

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: P318162

Luminaire Tested: **GAN-SA8B-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318162
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-SA8B-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44943 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

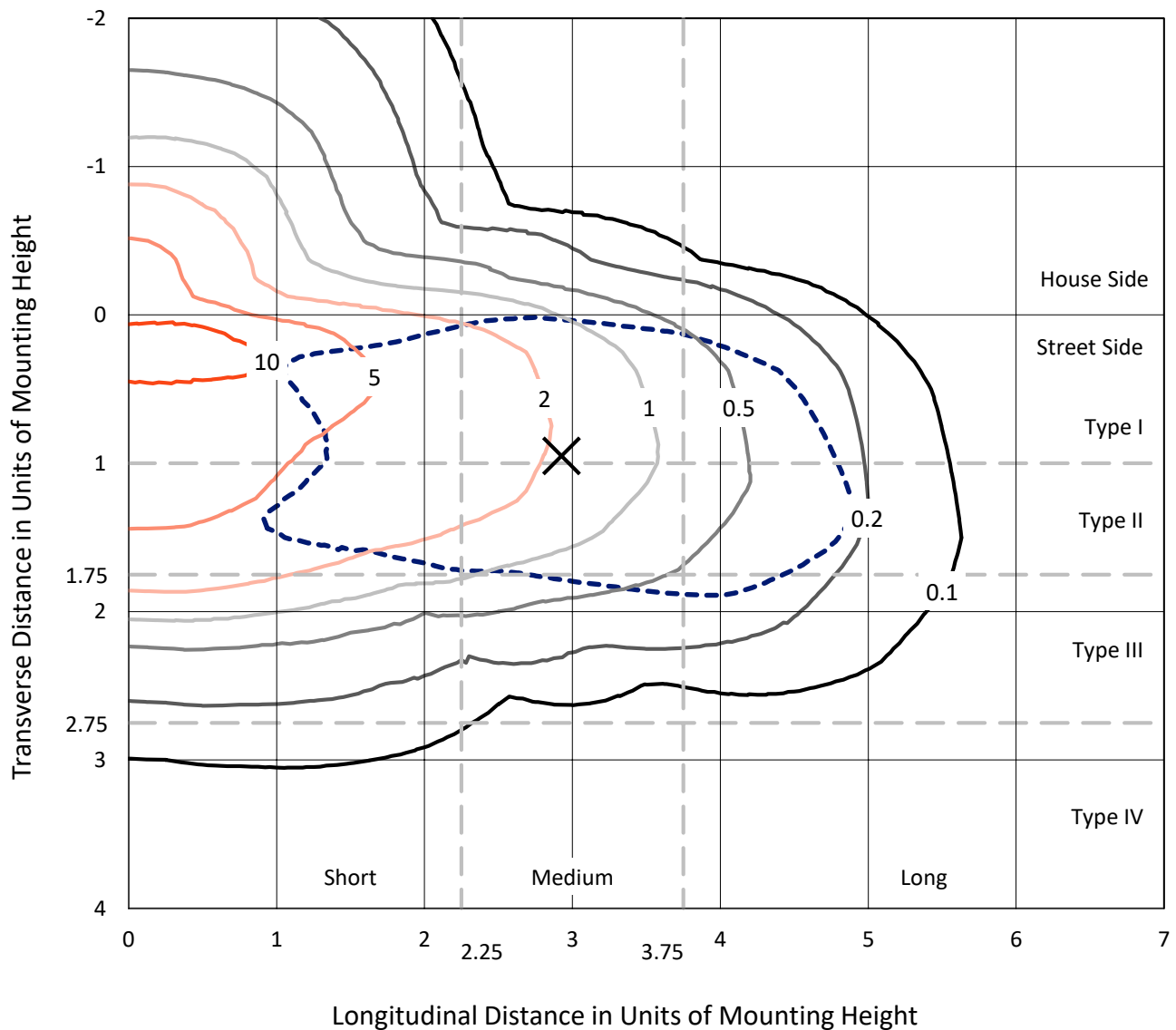
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

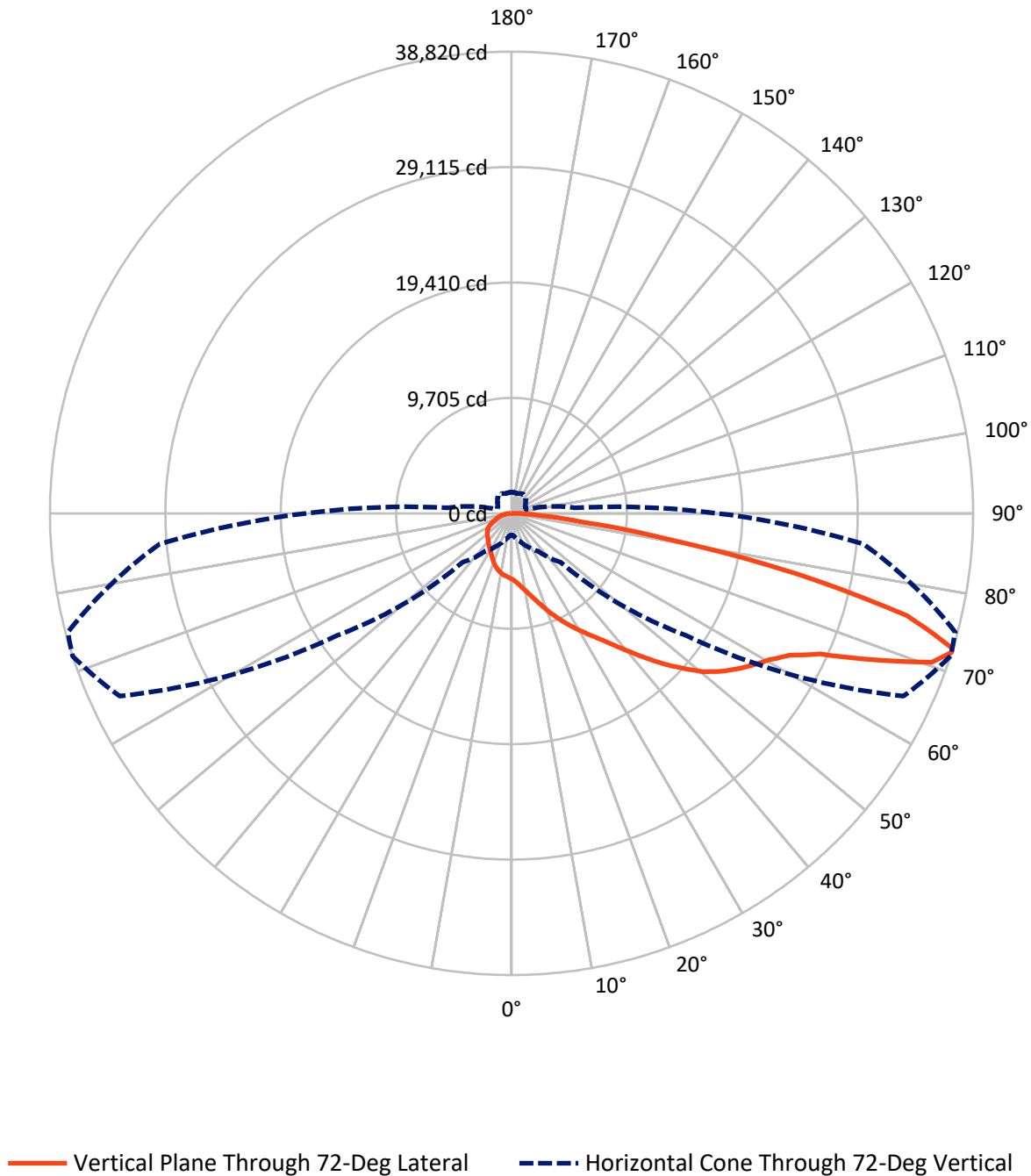
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	8337.2	0.0	8337.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	36605.8	0.0	36605.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	44943.0	0.0	44943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.0	1.2
10°-20°	1790.4	4.0
20°-30°	3137.3	7.0
30°-40°	4651.7	10.4
40°-50°	6803.4	15.1
50°-60°	9361.4	20.8
60°-70°	10422.1	23.2
70°-80°	7062.0	15.7
80°-90°	1160.7	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°	44943.0	100.0
0°-180°	44943.0	100.0

Coefficient of Utilization



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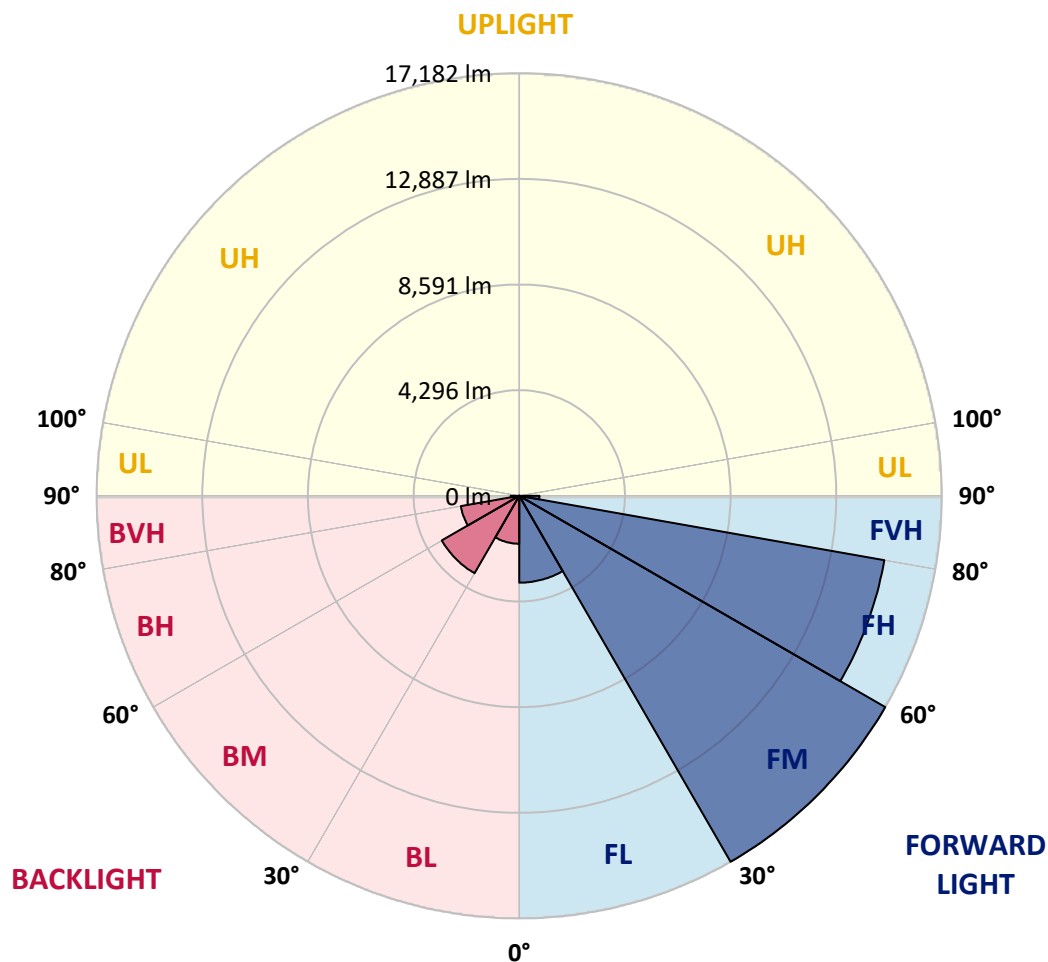
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3532.8	7.9			
FM	(30°-60°)	17182.3	38.2			
FH	(60°-80°)	15072.0	33.5			G5
FVH	(80°-90°)	818.7	1.8			G5
BL	(0°-30°)	1948.9	4.3	B3/2500		
BM	(30°-60°)	3634.2	8.1	B3/5000		
BH	(60°-80°)	2412.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	342.0	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2
2.5°	6107.9	6098.6	6066.1	6066.1	6004.2	5951.6	5852.6	5786.0	5707.1	5679.3	5586.4
