

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: P649061

Luminaire Tested: **GLAN-SA7C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 30019.4 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

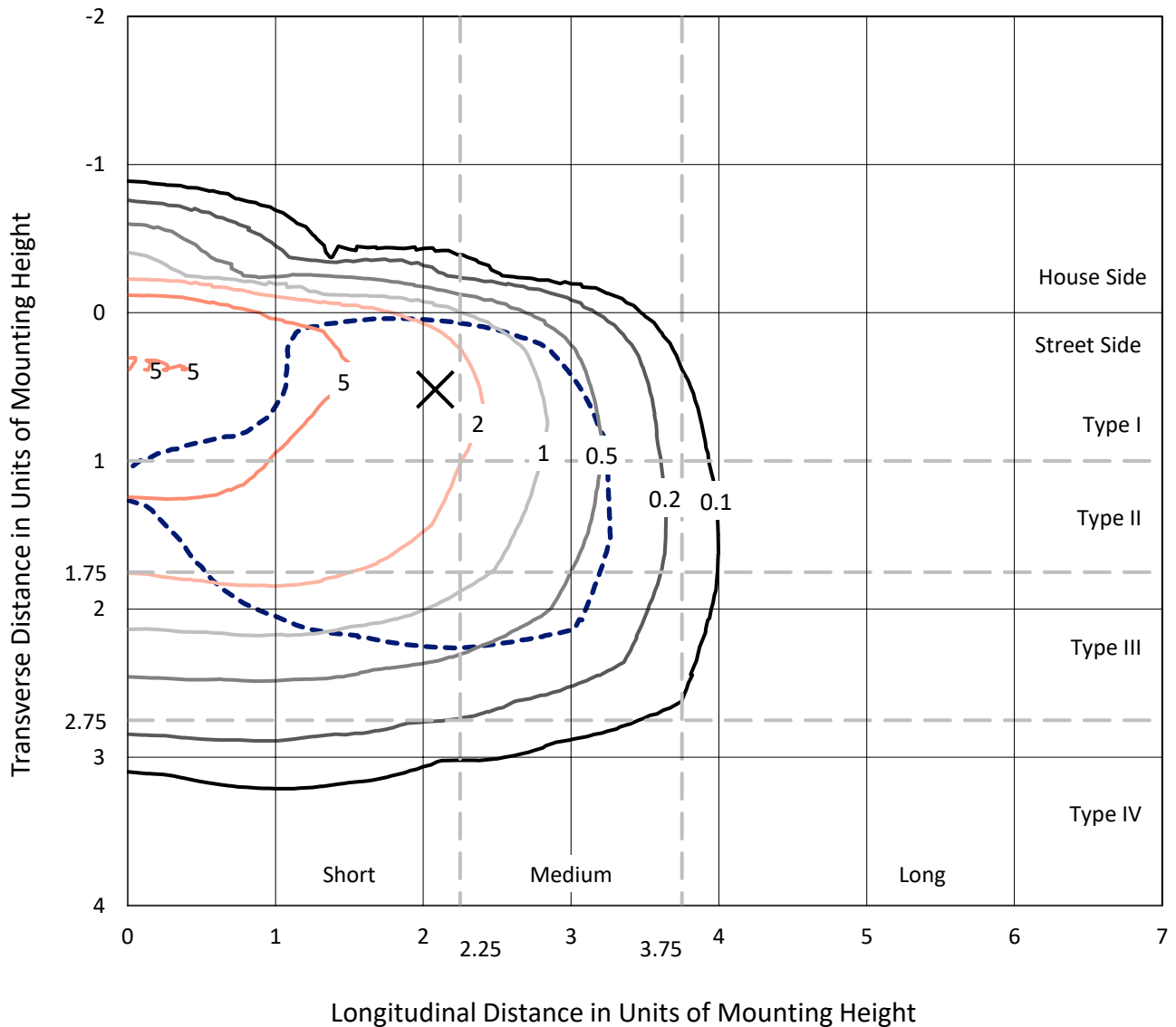
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

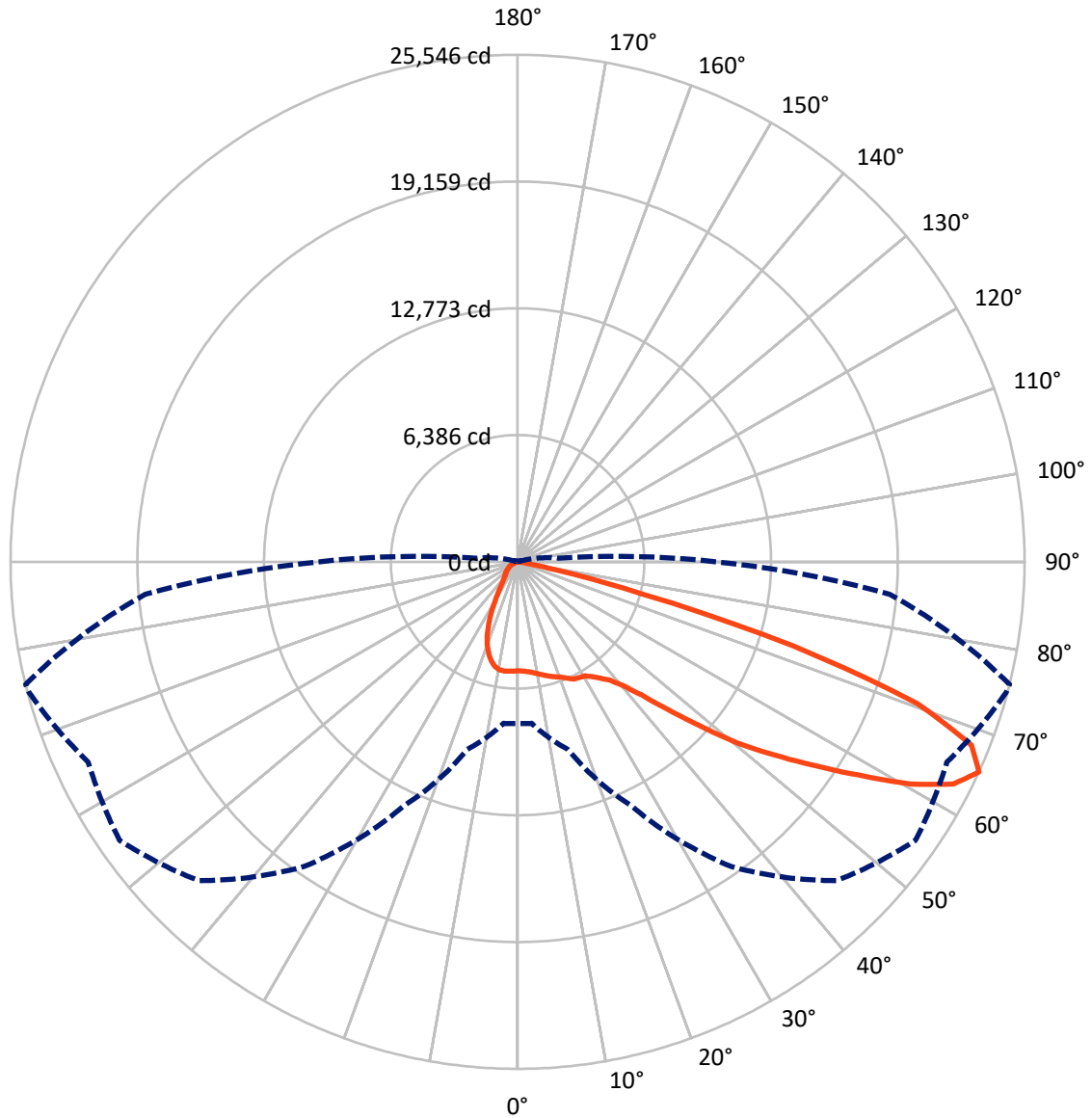
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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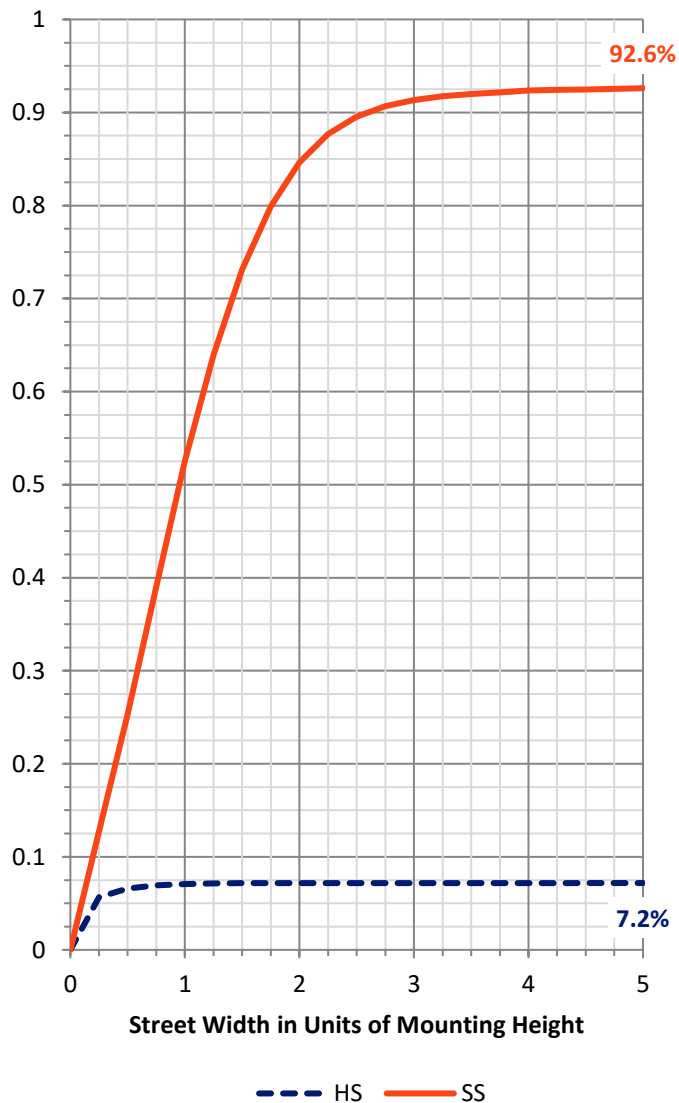
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2168.0	0.0	2168.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27851.4	0.0	27851.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	30019.4	0.0	30019.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.4	1.5
10°-20°	1007.2	3.4
20°-30°	1623.1	5.4
30°-40°	2822.1	9.4
40°-50°	4663.4	15.5
50°-60°	7204.0	24.0
60°-70°	8797.1	29.3
70°-80°	3338.7	11.1
80°-90°	111.4	0.4
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°	30019.4	100.0
0°-180°	30019.4	100.0

Coefficient of Utilization



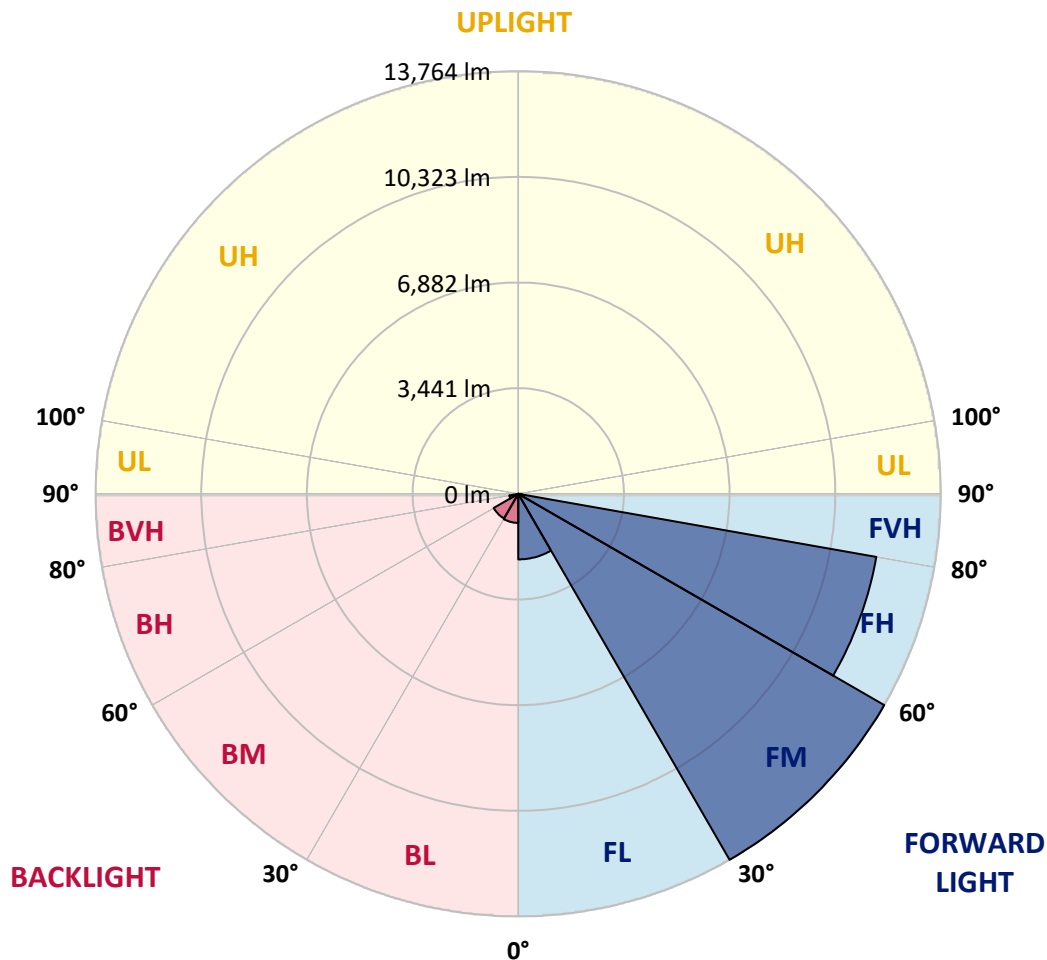
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2135.5	7.1			
