.4	10044.2	10299.7	10589.0	10851.7
7.5°	8337.7	8323.2	8436.5	8600.4	8759.5	8839.0	9193.4	9610.4	10037.0	10504.6	10907.2
10°	7602.5	7597.7	7706.1	7867.6	8101.4	8190.6	8648.6	9198.2	9796.0	10439.5	11001.2
12.5°	7190.3	7207.2	7257.8	7392.8	7609.7	7698.9	8207.5	8853.5	9593.5	10417.8	11138.6
15°	7291.5	7318.0	7231.3	7226.4	7380.7	7450.6	7927.9	8607.6	9448.9	10454.0	11338.6
17.5°	7723.0	7727.8	7498.8	7354.2	7448.2	7484.4	7841.1	8467.8	9364.5	10536.0	11589.3
20°	8330.4	8318.4	7913.4	7672.4	7723.0	7732.6	7964.0	8470.2	9357.3	10678.2	11914.7
22.5°	9135.5	9046.3	8501.6	8173.7	8161.7	8147.2	8279.8	8648.6	9463.3	10909.6	12302.8
25°	10186.4	10102.1	9352.4	8904.1	8807.7	8771.5	8790.8	9029.4	9673.0	11157.8	12736.7
27.5°	11355.5	11208.5	10485.3	9851.4	9651.3	9600.7	9485.0	9567.0	9902.0	11396.5	13252.5
30°	12334.1	12254.6	11623.1	10871.0	10634.8	10562.5	10258.8	10169.6	10232.2	11721.9	13903.3
32.5°	12881.3	12828.3	12445.0	11837.6	11618.2	11517.0	11087.9	10909.6	10762.5	12235.3	14785.5
35°	13544.2	13510.4	13279.0	12837.9	12512.5	12406.4	12073.8	11888.2	11509.8	12941.6	15925.7
37.5°	14387.8	14351.7	14356.5	13999.7	13611.7	13512.8	13293.5	13098.2	12478.8	13869.6	17164.6
40°	15342.3	15272.4	15245.9	15229.0	14983.2	14927.7	14812.0	14546.9	13693.6	14978.4	18386.7
42.5°	16779.0	16530.7	16000.4	16200.4	16443.9	16415.0	16509.0	16128.1	15043.4	16289.6	19579.9
45°	18164.9	17757.6	16841.6	16885.0	17417.7	17579.2	18283.1	18013.1	16506.6	17726.2	20814.0
47.5°	18796.5	18487.9	17709.4	17711.8	18239.7	18574.7	20117.4	19924.6	18044.4	19358.1	22320.5
50°	19502.7	19194.2	18495.2	18757.9	19218.3	19575.0	21889.0	21790.2	19507.5	21144.2	24125.9
52.5°	20274.1	19751.0	19307.5	19777.5	20423.5	20838.1	23663.1	23393.1	20850.2	22942.4	26201.3
55°	20283.7	20141.5	20478.9	20823.6	21790.2	22298.8	25521.6	24808.1	21944.5	24709.2	27891.0
57.5°	21438.3	21206.9	21922.8	22081.9	23344.9	23918.6	27370.3	26039.8	23058.1	26063.9	28802.1
60°	22966.5	22768.9	23354.6	23774.0	25268.5	26035.0	29344.5	27305.3	23933.1	27085.9	28758.8
62.5°	25605.9	25381.7	25374.5	25962.7	27975.4	28867.2	31559.7	28546.6	24280.2	27288.4	27531.8
65°	29469.8	29113.1	28440.6	28720.2	31713.9	32603.4	34035.2	29445.7	23822.2	26203.7	24371.8
67.5°	33230.1	33218.0	32391.3	32964.9	36650.5	37364.0	36855.4	29534.9	22392.8	22426.6	18765.1
70°	36978.3	37026.5	36886.7	38882.5	43320.1	44062.5	39858.7	28336.9	19179.7	16195.6	11242.2
72.5°	39947.9	39935.9	40639.7	45786.0	51975.9	51809.6	42389.7	24706.8	13770.7	8742.6	5372.8
75°	38024.4	37605.0	39702.1	49204.0	57021.0	56208.6	40237.2	17234.5	7146.9	3979.6	2892.5
77.5°	24800.8	25198.6	28276.7	40647.0	49876.5	48888.2	29520.4	8041.2	3367.4	2610.5	2097.1
80°	8981.2	9400.6	13240.5	23024.4	34363.0	34201.5	14537.3	3304.7	2277.8	1971.7	1528.2
82.5°	3090.2	3244.4	5223.4	10225.0	19401.5	20124.6	5469.2	1877.7	1656.0	1398.0	1046.1
85°	1212.4	1388.4	2388.7	4919.7	9786.3	9858.6	2215.2	1123.3	1152.2	916.0	573.7
87.5°	460.4	559.2	1142.5	2285.1	4468.9	4104.9	793.0	535.1	655.6	544.8	272.4
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°	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2	10907.2
