

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: P321752

Luminaire Tested: **GAN-SA8A-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22827 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

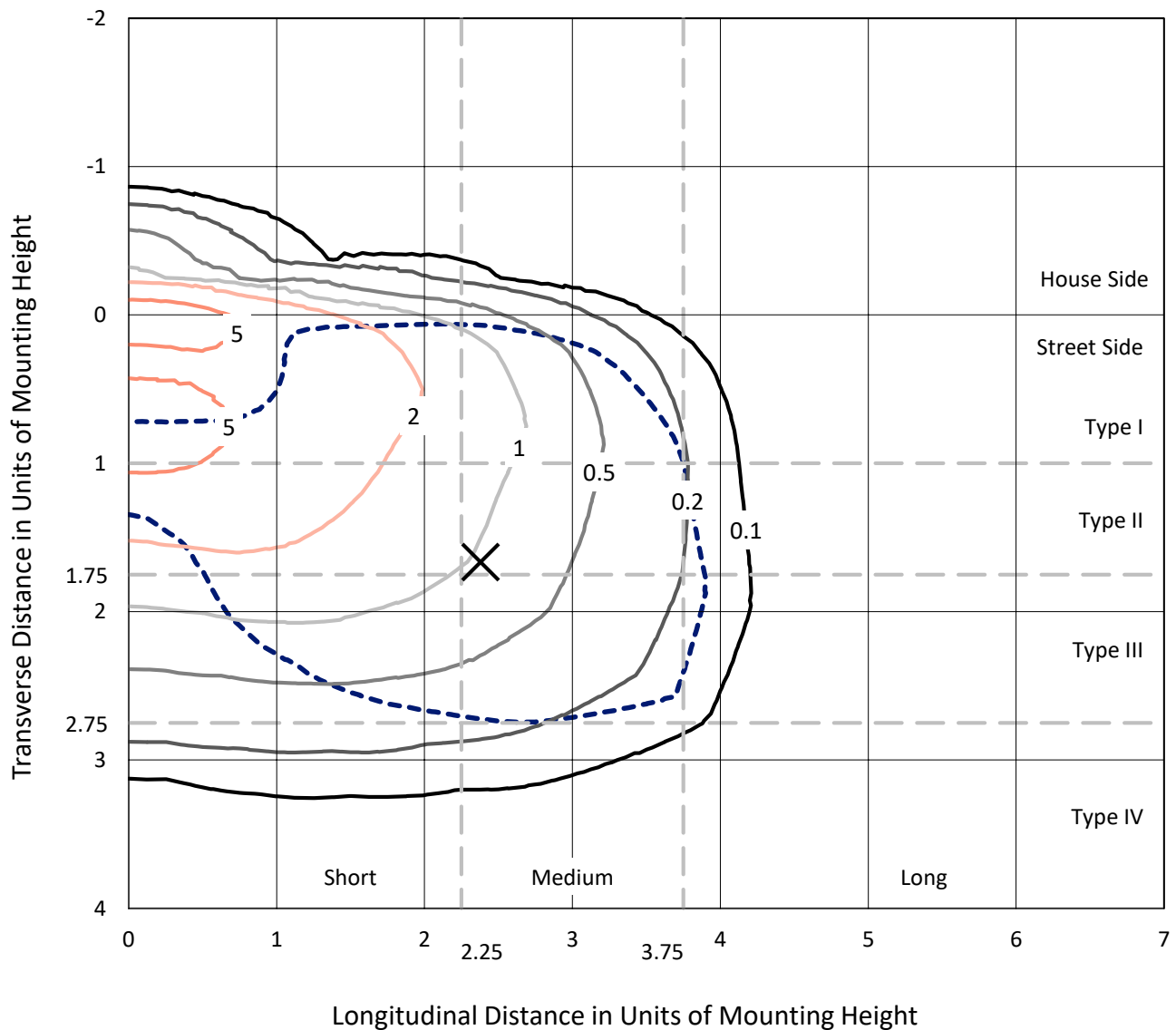
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

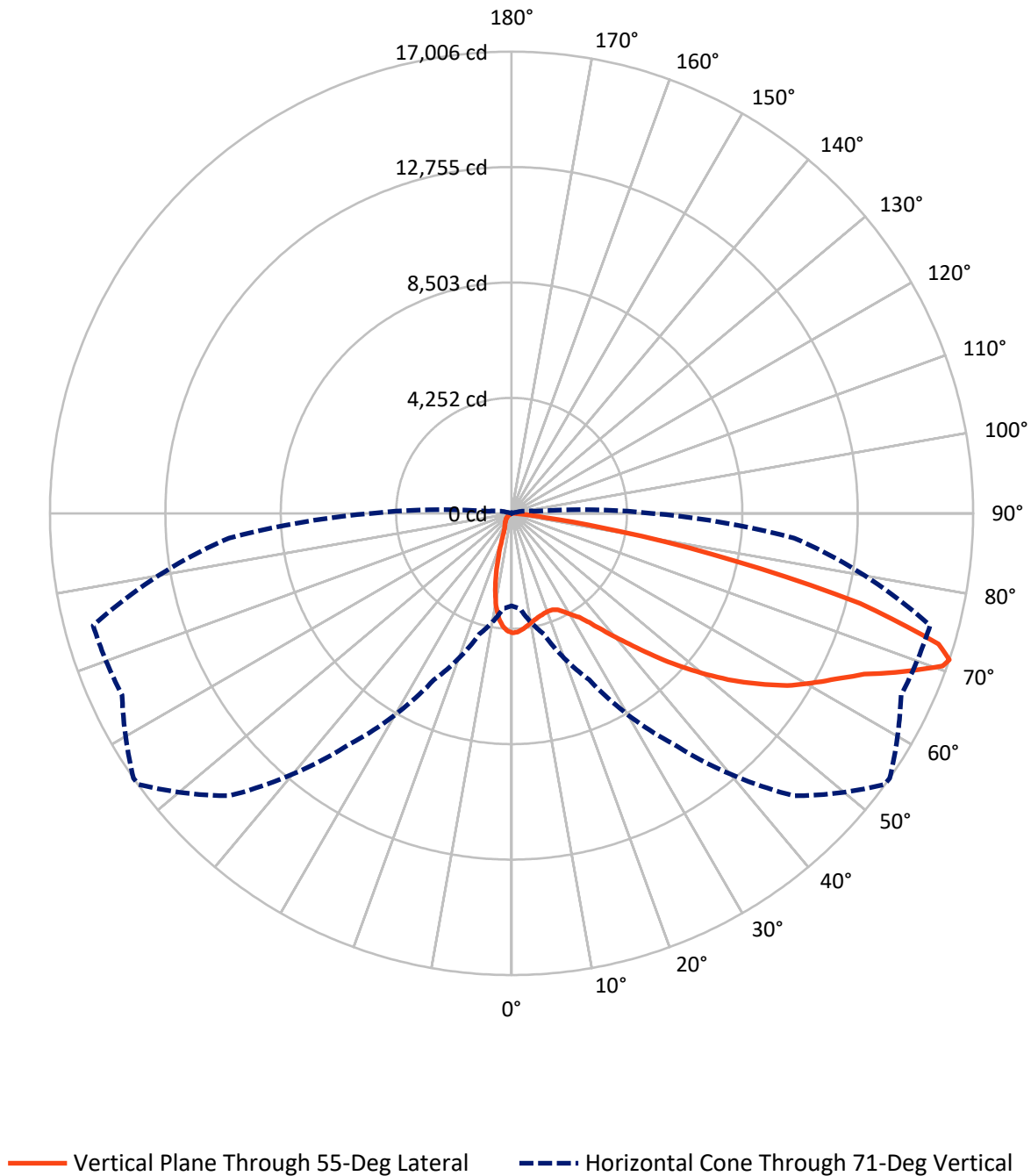
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1807.3	0.0	1807.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	21019.7	0.0	21019.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	22827.0	0.0	22827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.4	1.6
10°-20°	847.4	3.7
20°-30°	1361.8	6.0
30°-40°	2313.7	10.1
40°-50°	3591.2	15.7
50°-60°	4828.3	21.2
60°-70°	5906.6	25.9
70°-80°	3453.4	15.1
80°-90°	149.3	0.7
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°	22827.0	100.0
0°-180°	22827.0	100.0

Coefficient of Utilization



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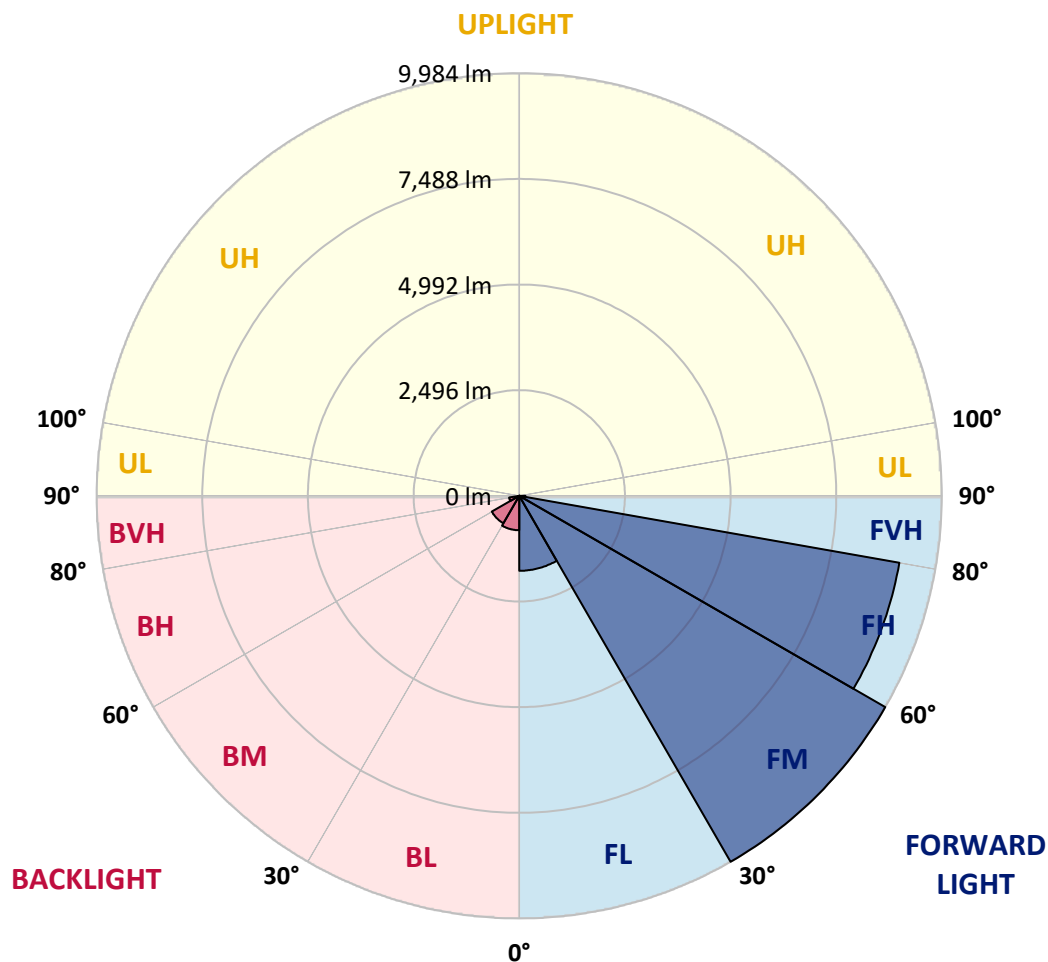
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1771.1	7.8			
FM	(30°-60°)	9983.9	43.7			
FH	(60°-80°)	9117.9	39.9			G4/12000
FVH	(80°-90°)	146.9	0.6			G2/225
BL	(0°-30°)	813.5	3.6	B2/1000		
BM	(30°-60°)	749.3	3.3	B1/1000		
BH	(60°-80°)	242.1	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3
2.5°	4273.1	4278.2	4296.7	4304.9	4324.4	4357.2	4373.6	4374.6	4401.2	4411.5	4419.7
