

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: P318342

Luminaire Tested: **GAN-SA8D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52015 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

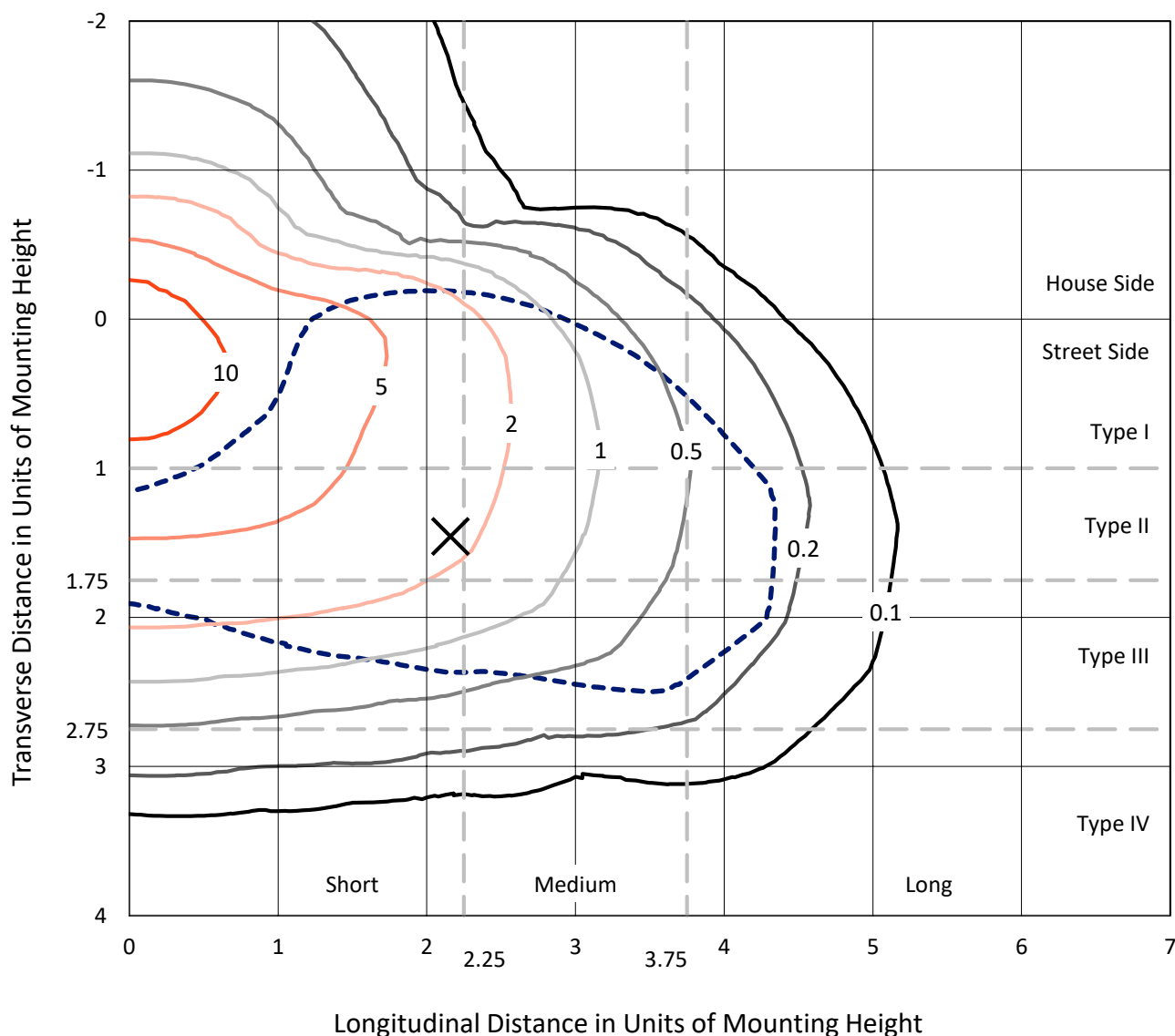
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

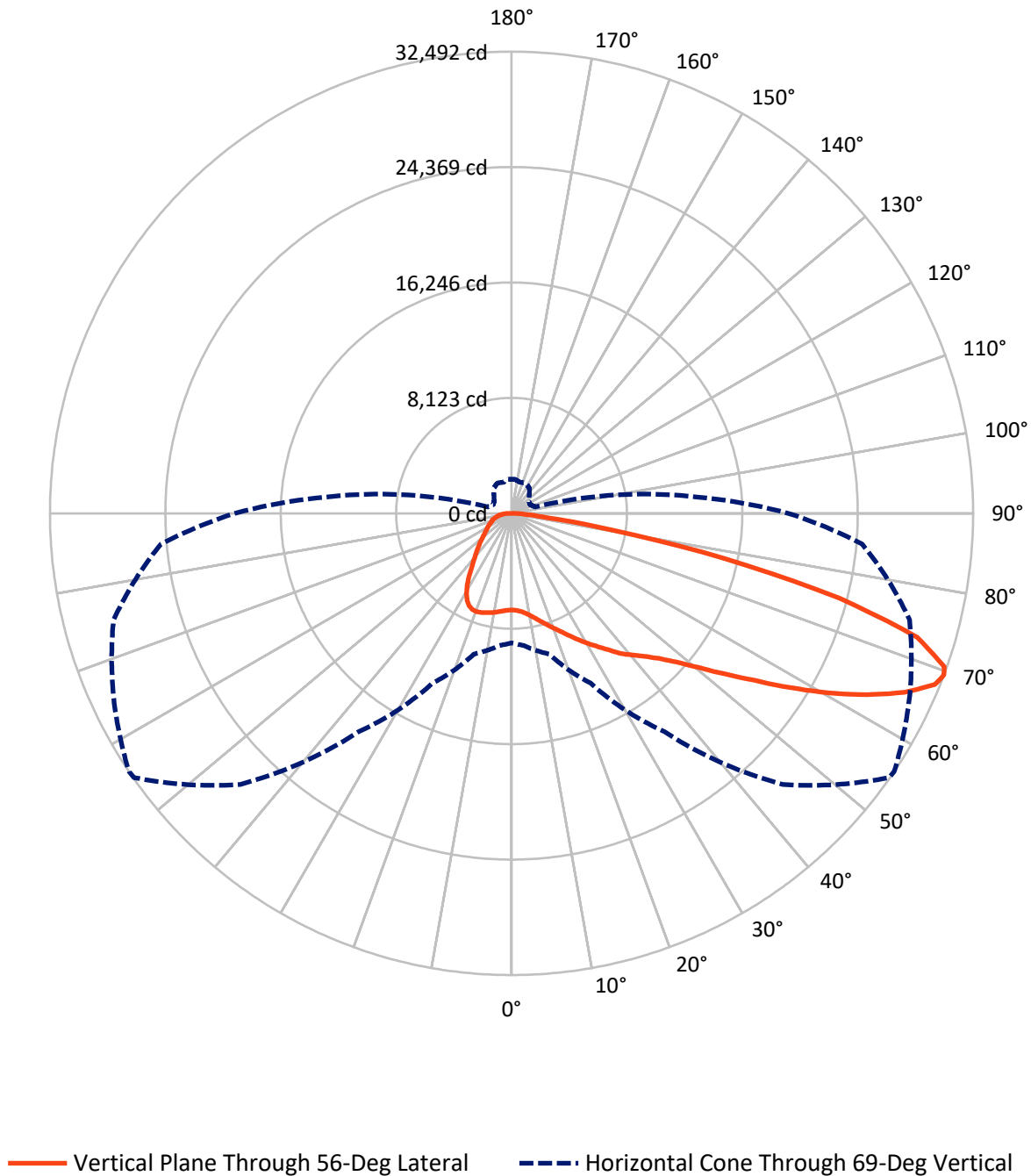
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11583.6	0.0	11583.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	40431.4	0.0	40431.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	52015.0	0.0	52015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.9	1.3
10°-20°	2147.7	4.1
20°-30°	3749.0	7.2
30°-40°	5385.3	10.4
40°-50°	7452.9	14.3
50°-60°	10919.6	21.0
60°-70°	13313.0	25.6
70°-80°	7360.3	14.2
80°-90°	1019.4	2.0
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°	52015.0	100.0
0°-180°	52015.0	100.0

Coefficient of Utilization



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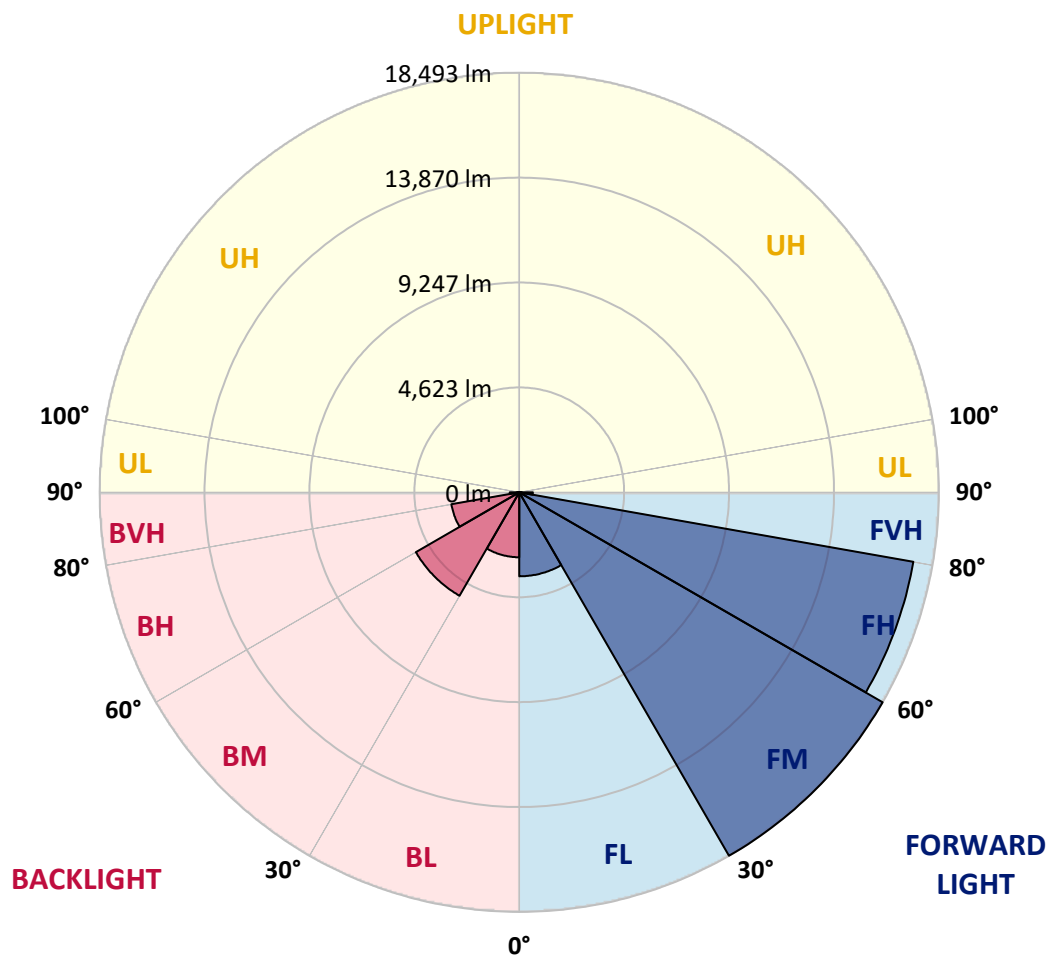
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3701.9	7.1			
FM	(30°-60°)	18493.3	35.6			
FH	(60°-80°)	17635.7	33.9			G5
FVH	(80°-90°)	600.5	1.2			G4/750
BL	(0°-30°)	2862.6	5.5	B4/5000		
BM	(30°-60°)	5264.5	10.1	B4/8500		
BH	(60°-80°)	3037.6	5.8	B4/5000		G4/5000
BVH	(80°-90°)	418.9	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2
2.5°	6843.2	6850.4	6845.0	6859.3	6843.2	6853.9	6845.0	6845.0	6839.6	6823.5	6805.6
5°	6950.7	6965.0	6956.1	6970.4	6950.7	6954.3	6938.2	6938.2	6922.0	6888.0	6852.1
