

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: P319697

Luminaire Tested: **GAN-SA3D-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23690 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

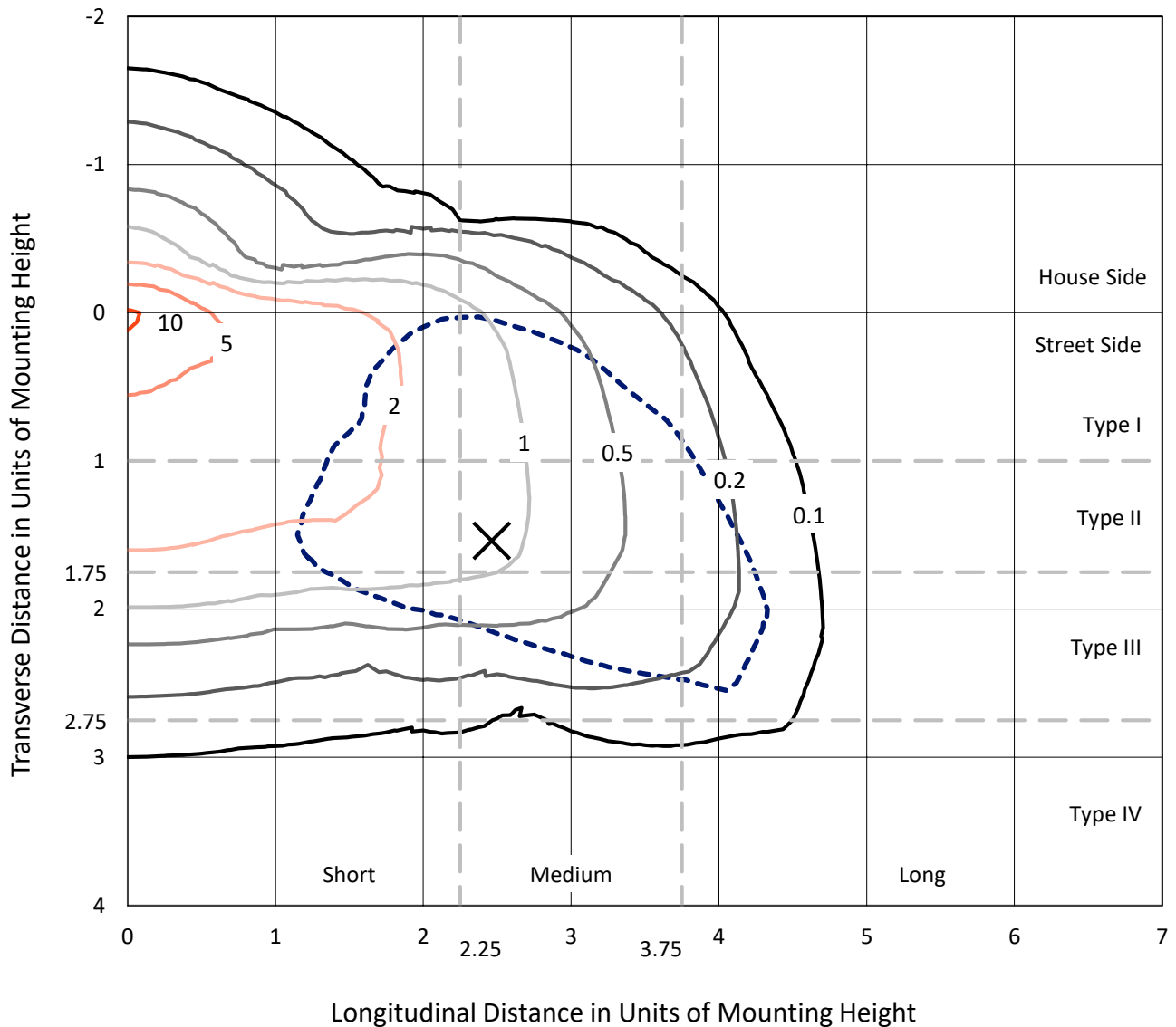
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

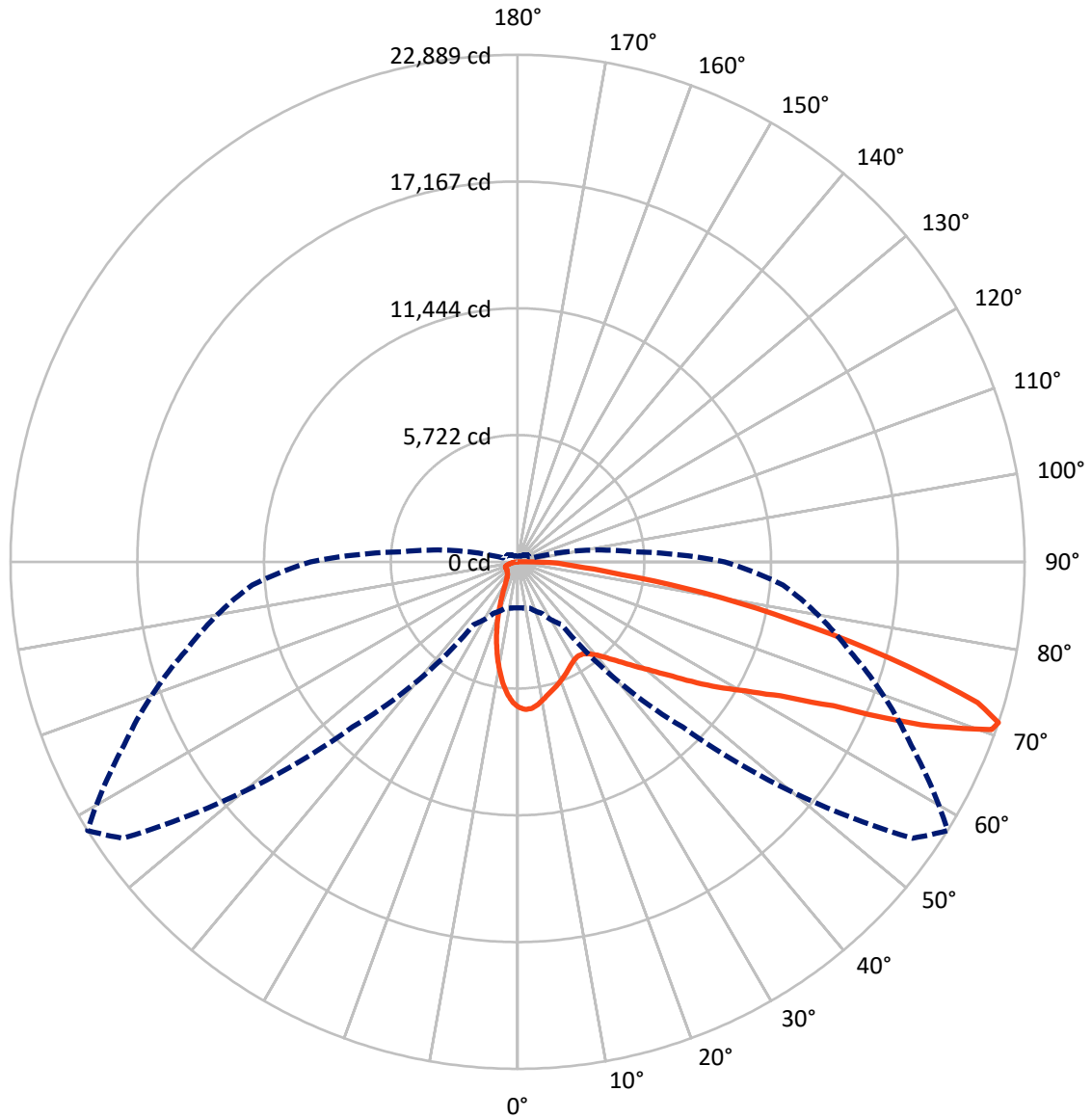
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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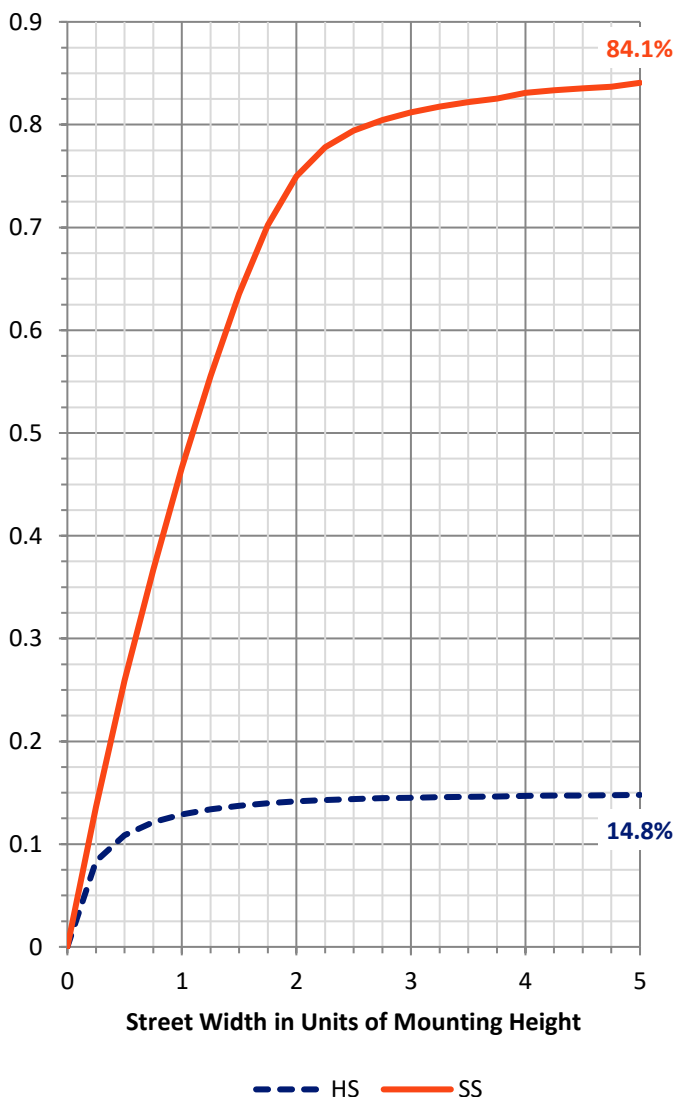
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.8	0.0	3541.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20148.2	0.0	20148.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	23690.0	0.0	23690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.3	2.4
10°-20°	1259.1	5.3
20°-30°	1600.2	6.8
30°-40°	2038.4	8.6
40°-50°	2890.5	12.2
50°-60°	4473.2	18.9
60°-70°	6089.6	25.7
70°-80°	4062.5	17.1
80°-90°	710.3	3.0
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°	23690.0	100.0