5°	3970.8	4001.5	4032.3	4065.1	4124.5	4203.4	4281.3	4288.5	4374.6	4438.1	4472.0
7.5°	3710.4	3738.1	3775.0	3827.3	3911.3	4035.3	4165.5	4180.9	4343.8	4488.4	4564.2
10°	3442.9	3465.4	3518.7	3595.6	3711.4	3877.5	4052.8	4078.4	4316.2	4556.0	4689.3
12.5°	3156.9	3170.2	3234.8	3345.5	3515.7	3726.8	3957.4	3991.3	4298.7	4633.9	4836.9
15°	2939.6	2945.8	3007.3	3122.1	3316.8	3591.5	3883.6	3924.6	4302.8	4727.2	4997.8
17.5°	2884.3	2887.4	2920.2	2999.1	3171.3	3470.6	3825.2	3875.4	4315.1	4818.4	5159.7
20°	3108.8	3087.2	3053.4	3041.1	3114.9	3397.8	3790.4	3846.7	4331.5	4899.4	5305.3
22.5°	3724.8	3661.2	3520.8	3333.2	3219.4	3402.9	3799.6	3856.0	4383.8	4998.8	5473.4
25°	4639.0	4550.9	4312.1	3943.1	3588.4	3550.5	3876.5	3933.9	4485.3	5117.7	5634.3
27.5°	5679.4	5592.3	5300.1	4773.3	4168.6	3842.6	4052.8	4106.1	4636.0	5223.3	5757.3
30°	6675.7	6651.1	6306.7	5708.1	4898.4	4316.2	4280.3	4325.4	4747.7	5286.8	5854.7
32.5°	7520.2	7481.3	7204.6	6622.4	5733.7	4885.0	4547.8	4561.1	4831.7	5368.8	5981.8
35°	8303.3	8255.2	8012.2	7461.8	6590.6	5580.0	4959.9	4940.4	5015.2	5533.8	6166.3
37.5°	8987.0	9031.1	8761.5	8237.7	7359.3	6302.6	5515.4	5457.0	5302.2	5802.4	6433.8
40°	9558.9	9558.9	9418.5	8981.9	8189.6	7049.8	6143.7	6066.8	5733.7	6216.5	6773.0
42.5°	9764.9	9809.0	9861.3	9614.3	8932.7	7826.7	6843.8	6763.8	6341.5	6803.8	7201.5
45°	9777.2	9846.9	10114.5	10113.4	9604.0	8598.5	7633.0	7595.1	7120.5	7558.2	7732.4