7.5°	7119.1	7135.3	7128.1	7142.4	7115.5	7115.5	7094.0	7092.3	7060.0	7004.5	6963.2
10°	7319.8	7341.3	7334.2	7355.7	7334.2	7341.3	7319.8	7319.8	7276.8	7198.0	7146.0
12.5°	7611.9	7638.8	7619.1	7617.3	7608.3	7622.7	7604.7	7601.1	7561.7	7454.2	7382.5
15°	8002.5	8031.2	7990.0	7986.4	7936.2	7930.9	7930.9	7925.5	7900.4	7771.4	7653.1
17.5°	8452.3	8461.2	8425.4	8368.1	8303.6	8262.4	8257.0	8271.3	8271.3	8120.8	7932.6
20°	8893.1	8909.2	8880.5	8816.0	8733.6	8672.7	8629.7	8658.4	8656.6	8477.4	8210.4
22.5°	9373.3	9410.9	9367.9	9285.5	9188.8	9120.7	9045.4	9070.5	9072.3	8851.9	8482.8
25°	9995.1	9961.1	9934.2	9817.7	9679.7	9609.8	9540.0	9565.0	9557.9	9255.1	8764.1
27.5°	10545.2	10552.4	10516.5	10392.9	10233.4	10079.3	10075.7	10091.9	10065.0	9674.4	9029.3
30°	11184.9	11188.5	11138.3	11027.2	10853.4	10654.5	10607.9	10634.8	10577.5	10072.1	9308.8
32.5°	11821.0	11838.9	11783.4	11649.0	11509.2	11267.3	11174.2	11192.1	11048.7	10478.9	9597.3
35°	12378.3	12403.4	12385.5	12295.9	12143.6	11935.7	11824.6	11813.9	11636.5	10977.0	9979.0
37.5°	12946.3	12969.6	12949.9	12874.6	12813.7	12593.3	12534.2	12534.2	12226.0	11485.9	10464.6
40°	13530.5	13566.3	13543.0	13439.1	13387.1	13286.8	13145.2	13111.2	12777.9	12097.0	11256.6
42.5°	14073.4	14120.0	14213.2	14152.3	14046.5	14060.9	13776.0	13758.0	13514.3	13000.1	12251.1
45°	14843.9	14912.0	15069.7	15023.1	15001.6	14922.8	14584.1	14568.0	14474.8	14215.0	13485.7
47.5°	15684.3	15777.5	16062.4	16071.4	16302.5	16153.8	15693.3	15637.7	15659.2	15670.0	14992.6
50°	16458.4	16560.5	17028.2	17248.6	17793.4	17825.6	17089.1	17039.0	17123.2	17370.5	16748.7
