

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: P318812

Luminaire Tested: **GAN-SA8C-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318812
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-SA8C-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA 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: 57027 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

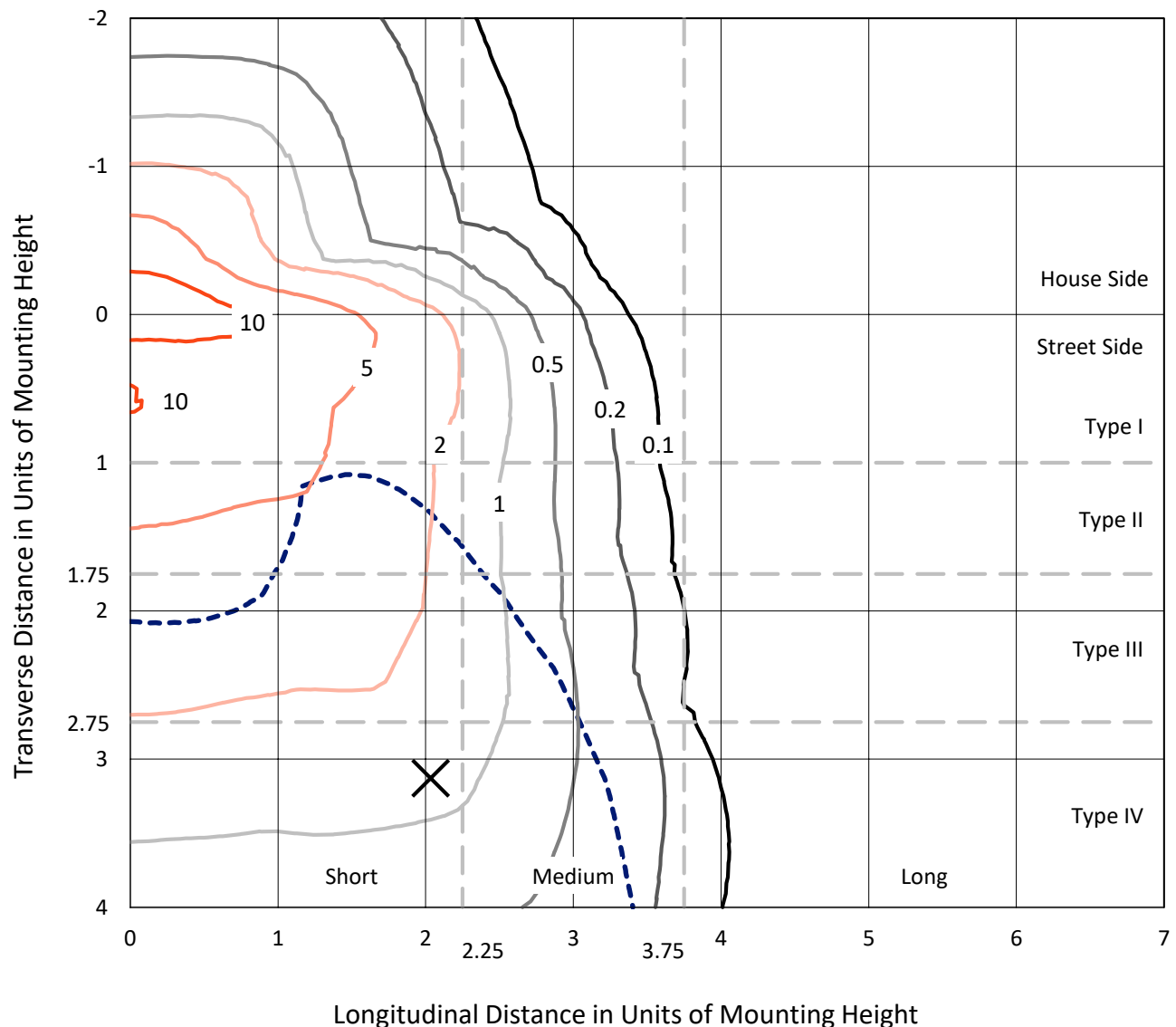
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318812
 CATALOG NUMBER: GAN-SA8C-760-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

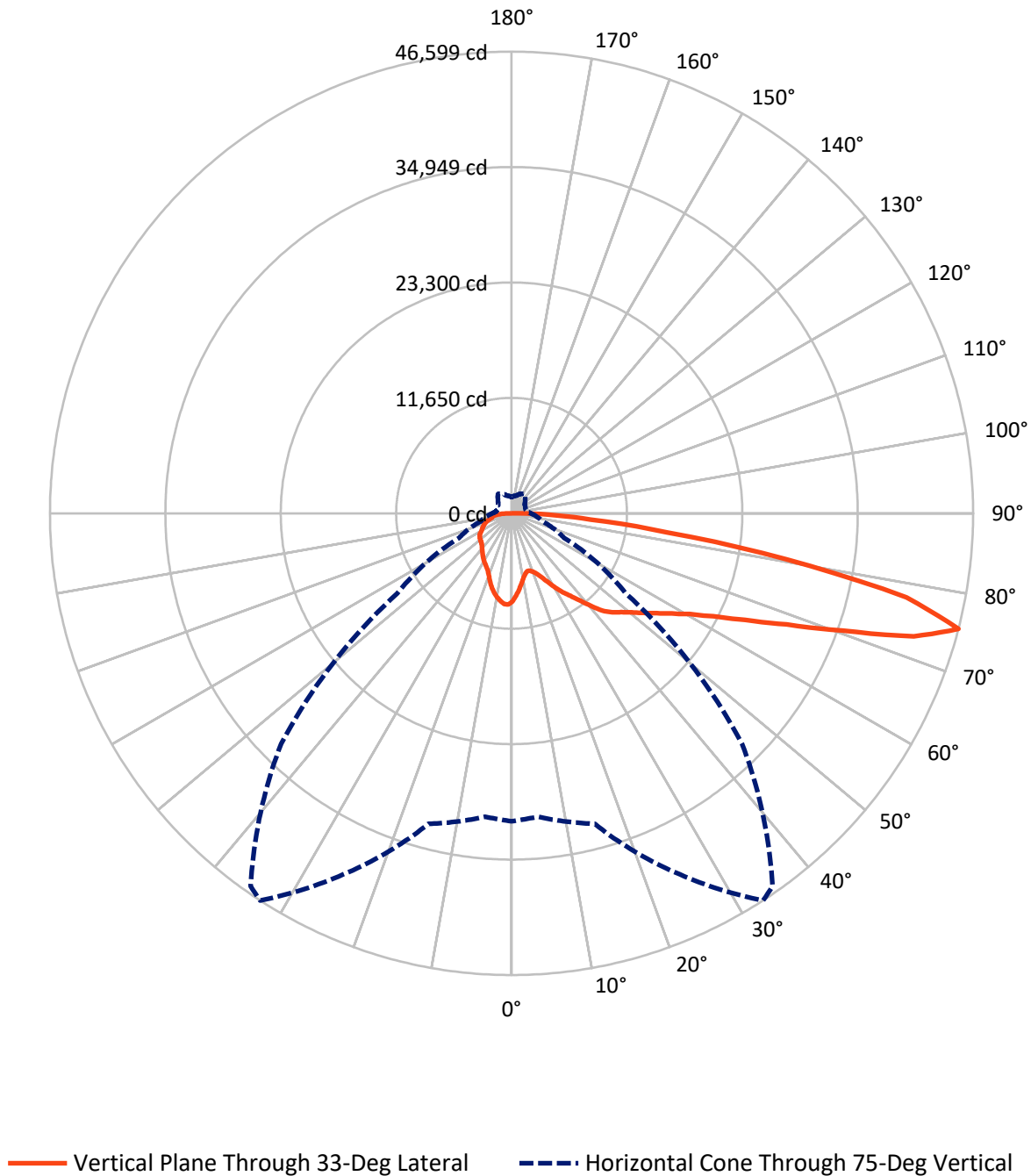
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P318812
CATALOG NUMBER: GAN-SA8C-760-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12245.2	0.0	12245.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	44781.8	0.0	44781.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	57027.0	0.0	57027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.1	1.4
10°-20°	2183.3	3.8
20°-30°	3565.7	6.3
30°-40°	5310.2	9.3
40°-50°	7616.2	13.4
50°-60°	10455.9	18.3
60°-70°	13090.3	23.0
70°-80°	11842.2	20.8
80°-90°	2157.1	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°	57027.0	100.0
0°-180°	57027.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318812

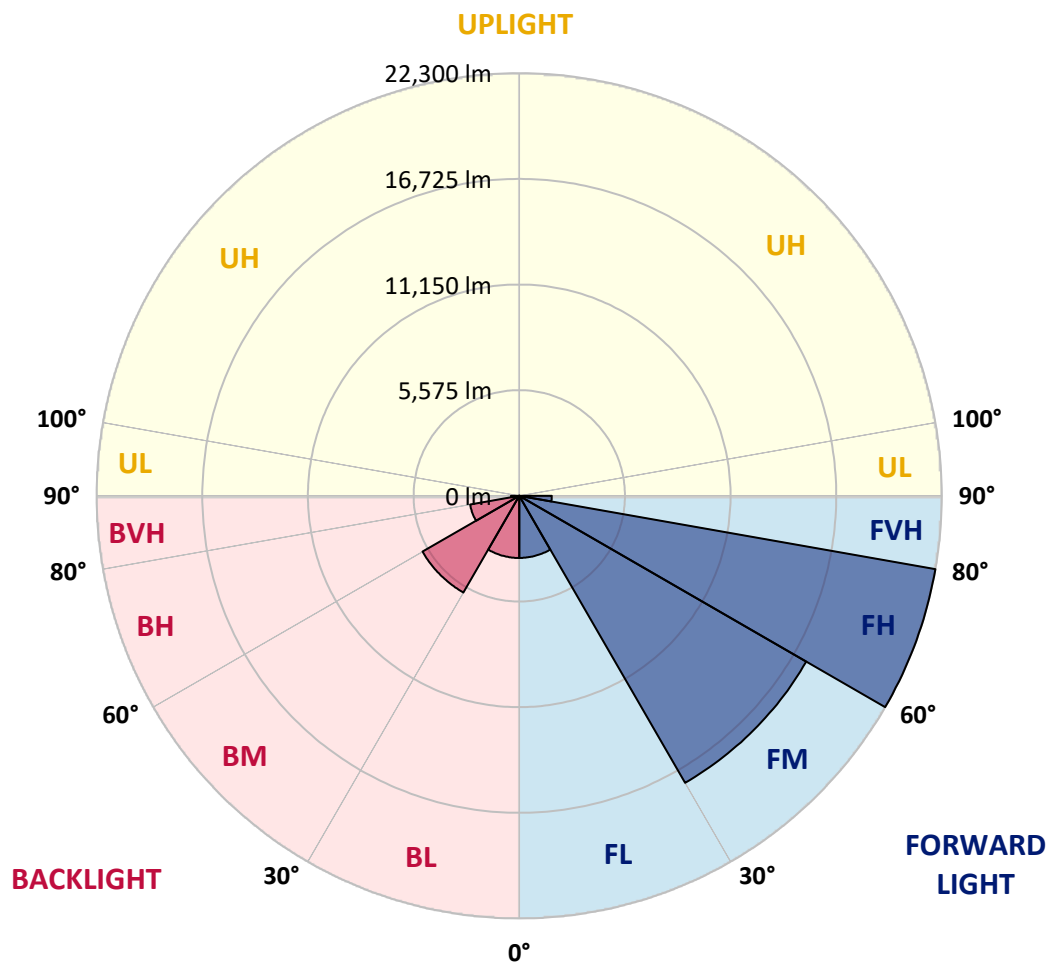
CATALOG NUMBER: GAN-SA8C-760-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3275.3	5.7			
FM	(30°-60°)	17489.0	30.7			
FH	(60°-80°)	22299.5	39.1			G5
FVH	(80°-90°)	1718.0	3.0			G5
BL	(0°-30°)	3279.8	5.8	B4/5000		
BM	(30°-60°)	5893.3	10.3	B4/8500		