2.5°	10924.0	10974.7	11080.7	11153.0	11230.2	11251.9	11261.5	11280.8	11300.1	11292.8	11295.2
5°	10991.5	11090.4	11261.5	11333.8	11367.6	11329.0	11254.3	11194.0	11150.6	11126.5	11119.3
7.5°	11102.4	11242.2	11425.4	11413.4	11336.2	11165.1	10972.2	10827.6	10707.1	10663.7	10639.6
10°	11249.4	11413.4	11541.1	11403.7	11179.5	10883.1	10593.8	10369.6	10188.9	10119.0	10106.9
12.5°	11437.5	11603.8	11627.9	11336.2	10965.0	10560.1	10167.2	9870.7	9600.7	9513.9	9494.7
15°	11680.9	11837.6	11688.1	11218.1	10699.9	10155.1	9646.5	9244.0	8959.5	8853.5	8814.9
17.5°	11936.4	12085.9	11700.2	11022.9	10352.8	9675.4	9036.7	8624.5	8299.1	8176.2	8161.7
20°	12242.5	12310.0	11649.6	10743.3	9875.5	9053.5	8381.0	7993.0	7819.4	7732.6	7723.0
22.5°	12621.0	12548.7	11533.9	10364.8	9270.5	8335.2	7788.1	7607.3	7563.9	7544.6	7551.9
25°	13021.1	12799.3	11362.7	9870.7	8506.4	7616.9	7354.2	7404.8	7462.7	7455.4	7455.4
27.5°	13462.2	13054.8	11100.0	9215.0	7660.3	7028.8	7060.1	7245.7	7332.5	7330.1	7327.7
30°	14028.7	13344.1	10764.9	8426.8	6869.7	6614.2	6804.6	7031.2	7149.3	7144.5	7146.9
32.5°	14725.3	13662.3	10309.4	7547.0	6298.4	6308.1	6527.4	6751.6	6889.0	6876.9	6879.3
35°	15540.0	14019.0	9692.3	6679.3	5920.0	6064.6	6238.2	6394.9	6525.0	6508.1	6491.3
37.5°	16427.0	14368.5	8872.8	5903.1	5611.5	5838.0	5982.7	6009.2	6069.4	6026.1	5994.7
40°	17270.7	14636.1	7817.0	5266.8	5300.5	5645.2	5739.2	5633.2	5524.7	5510.2	5466.8
42.5°	18005.9	14725.3	6749.2	4758.2	4972.7	5442.7	5500.6	5278.8	5083.6	4992.0	4953.4
45°	18782.0	14756.6	5753.7	4331.5	4656.9	5262.0	5324.6	5028.1	4753.4	4555.7	4490.6
47.5°	19796.8	14983.2	4979.9	4015.8	4415.9	5141.4	5230.6	4828.1	4471.3	4189.3	4129.1
50°	21124.9	15431.5	4350.8	3774.7	4259.2	5061.9	5163.1	4632.8	4239.9	3900.1	3839.8
52.5°	22600.1	15843.7	3842.2	3579.5	4107.4	4922.1	5076.3	4493.0	4023.0	3632.5	3567.4
55°	23631.8	15527.9	3432.4	3377.0	3909.7	4722.0	4955.8	4374.9	3712.1	3372.2	3314.3
57.5°	23829.4	14448.1	3121.5	3167.3	3671.1	4471.3	4770.2	4112.2	3543.3	3258.9	3198.6
60°	23289.5	12944.0	2890.1	2974.5	3415.6	4155.6	4423.1	3926.6	3381.8	3138.4	3087.8
62.5°	21932.4	11403.7	2719.0	2800.9	3176.9	3835.0	4206.2	3731.3	3217.9	3001.0	2950.4
65°	19191.8	9574.2	2555.0	2646.6	2955.2	3557.8	4010.9	3550.6	3056.4	2890.1	2841.9
67.5°	14486.6	7171.0	2400.8	2482.7	2757.5	3316.7	3798.8	3372.2	2899.7	2793.7	2735.8
70°	8530.5	4490.6	2224.8	2311.6	2550.2	3066.1	3572.2	3176.9	2704.5	2656.3	2581.6
72.5°	3970.0	2702.1	2024.8	2109.1	2289.9	2731.0	3280.6	2921.4	2473.1	2367.0	2265.8
75°	2369.4	1976.5	1788.5	1863.3	1991.0	2374.3	2914.2	2661.1	2253.7	2113.9	2007.9
77.5°	1771.7	1511.3	1528.2	1607.8	1711.4	2077.8	2581.6	2456.2	2085.0	1976.5	1904.2
80°	1275.1	1147.4	1246.2	1333.0	1441.4	1889.8	2473.1	2270.6	1885.0	1740.3	1672.8
82.5°	850.9	824.4	937.7	1026.8	1132.9	1653.5	2323.6	1988.6	1610.2	1427.0	1277.5
85°	470.0	496.5	631.5	670.1	761.7	1164.2	1904.2	1598.1	1212.4	976.2	932.8
87.5°	195.2	229.0	339.9	327.8	405.0	694.2	1253.4	964.2	771.3	576.1	448.3
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)