

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: P321721

Luminaire Tested: **GAN-SA7B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321721
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-SA7B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 22853 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

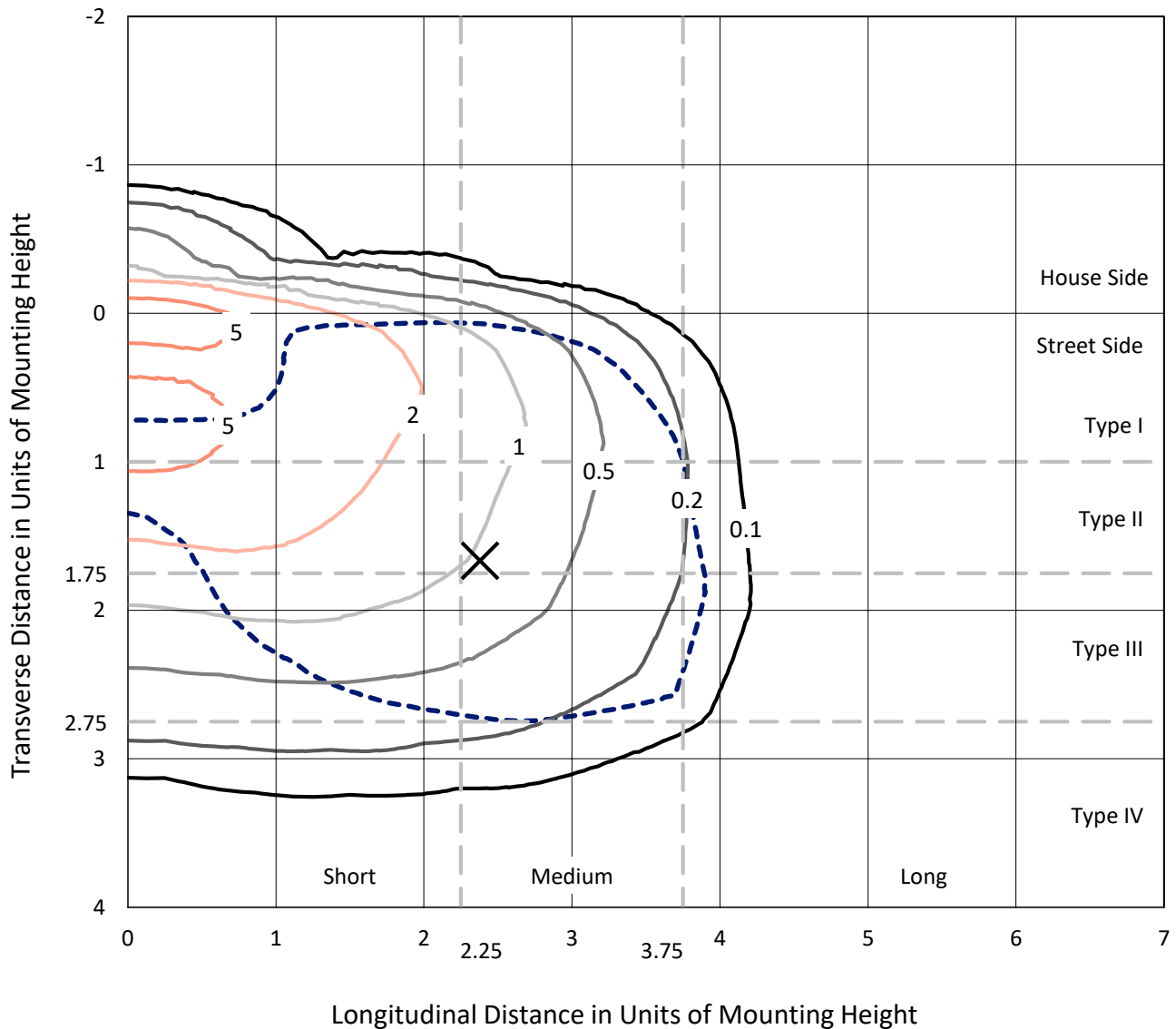
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

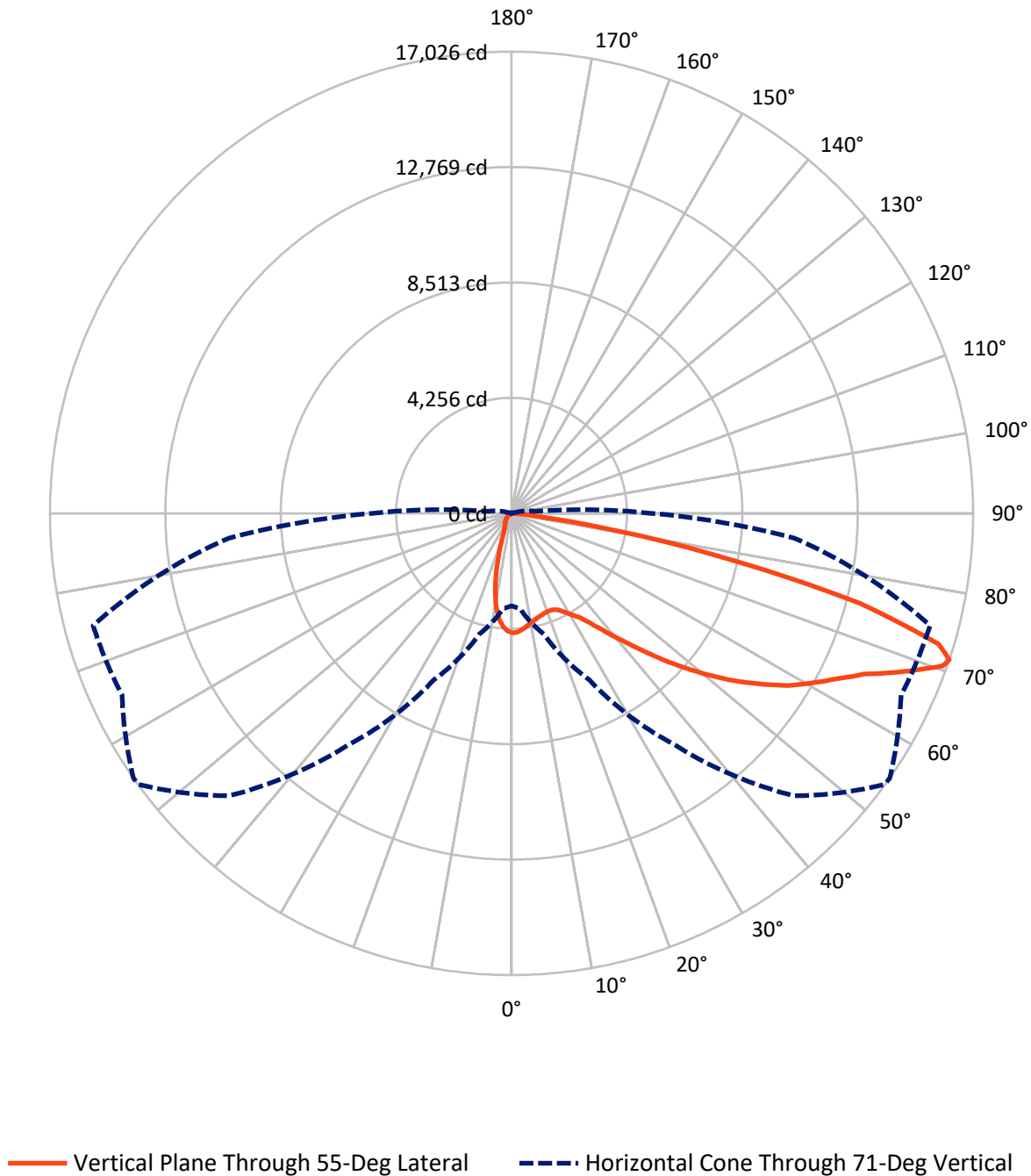
× Max cd
- - - 1/2 Max cd



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	1809.3	0.0	1809.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	21043.7	0.0	21043.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	22853.0	0.0	22853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	1.6
10°-20°	848.4	3.7
20°-30°	1363.3	6.0
30°-40°	2316.4	10.1
40°-50°	3595.3	15.7
50°-60°	4833.8	21.2
60°-70°	5913.3	25.9
70°-80°	3457.4	15.1
80°-90°	149.5	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°	22853.0	100.0
0°-180°	22853.0	100.0

Coefficient of Utilization



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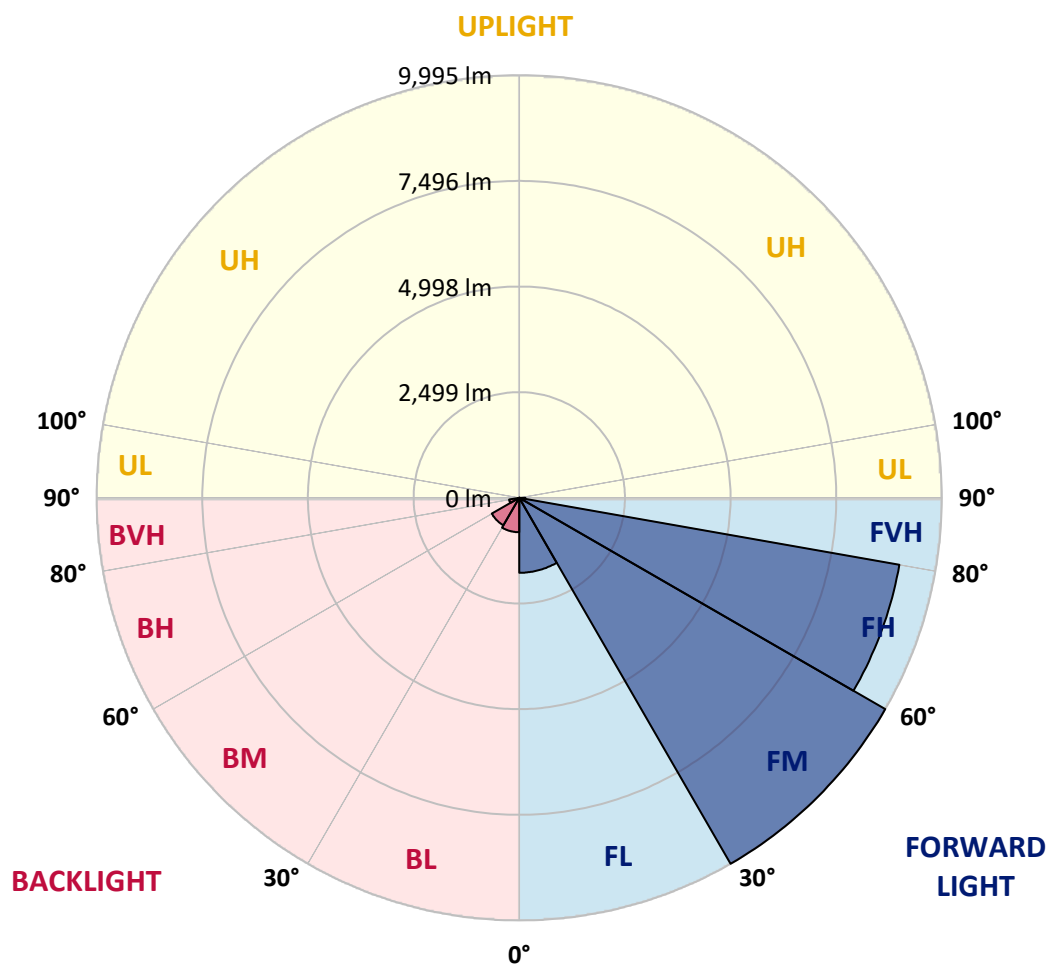
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.1	7.8			
FM	(30°-60°)	9995.2	43.7			
FH	(60°-80°)	9128.3	39.9			G4/12000
FVH	(80°-90°)	147.1	0.6			G2/225
BL	(0°-30°)	814.4	3.6	B2/1000		
BM	(30°-60°)	750.2	3.3	B1/1000		