FM (30°-60°)	13764.4	45.9			
FH (60°-80°)	11841.6	39.4			G4/12000
FVH (80°-90°)	109.9	0.4			G2/225
BL (0°-30°)	947.2	3.2	B2/1000		
BM (30°-60°)	925.2	3.1	B1/1000		
BH (60°-80°)	294.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5
2.5°	5247.7	5249.9	5262.6	5294.4	5343.1	5383.4	5417.3	5472.5	5510.6	5514.8	5527.5
5°	4885.4	4859.9	4885.4	4968.0	5042.2	5154.5	5292.3	5430.0	5553.0	5561.5	5620.8
7.5°	4478.4	4499.6	4539.9	4624.6	4764.6	4936.2	5135.5	5381.3	5614.4	5635.6	5752.2
10°	4065.1	4111.8	4177.5	4306.7	4501.7	4724.2	4995.5	5347.4	5711.9	5741.6	5943.0
12.5°	3683.6	3704.8	3785.3	3959.2	4200.8	4514.5	4889.6	5328.3	5820.0	5856.1	6146.4
15°	3391.1	3418.7	3488.7	3645.5	3914.6	4317.3	4802.7	5322.0	5926.0	5976.9	6349.9
17.5°	3336.0	3353.0	3382.6	3488.7	3723.9	4160.5	4724.2	5319.9	6027.8	6089.2	6538.5
20°	3562.8	3548.0	3518.3	3507.7	3637.0	4039.7	4667.1	5336.8	6125.3	6195.2	6737.7
22.5°	4130.8	4149.9	3976.1	3770.5	3728.1	4020.6	4658.5	5417.3	6280.0	6362.6	6960.3
25°	5336.8	5190.6	4919.3	4427.6	4056.6	4137.2	4753.9	5608.1	6460.1	6551.2	7161.6
27.5°	6669.9	6625.4	6203.6	5394.0	4703.1	4383.0	4923.5	5754.3	6519.4	6612.7	7276.1