5°	6699.1	6702.2	6661.9	6634.1	6542.8	6431.3	6262.7	6109.5	5956.3	5894.4	5704.0
7.5°	7195.8	7189.6	7178.8	7155.6	7070.5	6955.9	6728.5	6501.0	6275.0	6182.2	5854.1
10°	7514.6	7528.5	7537.8	7548.6	7513.0	7431.0	7215.9	6938.9	6643.4	6516.5	6033.6
12.5°	7675.5	7700.3	7743.6	7817.9	7876.7	7867.4	7711.1	7417.1	7065.8	6906.4	6258.0
15°	7769.9	7802.4	7870.5	8003.6	8169.2	8263.6	8221.8	7955.6	7564.1	7367.6	6531.9
17.5°	7828.7	7855.0	7960.3	8138.2	8384.3	8635.0	8744.8	8522.0	8127.4	7903.0	6846.1
20°	7869.0	7889.1	8020.6	8229.5	8548.3	8947.6	9254.0	9198.2	8747.9	8457.0	7174.1
22.5°	7958.7	7975.7	8101.1	8311.5	8664.4	9179.7	9744.5	9828.1	9402.5	9072.9	7525.4
25°	8209.4	8209.4	8314.6	8461.6	8792.8	9380.8	10159.2	10529.1	10071.0	9687.3	7850.4
27.5°	8687.6	8682.9	8721.6	8772.7	9023.4	9585.1	10529.1	11148.1	10764.3	10344.9	8166.1
30°	9254.0	9284.9	9289.5	9264.8	9382.4	9840.5	10871.1	11801.1	11462.2	11010.4	8489.5
32.5°	9982.8	10002.9	9979.7	9897.7	9880.7	10202.6	11206.9	12485.1	12217.4	11705.2	8785.1
35°	10908.2	10869.5	10796.8	10629.7	10470.3	10686.9	11590.7	13169.1	13065.4	12545.5	9192.1
37.5°	11900.2	11901.7	11811.9	11432.8	11213.1	11305.9	12119.9	13944.4	14091.4	13545.1	9713.6
40°	12695.6	12737.3	12793.1	12294.8	12010.0	12138.5	12793.1	14843.5	15304.6	14730.5	10392.9
42.5°	13251.1	13299.1	13456.9	13144.3	12848.8	13087.1	13585.4	15802.9	16666.4	16098.5	11188.3
45°	13839.2	13865.5	13976.9	13842.2	13653.5	14190.4	14478.3	16796.4	18107.1	17556.2	12078.1
47.5°	14458.1	14486.0	14600.5	14510.8	14411.7	15221.1	15409.8	17732.6	19487.5	19157.9	13028.3