BH	(60°-80°)	2632.9	4.6	B4/5000		G4/5000
BVH	(80°-90°)	439.2	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 IV Short





REPORT NUMBER: P318812

CATALOG NUMBER: GAN-SA8C-760-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6
2.5°	8277.4	8245.9	8305.0	8312.8	8364.0	8383.7	8454.7	8565.0	8655.6	8760.0	8854.5
5°	7526.9	7505.2	7587.9	7647.0	7759.3	7806.6	7974.0	8208.4	8417.2	8653.6	8868.3
7.5°	6813.8	6801.9	6894.5	7028.5	7158.5	7223.5	7513.1	7853.9	8202.5	8584.7	8913.6
10°	6213.0	6209.0	6297.7	6429.6	6620.7	6693.6	7067.9	7517.0	8005.5	8531.5	8990.5
12.5°	5876.1	5889.9	5931.3	6041.6	6218.9	6291.7	6707.4	7235.3	7840.1	8513.8	9102.7
15°	5958.8	5980.5	5909.6	5905.7	6031.7	6088.9	6478.9	7034.4	7721.9	8543.3	9266.2
17.5°	6311.4	6315.4	6128.3	6010.1	6086.9	6116.4	6408.0	6920.1	7652.9	8610.3	9471.1
20°	6807.9	6798.0	6467.1	6270.1	6311.4	6319.3	6508.4	6922.1	7647.0	8726.5	9737.0
22.5°	7465.8	7392.9	6947.7	6679.8	6670.0	6658.1	6766.5	7067.9	7733.7	8915.6	10054.2
25°	8324.7	8255.7	7643.1	7276.7	7197.9	7168.3	7184.1	7379.1	7905.1	9118.5	10408.8
27.5°	9280.0	9159.9	8568.9	8050.8	7887.3	7846.0	7751.4	7818.4	8092.2	9313.5	10830.3
30°	10079.8	10014.8	9498.7	8884.1	8691.0	8631.9	8383.7	8310.9	8362.1	9579.5	11362.2
32.5°	10527.0	10483.6	10170.4	9674.0	9494.8	9412.0	9061.4	8915.6	8795.4	9999.0	12083.2
35°	11068.7	11041.1	10852.0	10491.5	10225.6	10138.9	9867.1	9715.4	9406.1	10576.2	13014.9
37.5°	11758.1	11728.6	11732.5	11441.0	11123.8	11043.1	10863.8	10704.2	10198.0	11334.6	14027.4
40°	12538.2	12481.1	12459.4	12445.6	12244.7	12199.4	12104.8	11888.1	11190.8	12240.7	15026.1