BH	(60°-80°)	242.4	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°	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3
2.5°	4278.0	4283.1	4301.6	4309.8	4329.3	4362.1	4378.6	4379.6	4406.3	4416.5	4424.7
5°	3975.3	4006.1	4036.8	4069.7	4129.2	4208.2	4286.2	4293.4	4379.6	4443.2	4477.1
7.5°	3714.6	3742.3	3779.3	3831.6	3915.8	4039.9	4170.2	4185.6	4348.8	4493.5	4569.4
10°	3446.8	3469.4	3522.7	3599.7	3715.7	3881.9	4057.4	4083.0	4321.1	4561.2	4694.6
12.5°	3160.5	3173.9	3238.5	3349.3	3519.7	3731.1	3961.9	3995.8	4303.6	4639.2	4842.4
15°	2943.0	2949.1	3010.7	3125.6	3320.6	3595.6	3888.1	3929.1	4307.7	4732.6	5003.5
17.5°	2887.6	2890.6	2923.5	3002.5	3174.9	3474.5	3829.6	3879.8	4320.1	4823.9	5165.6
20°	3112.3	3090.7	3056.9	3044.6	3118.4	3401.7	3794.7	3851.1	4336.5	4905.0	5311.3
22.5°	3729.0	3665.4	3524.8	3337.0	3223.1	3406.8	3803.9	3860.3	4388.8	5004.5	5479.6
25°	4644.3	4556.1	4317.0	3947.6	3592.5	3554.6	3880.9	3938.3	4490.4	5123.5	5640.7
27.5°	5685.9	5598.6	5306.2	4778.7	4173.3	3847.0	4057.4	4110.7	4641.2	5229.2	5763.8
30°	6683.3	6658.6	6313.9	5714.6	4903.9	4321.1	4285.2	4330.3	4753.1	5292.8	5861.3
32.5°	7528.8	7489.8	7212.8	6629.9	5740.2	4890.6	4553.0	4566.3	4837.2	5374.9	5988.6
35°	8312.8	8264.6	8021.4	7470.3	6598.1	5586.3	4965.5	4946.0	5020.9	5540.1	6173.3
37.5°	8997.2	9041.3	8771.5	8247.1	7367.7	6309.8	5521.7	5463.2	5308.2	5809.0	6441.1
40°	9569.8	9569.8	9429.2	8992.1	8198.9	7057.8	6150.7	6073.7	5740.2	6223.6	6780.8