50°	15222.6	15241.2	15349.5	15187.0	15218.0	15997.9	16242.4	18591.5	20934.4	20597.0	13981.5
52.5°	16265.6	16270.3	16420.4	16273.3	16127.9	16567.4	16958.9	19400.8	22068.7	21909.3	14934.8
55°	17082.7	17132.2	17624.3	17593.3	17509.8	17084.2	17557.8	20171.5	23080.7	23156.6	15946.8
57.5°	16561.2	16754.6	17751.2	18453.8	19137.7	18370.2	18367.1	21039.6	24021.6	24380.6	17059.5
60°	14504.6	14767.6	16236.2	17794.5	19934.7	20607.8	20047.7	22099.6	24971.8	25593.8	18453.8
62.5°	10358.9	10792.2	12782.2	15270.6	18842.2	22090.3	23467.6	23781.7	26263.9	26999.0	20265.9
65°	5236.7	5564.8	7232.9	10230.4	15053.9	21121.6	27184.7	27464.8	28509.3	29162.3	23056.0
67.5°	3181.6	3305.4	4119.4	5690.1	9229.2	16452.9	28397.9	33603.6	32854.6	33201.3	27034.6
70°	2344.4	2435.7	2943.3	3779.0	5307.9	9654.8	24674.6	37984.6	37492.5	37453.8	29974.8
72°	1826.0	1892.6	2341.3	3053.2	3881.1	5792.2	17884.3	36367.4	38820.2	38625.2	29705.5
72.5°	1731.6	1790.4	2199.0	2873.7	3667.5	5250.6	16079.9	35276.5	38724.2	38636.0	29357.3
75°	1363.3	1405.1	1628.0	2222.2	2870.6	2978.9	8811.4	27337.9	34352.6	35780.9	26404.7
77.5°	1128.1	1134.3	1251.9	1617.1	2237.7	2106.1	4328.3	18967.5	24598.8	26169.5	18704.4
80°	919.2	926.9	982.7	1134.3	1692.9	1558.3	2055.1	10906.7	13772.6	13789.6	8894.9
82.5°	732.0	733.5	795.4	829.5	1216.3	1114.2	1177.6	5120.6	6018.2	5789.1	3197.1
85°	515.3	504.5	776.8	680.9	795.4	714.9	649.9	2027.2	2488.4	2380.0	1001.2
87.5°	171.8	178.0	345.1	441.0	464.2	405.4	289.4	776.8	939.3	931.6	317.2