42.5°	13712.2	13509.3	13076.0	13239.5	13438.4	13414.8	13491.6	13180.4	12293.9	13312.3	16001.2
45°	14844.9	14512.0	13763.4	13798.9	14234.2	14366.2	14941.4	14720.8	13489.6	14486.4	17009.8
47.5°	15361.0	15108.9	14472.6	14474.6	14906.0	15179.8	16440.5	16282.9	14746.4	15820.0	18241.0
50°	15938.2	15686.0	15114.8	15329.5	15705.7	15997.3	17888.3	17807.6	15942.1	17279.7	19716.4
52.5°	16568.5	16141.1	15778.6	16162.7	16690.7	17029.5	19338.2	19117.5	17039.3	18749.2	21412.4
55°	16576.4	16460.2	16736.0	17017.7	17807.6	18223.2	20856.9	20273.9	17933.7	20193.1	22793.3
57.5°	17520.0	17330.9	17915.9	18045.9	19078.1	19547.0	22367.8	21280.5	18843.7	21300.2	23537.9
60°	18768.9	18607.3	19086.0	19428.8	20650.1	21276.5	23981.1	22314.6	19558.8	22135.4	23502.5
62.5°	20925.9	20742.7	20736.8	21217.4	22862.3	23591.1	25791.4	23329.1	19842.5	22300.8	22499.8
65°	24083.6	23792.0	23242.4	23470.9	25917.5	26644.4	27814.5	24063.9	19468.2	21414.4	19917.3
67.5°	27156.6	27146.7	26471.0	26939.9	29951.8	30534.9	30119.2	24136.8	18300.0	18327.6	15335.4
70°	30219.7	30259.1	30144.8	31775.9	35402.4	36009.1	32573.7	23157.7	15674.2	13235.5	9187.5
72.5°	32646.6	32636.7	33211.9	37417.6	42476.2	42340.3	34642.0	20191.1	11253.8	7144.7	4390.8
75°	31074.6	30731.9	32445.6	40210.9	46599.1	45935.3	32883.0	14084.5	5840.7	3252.2	2363.8
77.5°	20267.9	20593.0	23108.5	33217.8	40760.4	39952.8	24124.9	6571.5	2751.9	2133.4	1713.8
80°	7339.7	7682.5	10820.5	18816.2	28082.4	27950.4	11880.3	2700.7	1861.5	1611.3	1248.9
82.5°	2525.4	2651.4	4268.7	8356.2	15855.4	16446.4	4469.6	1534.5	1353.3	1142.5	854.9
85°	990.8	1134.6	1952.1	4020.5	7997.7	8056.7	1810.3	918.0	941.6	748.5	468.8
