

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: P383393

Luminaire Tested: **GAN-SA7A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29177.9 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

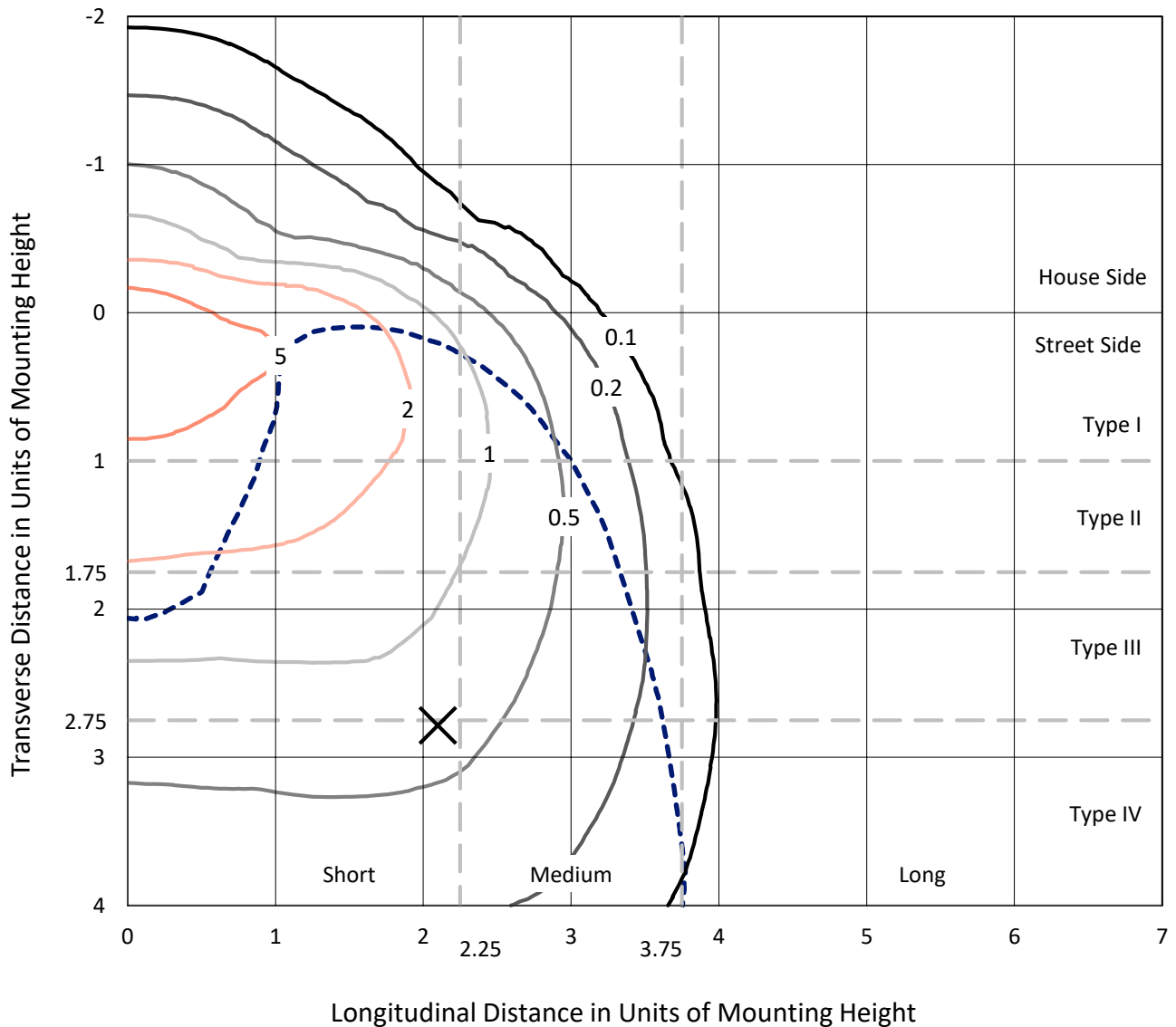
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

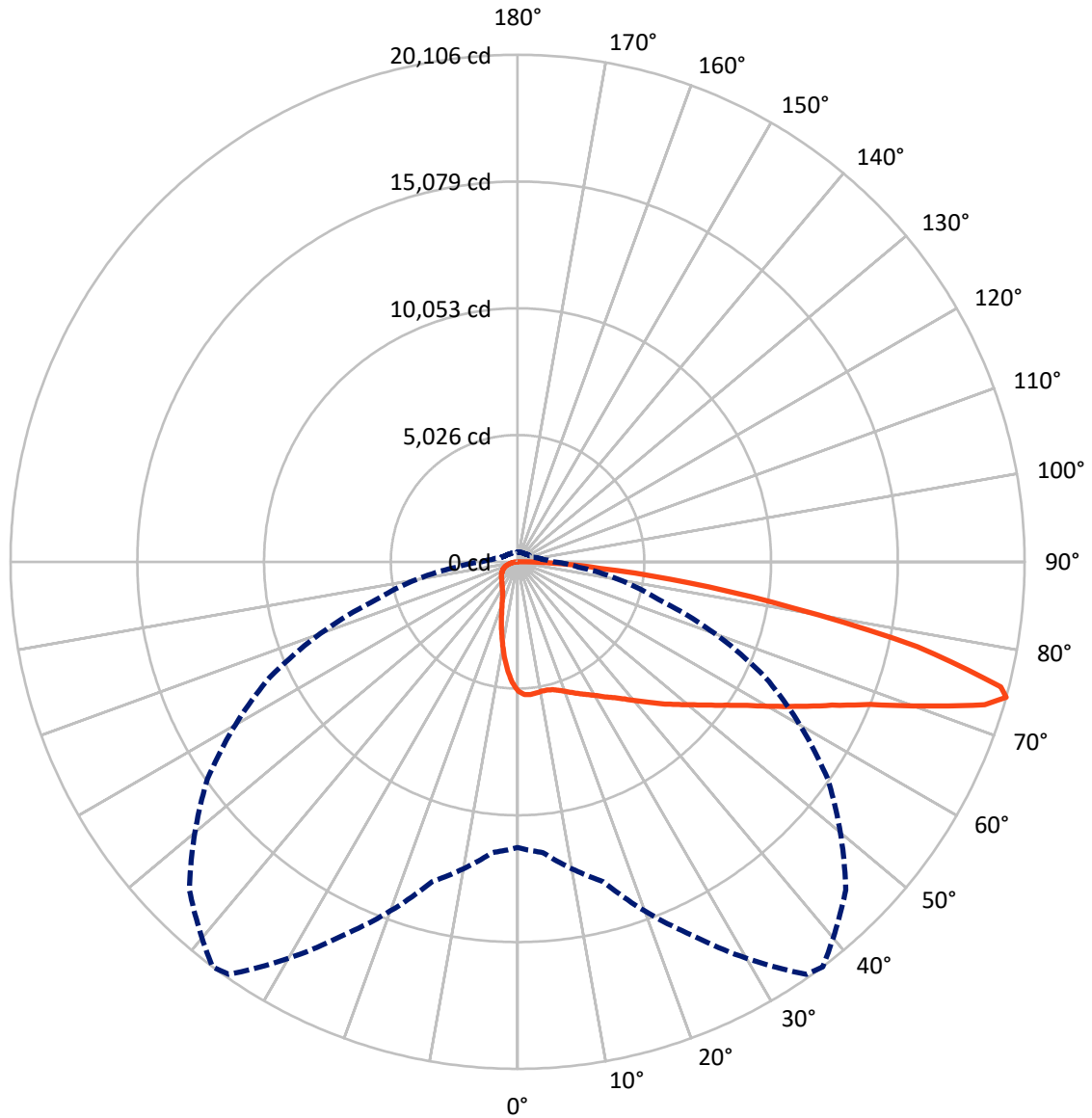
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4014.7	0.0	4014.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	25163.3	0.0	25163.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	29177.9	0.0	29177.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	1.6
10°-20°	1160.5	4.0
20°-30°	1788.0	6.1
30°-40°	2600.1	8.9
40°-50°	3826.9	13.1
50°-60°	5374.1	18.4
60°-70°	6802.0	23.3
70°-80°	5989.4	20.5
80°-90°	1184.2	4.1
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°	29177.9	100.0
0°-180°	29177.9	100.0

Coefficient of Utilization



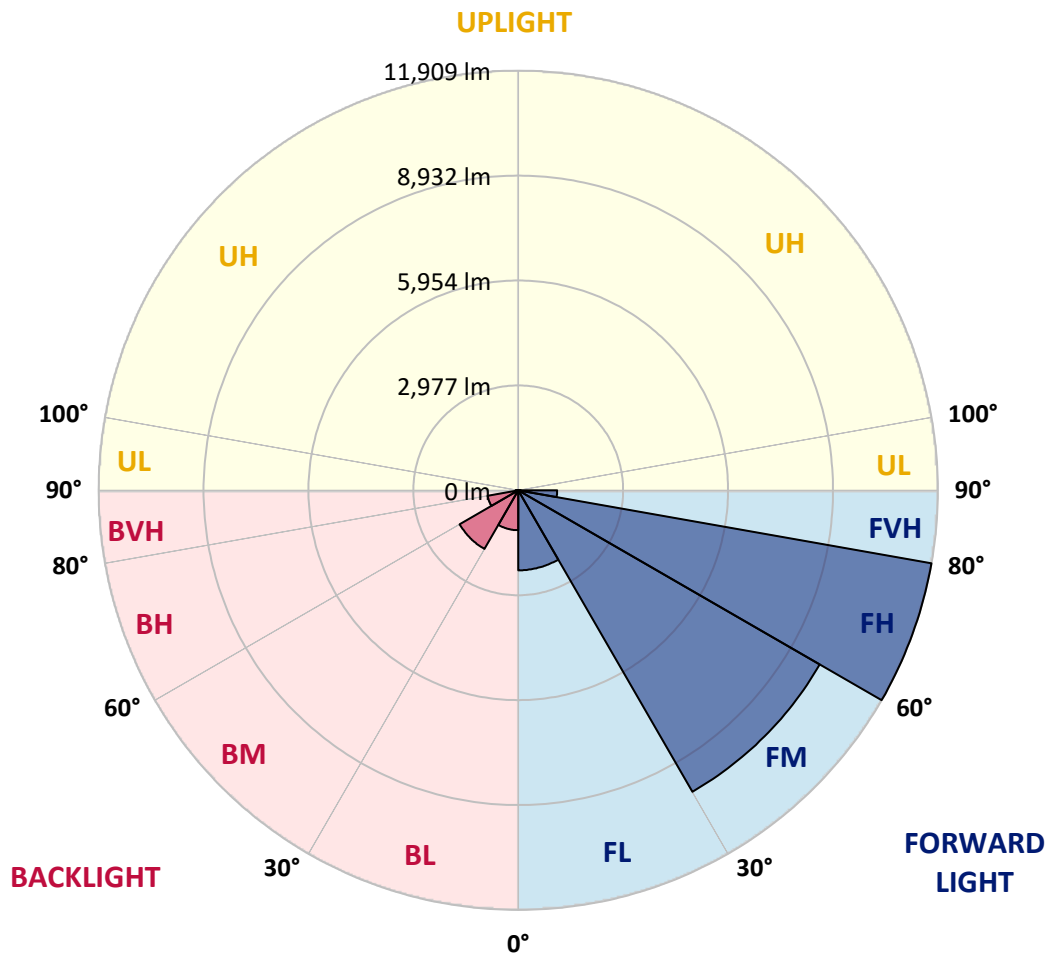
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.4	7.8			
FM (30°-60°)	9879.9	33.9			
FH (60°-80°)	11908.9	40.8			G4/12000
FVH (80°-90°)	1104.0	3.8			G5
BL (0°-30°)	1130.8	3.9	B3/2500		
BM (30°-60°)	1921.2	6.6	B2/2500		
BH (60°-80°)	882.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	80.2	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0
2.5°	5316.8	5317.8	5316.8	5308.6	5289.0	5272.6	5259.2	5239.7	5196.5	5163.7	5114.3
5°	5367.1	5361.0	5356.9	5341.5	5310.7	5292.1	5266.4	5229.4	5158.5	5092.8	5012.6