52.5°	17076.6	17205.6	17789.8	18470.7	19404.3	19669.4	18807.6	18769.9	18832.6	19259.1	18734.1
55°	17529.9	17669.7	18305.8	19545.8	21036.7	21504.3	20785.8	20750.0	20789.4	21332.3	20893.3
57.5°	17635.7	17669.7	18592.5	20269.7	22414.6	23538.1	23206.6	23134.9	22941.4	23414.5	23276.5
60°	17139.3	17275.5	18356.0	20524.2	23480.8	25543.2	25736.7	25647.2	25104.2	25491.3	25380.2
62.5°	16132.3	16376.0	17472.6	20137.1	23898.3	27181.0	28218.5	28111.0	27175.6	27426.5	26892.5
65°	14487.3	14591.3	15743.4	18802.2	23367.9	28229.3	30431.5	30377.7	29200.4	28808.0	27172.0
67.5°	11545.1	11740.4	12718.8	16012.2	21197.9	28105.6	32142.7	32137.3	30522.9	29320.5	26181.1
69°	9120.7	9323.1	10254.9	13190.0	18757.4	26974.9	32429.4	32492.1	30895.6	29008.7	24765.6
70°	7271.4	7506.2	8145.9	11109.6	16591.0	25484.1	32191.1	32304.0	30823.9	28494.4	23459.3
72.5°	3094.6	3284.5	3739.7	5726.8	10111.6	19029.7	29433.4	29859.9	29162.8	26079.0	19388.1
75°	1351.1	1410.2	1616.3	2334.8	4488.7	10357.1	23057.9	23846.3	24935.8	22043.7	14442.5
77.5°	989.1	1014.2	1127.1	1370.8	2014.1	3911.7	14827.8	15286.5	17983.3	16040.9	8859.0
80°	765.1	783.1	870.9	1007.0	1315.2	1582.2	6762.5	7156.8	10111.6	8239.1	3689.5
82.5°	609.2	621.8	682.7	741.8	908.5	958.7	2245.2	2490.7	3732.5	2275.7	976.6
85°	566.2	580.6	602.1	541.1	582.4	562.6	971.2	1016.0	1127.1	894.1	408.5
87.5°	256.2	302.8	596.7	421.1	310.0	247.3	397.8	415.7	467.7	469.5	181.0
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°	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2	6800.2