87.5°	376.2	457.0	933.7	1867.4	3652.1	3354.7	648.1	437.3	535.8	445.2	222.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P318812

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6	8913.6
2.5°	8927.4	8968.8	9055.5	9114.6	9177.6	9195.3	9203.2	9219.0	9234.7	9228.8	9230.8
5°	8982.6	9063.3	9203.2	9262.3	9289.9	9258.4	9197.3	9148.1	9112.6	9092.9	9087.0
7.5°	9073.2	9187.5	9337.2	9327.3	9264.3	9124.4	8966.8	8848.6	8750.1	8714.7	8695.0
10°	9193.4	9327.3	9431.7	9319.4	9136.2	8893.9	8657.6	8474.4	8326.6	8269.5	8259.6
12.5°	9347.0	9482.9	9502.6	9264.3	8960.9	8630.0	8308.9	8066.6	7846.0	7775.1	7759.3
15°	9546.0	9674.0	9551.9	9167.8	8744.2	8299.0	7883.4	7554.4	7322.0	7235.3	7203.8
17.5°	9754.8	9876.9	9561.7	9008.2	8460.6	7907.0	7385.0	7048.2	6782.2	6681.8	6670.0
20°	10004.9	10060.1	9520.4	8779.7	8070.5	7398.8	6849.2	6532.1	6390.2	6319.3	6311.4
22.5°	10314.2	10255.1	9425.8	8470.4	7576.1	6811.8	6364.6	6216.9	6181.4	6165.7	6171.6
25°	10641.2	10460.0	9285.9	8066.6	6951.7	6224.8	6010.1	6051.4	6098.7	6092.8	6092.8
27.5°	11001.7	10668.8	9071.2	7530.8	6260.2	5744.1	5769.7	5921.4	5992.3	5990.4	5988.4
30°	11464.6	10905.2	8797.4	6886.6	5614.1	5405.3	5560.9	5746.1	5842.6	5838.7	5840.7
32.5°	12033.9	11165.2	8425.1	6167.6	5147.3	5155.1	5334.4	5517.6	5629.9	5620.0	5622.0
35°	12699.7	11456.7	7920.8	5458.5	4838.0	4956.2	5098.0	5226.1	5332.4	5318.6	5304.8
37.5°	13424.6	11742.4	7251.1	4824.2	4585.8	4771.0	4889.2	4910.9	4960.1	4924.7	4899.1
40°	14114.1	11961.0	6388.3	4304.2	4331.7	4613.4	4690.2	4603.6	4514.9	4503.1	4467.7