0°-180°	23690.0	100.0

Coefficient of Utilization

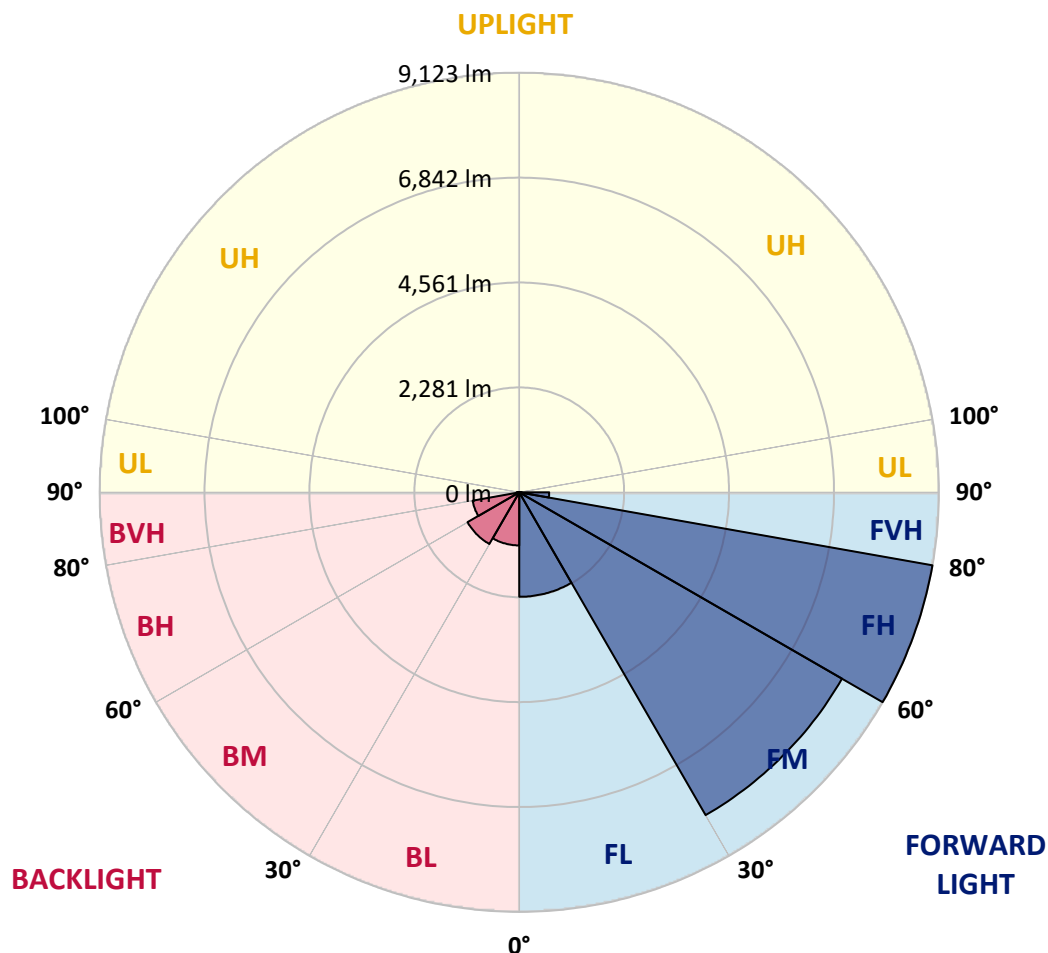


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.1	9.6			
FM (30°-60°)	8103.1	34.2			
FH (60°-80°)	9122.7	38.5			G4/12000
FVH (80°-90°)	651.3	2.7			G4/750
BL (0°-30°)	1154.5	4.9	B3/2500		
BM (30°-60°)	1298.9	5.5	B2/2500		
BH (60°-80°)	1029.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	59.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7
2.5°	6737.8	6728.8	6732.1	6725.5	6709.8	6694.1	6671.0	6675.1	6642.9	6595.1	6535.7
5°	6610.8	6607.4	6632.2	6646.2	6657.8	6648.7	6642.1	6650.4	6603.3	6537.3	6434.2
7.5°	6344.2	6307.9	6339.3	6386.3	6430.9	6464.7	6509.2	6515.0	6485.3	6416.0	6280.7
10°	5965.4	5930.8	5977.0	6050.4	6139.6	6220.4	6310.4	6326.9	6332.7	6269.9	6105.7
12.5°	5572.6	5546.2	5592.4	5695.6	5843.3	5967.9	6111.5	6136.3	6187.4	6145.3	5944.0
15°	5221.1	5211.2	5267.3	5368.8	5538.8	5729.4	5936.6	5981.9	6068.6	6054.6	5817.7