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°	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2	5529.2
2.5°	5557.0	5507.5	5434.8	5354.3	5290.8	5225.9	5177.9	5153.1	5125.3	5102.1	5129.9
5°	5615.8	5523.0	5368.2	5216.6	5105.2	5006.1	4934.9	4897.8	4863.7	4840.5	4843.6
7.5°	5711.8	5561.7	5301.7	5080.4	4925.6	4818.9	4746.1	4721.4	4699.7	4693.5	4701.3
10°	5813.9	5592.6	5213.5	4919.5	4743.0	4654.8	4622.3	4639.4	4654.8	4668.8	4684.2
12.5°	5930.0	5620.5	5085.0	4730.7	4580.6	4546.5	4579.0	4653.3	4707.4	4739.9	4760.1
15°	6081.6	5645.2	4936.5	4541.9	4441.3	4480.0	4589.8	4718.3	4812.7	4873.0	4882.3
17.5°	6220.9	5643.7	4746.1	4351.5	4328.3	4441.3	4606.9	4787.9	4914.8	4999.9	5016.9
20°	6364.8	5601.9	4524.8	4165.8	4213.8	4399.5	4614.6	4832.8	4986.0	5085.0	5108.2
22.5°	6499.4	5529.2	4281.9	3997.2	4117.9	4343.8	4585.2	4806.5	4959.7	5040.2	5064.9
25°	6590.7	5402.3	4035.8	3854.8	4032.7	4275.7	4489.3	4667.2	4781.7	4822.0	4828.2
27.5°	6637.2	5236.7	3803.7	3731.0	3944.5	4164.3	4311.3	4399.5	4432.0	4428.9	4422.7
30°	6643.4	5018.5	3604.1	3630.4	3842.4	4000.2	4069.9	4052.9	4011.1	3939.9	3946.1
32.5°	6623.2	4772.4	3437.0	3534.5	3712.4	3800.6	3803.7	3721.7	3610.3	3497.3	3466.4
35°	6629.4	4531.0	3290.0	3426.1	3554.6	3593.3	3557.7	3437.0	3285.3	3139.8	3108.9
37.5°	6697.5	4320.6	3163.1	3300.8	3379.7	3389.0	3337.9	3211.0	3099.6	2957.2	2944.9
40°	6860.0	4170.5	3042.4	3160.0	3204.8	3209.5	3136.8	3047.0	3056.3	2980.5	2978.9
42.5°	7152.5	4105.5	2935.6	3013.0	3040.8	3050.1	2994.4	2937.1	3017.6	2968.1	2951.1
45°	7530.1	4121.0	2845.8	2869.0	2920.1	2963.4	2929.4	2859.8	2890.7	2675.6	2604.4