42.5°	9776.1	9820.2	9872.5	9625.2	8942.8	7835.6	6851.6	6771.5	6348.7	6811.5	7209.7
45°	9788.4	9858.2	10126.0	10125.0	9615.0	8608.3	7641.7	7603.7	7128.6	7566.8	7741.2
47.5°	9615.0	9702.2	10143.4	10393.8	10147.5	9327.6	8505.7	8458.5	8045.0	8492.4	8297.4
50°	9347.1	9443.6	9956.7	10499.5	10509.8	9953.6	9415.9	9345.1	9053.7	9550.3	8872.0
52.5°	8867.9	9054.7	9789.4	10524.1	10747.8	10494.4	10282.0	10251.2	10182.4	10569.3	9329.7
55°	7842.8	8050.1	9369.7	10532.3	10968.4	10973.6	11093.6	11101.8	11240.4	11521.5	9670.4
57.5°	7358.5	7475.4	8637.0	10571.3	11295.8	11517.4	11920.7	11984.3	12198.8	12425.6	10059.3
60°	7053.7	7192.2	8275.8	10518.0	11809.9	12230.6	12687.2	12708.8	12938.6	13358.3	10585.7
62.5°	6810.5	6947.0	8048.0	10312.7	12387.6	13088.5	13436.3	13438.4	13610.8	14469.6	11183.9
65°	6210.2	6325.1	7587.3	10081.9	12769.3	13937.1	14306.5	14293.1	14433.7	15641.5	11878.6
67.5°	5342.1	5430.3	6646.3	9206.6	12625.7	14708.7	15619.9	15575.8	15405.5	16654.3	12151.6
70°	4130.2	4162.0	5238.5	7672.5	11279.4	15005.3	16889.3	16866.7	16001.7	16472.7	11151.1
71°	3414.0	3518.6	4616.6	6771.5	10377.4	14731.3	17012.4	17025.8	15851.9	15978.1	10462.6
72.5°	1982.5	2071.8	3346.3	5200.5	8810.5	13588.2	16374.2	16470.6	15152.0	14533.3	8936.7
75°	424.8	454.6	1240.6	2517.1	4846.5	9523.6	12924.3	13268.0	12349.6	9886.9	5386.2
77.5°	295.5	319.1	531.5	1142.1	1601.8	4705.9	8028.5	8416.4	7378.0	3715.7	1723.9