17.5°	4917.4	4914.9	4957.9	5064.3	5252.5	5493.4	5762.4	5839.2	5967.9	5984.4	5713.7
20°	4691.3	4686.4	4716.1	4794.5	4988.4	5261.5	5574.3	5679.9	5865.6	5923.4	5606.5
22.5°	4570.0	4569.2	4570.0	4607.1	4765.6	5019.7	5391.1	5519.8	5765.7	5874.7	5487.6
25°	4549.4	4546.9	4528.7	4524.6	4614.6	4817.6	5209.5	5351.5	5670.8	5840.8	5374.6
27.5°	4603.0	4606.3	4582.4	4543.6	4561.8	4684.7	5051.9	5203.8	5594.9	5834.2	5296.2
30°	4714.4	4712.8	4692.1	4651.7	4616.2	4635.2	4939.7	5091.5	5543.8	5863.1	5242.6
32.5°	4837.4	4846.5	4842.3	4820.0	4767.2	4691.3	4905.9	5054.4	5528.9	5932.4	5219.4
35°	4985.1	4995.0	5024.7	5042.0	4980.1	4858.0	4978.5	5107.2	5571.8	6062.8	5256.6
37.5°	5125.4	5151.0	5234.3	5307.7	5254.9	5118.8	5171.6	5263.2	5704.7	6268.3	5356.4
40°	5287.1	5309.4	5445.6	5601.5	5593.3	5452.2	5482.7	5543.8	5939.0	6562.9	5537.2
42.5°	5446.4	5490.9	5688.2	5909.3	5972.9	5848.3	5896.9	5929.1	6269.1	6953.2	5852.4
45°	5658.5	5706.3	5980.3	6246.8	6395.4	6325.2	6402.8	6415.2	6684.2	7484.6	6310.4