30°	7979.8	8032.7	7549.5	6655.1	5642.0	4838.7	5082.5	5809.5	6572.4	6669.9	7422.4
32.5°	9194.2	9257.8	8833.9	7948.0	6748.4	5627.2	5355.9	6023.5	6795.0	6894.6	7666.0
35°	10150.1	10158.6	9838.6	9132.8	7956.5	6585.2	5947.2	6398.7	7095.9	7212.5	7924.7
37.5°	11027.5	11014.9	10639.6	10031.4	8963.2	7536.8	6691.1	6831.0	7439.3	7560.1	8297.7
40°	11678.2	11686.7	11565.8	10993.6	9902.1	8416.4	7280.3	7235.9	8015.8	8204.4	8840.2
42.5°	12112.7	12191.2	12250.4	11960.1	11082.7	9499.4	8185.3	8102.7	9016.2	9173.0	9607.5
45°	12464.5	12604.4	12901.1	12886.3	12216.5	10828.3	9427.3	9257.8	10434.1	10601.5	10584.6
47.5°	12721.0	12863.0	13354.7	13651.4	13282.7	12116.9	10989.4	10843.1	12127.5	12309.8	11663.3
50°	12852.4	13021.9	13649.3	14223.7	14115.6	13358.9	12769.7	12778.2	14172.8	14348.7	12913.9
52.5°	12545.1	12765.5	13806.2	14840.4	15050.3	14548.0	14437.7	14717.5	15993.4	16143.9	14043.5
55°	11563.7	11841.4	13592.1	15366.1	16133.3	15951.0	16332.5	16758.5	17983.6	18081.1	15202.9
57.5°	10942.7	11237.4	12960.5	15813.2	17434.7	17714.4	18318.4	18630.0	20037.4	20285.3	16533.9
60°	10419.2	10650.3	12441.2	15908.7	18757.2	19872.0	20459.1	20781.3	22572.2	22733.3	17998.4