47.5°	9604.0	9691.1	10131.9	10382.0	10136.0	9317.0	8496.0	8448.9	8035.8	8482.7	8288.0
50°	9336.5	9432.8	9945.3	10487.5	10497.8	9942.3	9405.2	9334.4	9043.4	9539.4	8861.9
52.5°	8857.8	9044.4	9778.3	10512.1	10735.6	10482.4	10270.3	10239.5	10170.8	10557.2	9319.1
55°	7833.9	8040.9	9359.0	10520.3	10956.0	10961.1	11081.0	11089.2	11227.6	11508.4	9659.4
57.5°	7350.1	7466.9	8627.2	10559.3	11282.9	11504.3	11907.1	11970.7	12184.9	12411.4	10047.8
60°	7045.7	7184.1	8266.4	10506.0	11796.4	12216.7	12672.8	12694.3	12923.9	13343.1	10573.6
62.5°	6802.8	6939.1	8038.9	10301.0	12373.5	13073.6	13421.0	13423.1	13595.3	14453.2	11171.2
65°	6203.2	6317.9	7578.7	10070.4	12754.8	13921.2	14290.2	14276.9	14417.3	15623.7	11865.1
67.5°	5336.0	5424.2	6638.8	9196.1	12611.3	14692.0	15602.2	15558.1	15388.0	16635.3	12137.8
70°	4125.5	4157.3	5232.5	7663.7	11266.5	14988.2	16870.1	16847.5	15983.5	16453.9	11138.4
71°	3410.1	3514.6	4611.4	6763.8	10365.6	14714.5	16993.1	17006.4	15833.8	15959.9	10450.6
72.5°	1980.3	2069.4	3342.4	5194.6	8800.4	13572.7	16355.5	16451.9	15134.8	14516.7	8926.5
75°	424.3	454.1	1239.2	2514.3	4841.0	9512.8	12909.6	13252.9	12335.6	9875.6	5380.1
77.5°	295.2	318.8	530.9	1140.8	1600.0	4700.5	8019.4	8406.8	7369.6	3711.4	1722.0
80°	233.7	260.3	414.1	563.7	432.5	1515.9	3756.5	3993.3	2457.9	828.2	290.1
82.5°	130.2	154.8	322.9	304.4	166.0	288.0	1051.6	1189.0	492.0	167.1	68.7