47.5°	5979.5	6033.9	6353.3	6633.0	6860.0	6867.4	6995.3	6990.3	7202.4	8092.8	6887.2
50°	6479.5	6557.9	6819.5	7081.1	7356.7	7510.2	7681.0	7657.1	7823.8	8740.6	7551.5
52.5°	7134.8	7171.1	7365.0	7558.1	7900.6	8244.7	8489.8	8468.3	8528.5	9406.6	8305.7
55°	7813.9	7841.1	7921.2	8026.8	8487.3	9048.4	9566.6	9532.8	9380.2	10098.1	9050.9
57.5°	8424.6	8479.8	8535.1	8578.9	9078.1	9888.5	10668.3	10670.8	10304.4	10844.1	9820.8
60°	8519.5	8568.1	8933.7	9278.7	10089.0	11009.1	11847.5	11822.8	11260.8	11653.6	10679.0
62.5°	7530.9	7640.6	8251.3	9168.9	11062.8	13058.9	13351.9	13321.4	12404.5	12651.3	11678.4
65°	5396.9	5521.5	6258.4	7637.3	10590.7	15317.5	16066.8	15655.9	13964.2	13878.4	12848.5
67.5°	3113.5	3143.2	3462.6	4570.0	8063.9	15435.5	20208.5	19633.4	16386.2	15270.5	13421.2
70°	2302.3	2301.5	2377.4	2812.3	4363.7	12597.6	22178.3	22694.1	18936.1	15728.5	12611.7
71°	2082.0	2084.5	2169.5	2559.8	3456.0	10544.5	21759.9	22888.8	19607.8	15502.4	12025.8