7.5°	5343.5	5336.3	5327.1	5308.6	5273.6	5258.2	5222.3	5173.9	5088.6	5002.3	4887.2
10°	5270.5	5268.5	5264.4	5260.3	5230.5	5218.2	5185.3	5133.9	5049.5	4944.7	4810.0
12.5°	5189.4	5194.5	5210.9	5232.5	5219.2	5212.9	5192.4	5157.5	5071.2	4958.1	4795.7
15°	5138.0	5152.4	5196.5	5253.1	5264.4	5262.3	5257.2	5234.6	5143.1	5017.7	4828.6
17.5°	5120.4	5144.1	5228.4	5321.9	5354.8	5362.0	5364.0	5325.0	5223.3	5090.7	4862.5
20°	5152.4	5182.1	5305.4	5434.0	5486.3	5490.4	5481.2	5413.4	5299.3	5153.4	4881.0
22.5°	5249.0	5275.7	5429.8	5574.8	5634.4	5640.5	5612.8	5510.0	5379.5	5227.4	4906.7
25°	5435.0	5467.9	5622.1	5766.9	5797.8	5798.8	5758.7	5631.3	5484.3	5331.2	4962.2
27.5°	5677.5	5710.5	5849.2	5991.1	5974.6	5965.4	5910.9	5783.4	5621.1	5474.1	5060.9
30°	5947.8	5983.8	6115.4	6216.1	6177.1	6158.6	6114.4	5949.9	5811.2	5669.3	5211.9
32.5°	6227.4	6260.3	6375.4	6444.3	6395.0	6386.7	6319.9	6169.8	6058.9	5967.4	5456.5
35°	6514.2	6537.8	6650.9	6689.9	6624.1	6622.1	6603.6	6465.9	6396.0	6439.1	5812.2
37.5°	6807.1	6813.2	6909.8	6911.9	6892.4	6900.6	6920.2	6833.8	6853.3	6988.0	6274.7
40°	7068.1	7084.6	7154.5	7176.1	7210.0	7238.8	7336.4	7279.9	7431.0	7669.4	6850.2
42.5°	7261.4	7293.3	7405.2	7460.8	7570.8	7616.0	7753.7	7806.1	8110.3	8468.0	7534.8
45°	7424.8	7474.2	7654.0	7768.1	7954.1	8033.3	8230.6	8406.4	8878.1	9334.5	8255.3
47.5°	7601.6	7664.3	7889.4	8107.3	8360.1	8449.5	8808.2	9071.3	9697.2	10206.0	8934.7
50°	7861.6	7910.0	8129.9	8472.1	8787.7	8902.8	9399.2	9776.4	10529.7	11036.5	9523.6