80°	234.0	260.6	414.6	564.4	433.0	1517.7	3760.8	3997.9	2460.7	829.1	290.4
82.5°	130.3	154.9	323.2	304.8	166.2	288.3	1052.8	1190.3	492.5	167.3	68.8
85°	38.0	46.2	208.3	221.6	70.8	55.4	179.6	222.7	93.4	44.1	30.8
87.5°	0.0	0.0	100.6	85.2	20.5	8.2	16.4	18.5	18.5	18.5	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°	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3	4407.3
2.5°	4424.7	4431.9	4406.3	4372.4	4336.5	4292.4	4246.2	4210.3	4209.2	4191.8	4174.3
5°	4479.1	4475.0	4404.2	4296.5	4169.2	4036.8	3910.6	3768.0	3720.8	3662.3	3642.8
7.5°	4579.7	4550.9	4401.1	4165.1	3886.0	3608.9	3322.7	3034.3	2911.2	2800.3	2780.8
10°	4705.9	4651.5	4381.6	3968.1	3456.0	2945.0	2513.0	2121.0	1948.6	1816.3	1810.1
12.5°	4837.2	4754.1	4327.2	3670.5	2892.7	2174.4	1676.7	1290.9	1147.2	1054.9	1063.1
15°	4974.7	4850.6	4210.3	3269.3	2251.4	1475.6	1030.2	803.5	746.0	722.4	728.6
17.5°	5115.3	4917.3	4047.1	2786.0	1618.2	952.3	713.2	649.5	649.5	654.7	656.7
20°	5237.4	4953.2	3807.0	2244.2	1096.9	693.7	623.9	614.7	619.8	628.0	629.0
22.5°	5358.5	4955.2	3494.0	1695.2	767.6	607.5	594.1	590.0	593.1	602.3	603.4
25°	5457.0	4930.6	3102.0	1205.7	612.6	572.6	566.4	564.4	566.4	577.7	577.7
27.5°	5497.0	4841.3	2623.8	847.6	549.0	533.6	531.5	533.6	536.7	544.9	545.9
30°	5501.2	4685.4	2102.6	613.6	497.7	481.3	485.4	492.5	489.5	487.4	489.5
32.5°	5511.4	4504.8	1594.6	504.9	454.6	428.9	423.8	423.8	411.5	404.3	400.2
35°	5545.3	4292.4	1156.5	453.6	410.5	380.7	361.2	338.6	315.0	302.7	299.6