62.5°	9548.1	9813.1	11563.7	15243.1	19422.7	21599.4	22816.0	22671.8	24532.7	24645.1	18897.1
65°	8147.2	8170.5	9783.4	13570.9	18736.0	22720.5	24471.3	23867.2	25469.5	25545.8	18827.2
67.5°	6080.7	6305.4	7526.2	10667.2	15826.0	21762.5	25007.5	23899.0	24878.2	24666.2	17333.0
70°	3916.7	4088.4	5101.6	7396.9	11411.1	18161.6	23229.3	22260.7	21834.7	21364.2	14187.6
72.5°	1807.9	2028.3	3030.8	4226.2	6767.4	12937.2	18856.8	18085.3	15715.7	14554.3	9018.3
75°	788.4	843.5	1496.3	2229.7	3172.8	6841.6	12432.7	11226.7	7098.1	6483.4	3609.5
77.5°	481.2	517.2	784.2	1195.4	1246.2	2606.9	6697.5	4898.1	2193.7	1935.0	979.2
80°	326.4	366.7	570.1	625.2	426.0	726.9	2513.7	1307.7	442.9	423.9	209.8
82.5°	158.9	201.3	421.8	349.7	184.4	233.2	731.2	279.8	129.3	120.8	74.2
85°	23.3	40.2	237.4	228.9	82.7	55.1	129.3	69.9	44.5	42.4	33.9
87.5°	0.0	0.0	80.6	36.0	8.5	8.5	14.8	14.8	17.0	14.8	17.0
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°	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5	5491.5
2.5°	5533.9	5544.5	5504.3	5447.0	5385.6	5324.1	5237.2	5158.8	5112.1	5139.7	5071.9
5°	5633.5	5625.1	5519.1	5345.3	5114.2	4836.6	4561.1	4325.8	4249.5	4135.0	4122.3