52.5°	8224.4	8205.9	8391.9	8872.0	9295.4	9437.2	10030.3	10526.7	11373.6	11787.8	10021.0
55°	8589.3	8558.5	8689.0	9290.2	9887.4	10036.4	10725.1	11280.1	12176.4	12464.1	10402.3
57.5°	8995.3	8936.7	9046.6	9762.0	10561.6	10739.4	11503.1	12080.7	12965.7	13010.8	10644.9
60°	9413.6	9334.5	9457.8	10346.8	11417.8	11627.5	12413.7	12861.9	13709.8	13448.8	10723.0
62.5°	9779.5	9724.0	9914.1	10999.4	12382.9	12613.2	13307.9	13692.4	14443.6	13630.7	10441.3
65°	10099.1	10108.4	10437.2	11733.3	13459.0	13704.6	14333.6	14716.0	15021.2	13522.7	9782.6
67.5°	10480.5	10532.8	11094.1	12699.4	14813.7	15082.9	15826.0	15832.2	15344.0	12889.6	8485.5
70°	11036.5	11144.4	11997.5	14039.7	16739.7	17109.7	17683.2	16487.9	14890.7	11173.2	6676.6
72.5°	11529.9	11731.3	12958.5	15573.1	19087.2	19367.8	18769.7	16109.7	12996.5	8373.5	4159.5
74°	11329.4	11579.1	13133.1	16328.6	19971.1	20105.8	18402.7	15005.8	10836.0	5798.8	2417.4
75°	10897.7	11169.1	12878.3	16321.4	19859.1	19784.0	17516.7	13744.7	8924.3	3955.0	1608.5
77.5°	8794.8	9081.7	10851.5	13988.3	16283.4	16212.5	13455.9	9220.4	3908.7	1297.1	817.1
80°	5113.3	5332.2	6736.2	8883.2	10980.0	11108.4	8849.3	4562.3	1537.6	728.7	554.0
82.5°	2271.4	2422.5	3254.0	4534.7	6626.2	6791.6	4634.4	2390.6	949.7	443.0	333.0
85°	1490.3	1602.4	1975.4	2159.4	3155.3	3268.4	2268.3	1861.3	626.9	243.6	244.6
87.5°	1072.0	1179.9	1467.7	1281.6	1448.2	1371.1	1234.4	1722.6	251.8	138.7	82.3