2.5°	6816.3	6810.9	6819.9	6798.4	6825.3	6823.5	6814.5	6818.1	6836.0	6834.2	6836.0
5°	6857.5	6853.9	6864.7	6848.6	6880.8	6891.6	6893.4	6909.5	6929.2	6934.6	6934.6
7.5°	6961.4	6961.4	6966.8	6945.3	6966.8	6965.0	6956.1	6972.2	6991.9	6993.7	6991.9
10°	7140.6	7142.4	7133.5	7077.9	7060.0	7011.6	6966.8	6968.6	6993.7	7013.4	7018.8
12.5°	7366.4	7359.2	7319.8	7217.7	7142.4	7043.9	6997.3	6995.5	7020.6	7036.7	7042.1
15°	7624.4	7604.7	7502.6	7335.9	7203.4	7106.6	7031.3	7013.4	6999.1	6981.2	6982.9
17.5°	7868.1	7823.3	7653.1	7422.0	7282.2	7153.2	7008.0	6891.6	6810.9	6764.3	6750.0
20°	8115.4	8027.6	7782.1	7502.6	7325.2	7090.5	6810.9	6574.4	6427.5	6359.4	6346.8
22.5°	8341.2	8199.6	7902.2	7586.8	7291.2	6879.0	6440.0	6096.0	5891.7	5800.3	5807.5
25°	8561.6	8364.5	8027.6	7645.9	7119.1	6506.3	5923.9	5501.1	5264.5	5162.4	5158.8
27.5°	8755.1	8531.1	8163.8	7597.6	6798.4	5975.9	5312.9	4900.8	4703.7	4615.9	4601.5
30°	8977.3	8740.8	8344.8	7413.0	6328.9	5363.1	4716.2	4425.9	4286.2	4198.4	4182.2
32.5°	9247.9	9025.7	8493.5	7077.9	5728.6	4723.4	4250.3	4047.9	3920.6	3822.1	3804.2
35°	9642.1	9402.0	8531.1	6597.7	5069.2	4218.1	3908.1	3700.2	3528.2	3401.0	3388.4
37.5°	10136.7	9873.2	8445.1	5975.9	4429.5	3890.2	3623.2	3366.9	3143.0	2963.8	2935.1
40°	10849.8	10452.0	8206.8	5259.2	3958.3	3637.5	3345.4	3053.4	2775.6	2566.0	2524.8
42.5°	11706.3	11131.1	7841.3	4546.0	3612.4	3381.3	3069.5	2707.5	2442.3	2293.6	2272.1
45°	12795.8	11837.1	7334.2	3922.4	3272.0	3125.0	2772.0	2438.7	2273.9	2164.6	2146.7