85°	37.9	46.1	208.1	221.4	70.7	55.3	179.4	222.4	93.3	44.1	30.7
87.5°	0.0	0.0	100.4	85.1	20.5	8.2	16.4	18.4	18.4	18.4	20.5
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°	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3	4402.3
2.5°	4419.7	4426.9	4401.2	4367.4	4331.5	4287.5	4241.3	4205.5	4204.4	4187.0	4169.6
5°	4474.0	4469.9	4399.2	4291.6	4164.5	4032.3	3906.2	3763.7	3716.6	3658.1	3638.7
7.5°	4574.5	4545.8	4396.1	4160.4	3881.6	3604.8	3318.9	3030.9	2907.9	2797.2	2777.7
10°	4700.5	4646.2	4376.6	3963.6	3452.1	2941.7	2510.2	2118.6	1946.4	1814.2	1808.1
12.5°	4831.7	4748.7	4322.3	3666.3	2889.4	2171.9	1674.8	1289.4	1145.9	1053.7	1061.9
15°	4969.1	4845.1	4205.5	3265.6	2248.8	1473.9	1029.1	802.6	745.2	721.6	727.7
17.5°	5109.5	4911.7	4042.5	2782.8	1616.4	951.2	712.4	648.8	648.8	653.9	656.0
20°	5231.5	4947.6	3802.7	2241.6	1095.7	692.9	623.2	614.0	619.1	627.3	628.3
22.5°	5352.4	4949.6	3490.0	1693.3	766.7	606.8	593.5	589.4	592.4	601.7	602.7
25°	5450.8	4925.0	3098.5	1204.3	611.9	571.9	565.8	563.7	565.8	577.1	577.1
27.5°	5490.8	4835.8	2620.9	846.6	548.4	533.0	530.9	533.0	536.1	544.3	545.3
30°	5494.9	4680.0	2100.2	612.9	497.1	480.7	484.8	492.0	488.9	486.9	488.9
32.5°	5505.1	4499.6	1592.8	504.3	454.1	428.4	423.3	423.3	411.0	403.8	399.7
35°	5539.0	4287.5	1155.1	453.0	410.0	380.3	360.8	338.2	314.7	302.4	299.3
37.5°	5592.3	4065.1	827.2	419.2	371.0	337.2	300.3	260.3	226.5	217.3	217.3