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°	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0	5141.0
2.5°	5092.8	5076.3	5039.3	4969.4	4930.3	4897.4	4843.0	4811.1	4796.7	4795.7	4801.8
5°	4966.4	4928.3	4832.7	4715.5	4622.0	4536.7	4430.8	4367.1	4321.9	4295.2	4302.4
7.5°	4819.4	4759.7	4609.7	4422.6	4272.5	4107.1	3943.6	3846.0	3770.0	3713.4	3723.7
10°	4718.6	4636.4	4417.5	4148.2	3898.4	3657.9	3432.8	3298.2	3191.3	3109.0	3115.3
12.5°	4684.7	4573.7	4270.5	3910.7	3560.3	3231.4	2937.4	2730.8	2620.9	2527.4	2534.6
15°	4689.9	4540.8	4147.2	3696.9	3256.0	2841.9	2485.2	2243.7	2094.7	2029.9	2031.0
17.5°	4694.0	4502.8	4017.7	3467.8	2954.9	2478.0	2090.6	1846.0	1705.1	1645.5	1646.5
20°	4680.6	4441.2	3857.4	3204.7	2640.4	2144.0	1768.8	1561.2	1454.3	1408.1	1408.1
22.5°	4663.1	4368.1	3676.4	2940.5	2330.0	1854.2	1538.6	1380.4	1318.7	1287.9	1286.8
25°	4671.3	4313.6	3491.4	2669.2	2044.3	1622.8	1385.5	1280.6	1239.5	1220.0	1218.9
27.5°	4715.5	4288.0	3320.8	2398.9	1794.5	1449.2	1282.6	1208.7	1181.9	1169.7	1169.7
30°	4795.7	4288.0	3143.0	2168.6	1586.9	1320.7	1203.6	1153.2	1134.7	1126.4	1126.4
32.5°	4935.5	4311.6	2971.4	1940.5	1421.4	1220.0	1137.8	1103.9	1089.4	1085.3	1085.3
35°	5176.0	4391.8	2803.9	1724.7	1287.9	1137.8	1075.1	1055.5	1045.3	1044.3	1047.3
37.5°	5514.1	4555.2	2646.6	1565.4	1193.3	1071.0	1022.7	1007.3	1001.0	1006.3	1010.4
40°	5939.6	4777.2	2503.7	1421.4	1121.3	1017.5	974.3	964.1	961.0	968.2	974.3
42.5°	6453.6	5077.3	2386.5	1317.7	1065.8	972.3	933.2	920.9	917.9	926.1	934.2