42.5°	14714.9	12033.9	5515.6	3888.5	4063.8	4448.0	4495.2	4314.0	4154.4	4079.6	4048.1
45°	15349.2	12059.5	4702.1	3539.8	3805.8	4300.2	4351.4	4109.1	3884.6	3723.0	3669.9
47.5°	16178.5	12244.7	4069.7	3281.8	3608.8	4201.7	4274.6	3945.6	3654.1	3423.6	3374.4
50°	17263.9	12611.1	3555.6	3084.8	3480.8	4136.7	4219.5	3786.1	3465.0	3187.2	3138.0
52.5°	18469.5	12947.9	3140.0	2925.2	3356.7	4022.5	4148.5	3671.8	3287.7	2968.6	2915.4
55°	19312.6	12689.9	2805.1	2759.8	3195.1	3859.0	4050.0	3575.3	3033.6	2755.8	2708.6
57.5°	19474.1	11807.4	2551.0	2588.4	3000.1	3654.1	3898.4	3360.6	2895.7	2663.3	2614.0
60°	19032.8	10578.2	2361.9	2430.8	2791.3	3396.0	3614.7	3208.9	2763.7	2564.8	2523.4
62.5°	17923.8	9319.4	2222.0	2289.0	2596.3	3134.1	3437.4	3049.4	2629.8	2452.5	2411.1
65°	15684.1	7824.3	2088.1	2162.9	2415.1	2907.5	3277.9	2901.6	2497.8	2361.9	2322.5
67.5°	11838.9	5860.3	1962.0	2029.0	2253.5	2710.5	3104.5	2755.8	2369.7	2283.1	2235.8
70°	6971.4	3669.9	1818.2	1889.1	2084.1	2505.7	2919.3	2596.3	2210.2	2170.8	2109.7
72.5°	3244.4	2208.2	1654.7	1723.6	1871.4	2231.9	2681.0	2387.5	2021.1	1934.4	1851.7
75°	1936.4	1615.3	1461.6	1522.7	1627.1	1940.3	2381.6	2174.7	1841.8	1727.6	1640.9
77.5°	1447.9	1235.1	1248.9	1313.9	1398.6	1698.0	2109.7	2007.3	1703.9	1615.3	1556.2
80°	1042.1	937.7	1018.4	1089.3	1178.0	1544.4	2021.1	1855.6	1540.4	1422.2	1367.1
82.5°	695.4	673.7	766.3	839.2	925.8	1351.3	1899.0	1625.1	1315.9	1166.2	1044.0
85°	384.1	405.8	516.1	547.6	622.5	951.4	1556.2	1306.0	990.8	797.8	762.3
87.5°	159.6	187.1	277.8	267.9	330.9	567.3	1024.3	787.9	630.4	470.8	366.4
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)