7.5°	5771.3	5748.0	5523.3	5124.8	4603.5	4082.1	3573.4	3236.4	3043.5	2880.3	2884.6
10°	5964.2	5896.3	5474.6	4737.0	3878.6	3092.3	2443.7	1998.7	1805.8	1744.3	1695.6
12.5°	6163.4	6032.0	5338.9	4213.5	3020.2	2113.1	1485.7	1214.4	1095.7	1057.6	1053.4
15°	6341.4	6133.7	5101.6	3584.0	2195.8	1350.1	1013.1	924.1	909.2	911.3	909.2
17.5°	6517.3	6214.3	4773.0	2916.4	1492.1	968.6	871.1	849.9	856.3	864.7	862.6
20°	6663.6	6231.2	4353.4	2225.4	1055.5	849.9	818.1	813.9	820.2	826.6	826.6
22.5°	6822.5	6244.0	3855.3	1540.9	862.6	790.6	773.6	773.6	782.1	790.6	792.7
25°	6941.2	6174.0	3259.7	1106.4	760.9	733.4	724.8	726.9	735.5	739.7	737.6
27.5°	6960.3	5976.9	2628.1	847.8	690.9	663.4	654.9	663.4	652.8	659.1	654.9
30°	6977.2	5726.8	1988.0	714.3	627.3	585.0	572.2	559.5	551.1	540.4	538.3
32.5°	7030.2	5432.1	1451.8	642.2	568.0	521.4	491.7	455.7	428.1	419.7	417.5
35°	7053.6	5078.2	1066.1	585.0	515.1	464.2	411.2	360.3	320.0	305.2	315.8
37.5°	7142.6	4734.9	826.6	542.6	468.4	404.8	337.0	273.4	235.3	226.8	231.0
40°	7324.8	4361.9	693.0	506.5	428.1	349.7	267.1	205.6	180.2	171.7	169.5
42.5°	7617.3	3991.0	616.8	472.6	387.9	294.6	209.8	161.1	139.9	133.5	133.5