45°	7009.6	5400.1	2304.3	1240.5	1022.7	938.3	897.3	883.9	877.7	881.8	891.1
47.5°	7515.3	5705.3	2271.4	1186.0	981.6	909.6	865.4	848.9	838.7	836.6	843.8
50°	7941.8	5932.5	2286.9	1153.2	948.7	877.7	834.6	816.0	800.7	791.4	796.6
52.5°	8252.2	6075.3	2301.2	1138.8	923.0	842.8	800.7	783.2	762.7	747.2	747.2
55°	8477.3	6108.2	2269.3	1127.5	903.4	804.8	762.7	746.2	725.6	708.2	706.1
57.5°	8565.7	6015.7	2151.2	1111.1	890.1	768.8	722.5	710.2	692.7	672.2	671.2
60°	8446.4	5729.9	1923.0	1076.1	872.6	739.0	682.5	674.3	666.1	646.5	645.5
62.5°	7967.4	5103.0	1628.1	1005.1	837.6	707.1	645.5	649.6	650.6	637.3	635.2
65°	7099.0	4241.7	1340.2	912.6	785.2	669.1	607.5	626.9	638.3	636.2	633.1
67.5°	5836.9	3301.3	1135.7	815.0	716.4	616.7	566.3	588.9	598.1	605.4	603.3
70°	4332.2	2327.9	939.4	712.3	633.1	555.0	512.9	524.2	518.0	526.2	529.3
72.5°	2415.3	1396.8	765.7	609.5	546.8	483.1	453.3	451.2	437.8	437.8	437.8
74°	1449.2	1024.7	673.2	545.8	494.4	435.8	410.1	400.8	388.5	389.6	388.5
75°	1165.6	880.8	617.7	503.6	457.4	408.0	382.3	370.0	360.8	360.8	359.8
77.5°	735.9	669.1	497.4	400.8	365.9	336.1	318.6	302.2	302.2	301.2	300.1
80°	556.0	532.4	387.5	303.2	280.6	257.9	246.7	239.5	239.5	242.6	241.6
82.5°	381.3	400.8	272.4	211.7	200.4	184.0	181.9	183.0	179.9	175.8	174.8
85°	278.5	301.2	184.0	133.6	122.3	112.1	120.3	124.4	119.2	110.0	105.8
87.5°	106.8	197.3	98.7	55.5	51.4	44.2	51.4	53.5	57.6	45.2	46.2
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)