37.5°	5598.6	4069.7	828.1	419.7	371.5	337.6	300.7	260.6	226.8	217.5	217.5
40°	5696.1	3839.8	612.6	393.0	340.7	298.6	243.2	190.9	160.1	154.9	154.9
42.5°	5850.0	3597.7	488.4	369.4	314.0	258.6	185.7	138.5	116.0	112.9	111.8
45°	6010.1	3330.9	426.9	346.8	285.3	212.4	137.5	102.6	89.3	86.2	86.2
47.5°	6170.2	3046.6	397.1	325.3	257.6	165.2	102.6	81.1	74.9	74.9	75.9
50°	6305.6	2750.1	375.6	301.7	221.6	125.2	81.1	68.8	66.7	70.8	71.8
52.5°	6339.5	2458.6	348.9	271.9	177.5	95.4	66.7	60.5	60.5	60.5	60.5
55°	6319.0	2232.9	314.0	235.0	131.3	75.9	57.5	53.4	52.3	52.3	52.3
57.5°	6388.8	2099.5	251.4	182.7	94.4	61.6	50.3	47.2	45.2	44.1	44.1
60°	6529.3	2012.3	179.6	131.3	70.8	51.3	43.1	40.0	36.9	34.9	34.9
62.5°	6716.1	1936.3	133.4	97.5	54.4	41.0	35.9	32.8	28.7	26.7	26.7
65°	6859.8	1800.9	101.6	72.9	41.0	32.8	27.7	26.7	20.5	18.5	17.4
67.5°	6640.2	1503.3	82.1	53.4	30.8	25.7	21.5	20.5	12.3	10.3	10.3
70°	5695.1	1046.7	65.7	39.0	22.6	20.5	17.4	13.3	9.2	8.2	8.2
71°	5164.6	874.3	59.5	32.8	19.5	19.5	16.4	11.3	8.2	7.2	7.2
72.5°	4290.3	620.8	50.3	25.7	17.4	20.5	17.4	10.3	8.2	7.2	6.2
75°	2490.4	259.6	34.9	17.4	13.3	24.6	22.6	9.2	6.2	5.1	5.1
77.5°	749.1	95.4	19.5	11.3	10.3	21.5	25.7	8.2	3.1	1.0	1.0
80°	136.5	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	6.2	9.2	0.0	0.0	0.0	0.0
85°	27.7	14.4	4.1	2.1	0.0	1.0	2.1	0.0	0.0	0.0	0.0
87.5°	18.5	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)