45°	7973.4	3634.8	563.8	436.6	345.5	237.4	165.3	129.3	116.6	112.4	112.4
47.5°	8441.8	3323.3	519.3	400.6	298.9	188.6	133.5	112.4	103.8	105.9	108.1
50°	8916.6	3092.3	470.5	360.3	245.9	154.7	114.5	99.6	97.5	99.6	99.6
52.5°	9274.7	2956.6	404.8	305.2	192.9	129.3	101.7	93.3	91.1	86.9	86.9
55°	9758.0	2926.9	322.1	248.0	152.6	108.1	91.1	84.8	78.5	74.2	72.0
57.5°	10379.0	2960.9	248.0	192.9	118.7	89.0	80.6	69.9	61.5	53.0	53.0
60°	10764.7	2884.6	192.9	148.4	86.9	72.0	61.5	50.9	40.2	33.9	31.8
62.5°	10641.8	2562.4	152.6	110.2	61.5	53.0	40.2	33.9	23.3	17.0	14.8
65°	10008.1	2068.6	122.9	76.3	44.5	31.8	21.2	21.2	10.6	2.1	0.0
67.5°	8759.7	1532.3	97.5	50.9	25.4	14.8	10.6	6.3	0.0	0.0	0.0
70°	7129.8	1106.4	76.3	31.8	14.8	10.6	4.2	2.1	0.0	0.0	0.0
72.5°	4527.1	633.7	59.4	19.1	10.6	4.2	0.0	0.0	0.0	0.0	0.0
75°	1750.7	248.0	40.2	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	496.0	116.6	23.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.3	50.9	12.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.5	21.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.0	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	2.1	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)