47.5°	14039.4	12629.2	6802.0	3415.3	2983.5	2884.9	2533.7	2318.7	2187.9	2101.9	2085.7
50°	15567.8	13523.3	6237.5	2999.6	2693.2	2596.4	2420.8	2252.4	2148.5	2082.2	2066.0
52.5°	17291.6	14532.1	5830.8	2671.7	2453.1	2383.2	2361.7	2216.6	2132.3	2082.2	2066.0
55°	19148.0	15558.9	5391.8	2395.7	2245.2	2264.9	2322.3	2220.1	2162.8	2101.9	2078.6
57.5°	21006.2	16619.7	4902.6	2162.8	2080.4	2177.1	2295.4	2227.3	2178.9	2119.8	2098.3
60°	22475.5	17291.6	4144.6	1967.5	1949.6	2080.4	2230.9	2173.5	2110.8	2112.6	2109.0
62.5°	23161.8	17255.8	3307.8	1793.7	1818.8	1949.6	2127.0	2089.3	2037.4	2107.2	2112.6
65°	22776.6	16395.7	2574.9	1636.0	1679.0	1813.4	2019.4	2048.1	2066.0	2200.4	2218.3
67.5°	21160.3	14722.1	1994.4	1498.0	1551.8	1720.2	2030.2	2230.9	2254.2	2395.7	2393.9
69°	19488.5	13152.4	1732.7	1426.3	1489.1	1743.5	2170.0	2347.4	2259.6	2410.1	2388.6
70°	18087.2	11910.6	1593.0	1378.0	1460.4	1784.7	2263.1	2345.6	2232.7	2361.7	2325.9
72.5°	13930.1	8568.8	1351.1	1288.4	1363.6	1707.7	2290.0	2293.6	2170.0	2195.1	2134.1
75°	9554.3	5415.1	1179.1	1166.5	1216.7	1539.2	2204.0	2191.5	2006.9	1971.1	1920.9
77.5°	5268.1	2750.5	1001.7	1050.0	1084.1	1363.6	2003.3	1985.4	1833.1	1757.8	1739.9
80°	2032.0	1204.1	845.8	933.6	955.1	1180.8	1756.0	1739.9	1612.7	1515.9	1489.1
82.5°	766.9	630.7	698.8	808.1	801.0	974.8	1487.3	1478.3	1354.7	1213.1	1170.1
85°	354.8	378.1	553.7	666.6	614.6	722.1	1189.8	1205.9	1055.4	887.0	887.0
87.5°	150.5	211.4	392.4	503.5	413.9	487.4	872.6	833.2	765.1	530.4	498.1
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)