40°	5689.6	3835.5	611.9	392.6	340.3	298.3	242.9	190.6	159.9	154.8	154.8
42.5°	5843.4	3593.6	487.9	369.0	313.6	258.3	185.5	138.4	115.8	112.7	111.7
45°	6003.3	3327.1	426.4	346.4	284.9	212.2	137.3	102.5	89.2	86.1	86.1
47.5°	6163.2	3043.2	396.7	324.9	257.3	165.0	102.5	81.0	74.8	74.8	75.8
50°	6298.5	2746.9	375.1	301.3	221.4	125.0	81.0	68.7	66.6	70.7	71.7
52.5°	6332.3	2455.8	348.5	271.6	177.3	95.3	66.6	60.5	60.5	60.5	60.5
55°	6311.8	2230.3	313.6	234.7	131.2	75.8	57.4	53.3	52.3	52.3	52.3
57.5°	6381.5	2097.1	251.1	182.4	94.3	61.5	50.2	47.1	45.1	44.1	44.1
60°	6521.9	2010.0	179.4	131.2	70.7	51.2	43.0	40.0	36.9	34.8	34.8
62.5°	6708.5	1934.1	133.2	97.4	54.3	41.0	35.9	32.8	28.7	26.6	26.6
65°	6852.0	1798.8	101.5	72.8	41.0	32.8	27.7	26.6	20.5	18.4	17.4
67.5°	6632.6	1501.6	82.0	53.3	30.7	25.6	21.5	20.5	12.3	10.2	10.2
70°	5688.6	1045.5	65.6	38.9	22.5	20.5	17.4	13.3	9.2	8.2	8.2
71°	5158.7	873.3	59.4	32.8	19.5	19.5	16.4	11.3	8.2	7.2	7.2
72.5°	4285.4	620.1	50.2	25.6	17.4	20.5	17.4	10.2	8.2	7.2	6.1
75°	2487.6	259.3	34.8	17.4	13.3	24.6	22.5	9.2	6.1	5.1	5.1
77.5°	748.2	95.3	19.5	11.3	10.2	21.5	25.6	8.2	3.1	1.0	1.0
80°	136.3	41.0	12.3	7.2	7.2	13.3	19.5	4.1	0.0	0.0	0.0
82.5°	48.2	20.5	7.2	4.1	3.1	6.1	9.2	0.0	0.0	0.0	0.0
85°	27.7	14.3	4.1	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	18.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)