47.5°	7966.4	4220.0	2774.6	2745.2	2833.4	2915.5	2862.8	2757.6	2647.7	2434.2	2394.0
50°	8477.1	4373.2	2709.6	2623.0	2739.0	2850.5	2797.9	2647.7	2482.2	2378.5	2364.6
52.5°	9009.5	4560.4	2644.7	2488.4	2619.9	2800.9	2774.6	2623.0	2418.7	2316.6	2298.0
55°	9613.0	4749.2	2562.6	2332.1	2491.4	2777.7	2763.8	2533.2	2370.7	2313.5	2299.6
57.5°	10363.5	4964.3	2454.3	2169.6	2370.7	2694.2	2650.8	2479.1	2321.2	2277.9	2273.3
60°	11341.5	5281.6	2298.0	1996.3	2223.7	2565.7	2556.4	2400.1	2242.3	2211.4	2205.2
62.5°	12808.5	5806.2	2082.9	1822.9	2059.7	2347.5	2432.6	2293.4	2158.7	2157.2	2160.3
65°	15083.3	6595.4	1849.2	1671.3	1894.1	2163.4	2288.7	2183.5	2073.6	2104.6	2109.2
67.5°	17720.2	7250.0	1620.2	1522.7	1725.4	1988.5	2158.7	2073.6	1960.7	2041.1	2042.7
70°	18597.7	6665.0	1419.0	1375.7	1550.6	1819.8	2017.9	1952.9	1838.4	1918.9	1911.1
72°	17307.1	5380.6	1289.1	1264.3	1419.0	1680.6	1892.6	1840.0	1727.0	1781.2	1761.0
72.5°	16900.1	5129.9	1256.6	1236.4	1383.5	1645.0	1860.1	1812.1	1699.1	1745.6	1727.0
75°	15075.6	4455.2	1080.1	1084.8	1207.0	1471.7	1677.5	1662.0	1545.9	1550.6	1544.4
77.5°	10934.5	3266.7	909.9	940.9	1027.5	1293.7	1493.3	1484.0	1357.1	1333.9	1329.3
80°	5074.2	1666.6	741.2	755.2	844.9	1081.7	1273.6	1261.2	1159.1	1129.7	1112.6
82.5°	1737.8	792.3	557.1	566.4	654.6	871.2	1104.9	1097.2	1012.1	954.8	919.2
85°	620.5	394.6	390.0	380.7	467.3	685.5	962.5	920.8	795.4	677.8	674.7
87.5°	201.2	168.7	201.2	199.6	272.4	464.2	699.5	595.8	577.2	479.7	470.4
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)