72.5°	1780.8	1789.1	1907.1	2295.7	2907.2	7271.7	19957.7	21720.3	19926.3	14944.5	11109.0
75°	1350.9	1369.8	1533.2	1935.1	2657.2	3687.9	14647.5	17344.2	17701.6	13186.8	8254.6
77.5°	963.8	985.3	1170.1	1627.3	2526.0	2779.3	9809.3	12651.3	13026.8	8451.0	3723.3
80°	609.0	634.6	774.0	1294.8	2373.3	2639.0	6164.3	8503.8	7103.4	2704.2	947.3
82.5°	357.3	377.1	480.3	845.8	1938.4	2541.6	3626.8	4713.6	2764.5	817.0	430.8
85°	207.1	216.2	299.6	538.9	1407.8	2398.9	2664.6	2634.9	1199.9	399.4	203.8
87.5°	96.5	107.3	177.4	281.4	781.5	1738.7	2105.9	1819.6	746.0	187.3	95.7
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°	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7	6563.7
2.5°	6506.8	6492.7	6434.2	6382.2	6327.7	6256.7	6178.3	6168.4	6120.6	6129.7	6113.1
5°	6378.0	6342.6	6201.4	6073.5	5922.5	5787.2	5640.3	5572.6	5475.3	5468.7	5443.9
7.5°	6194.0	6128.0	5909.3	5666.7	5424.1	5193.0	4964.5	4814.3	4660.8	4595.6	4589.8
10°	5986.9	5874.7	5552.8	5193.9	4844.0	4506.5	4179.7	3937.9	3720.0	3616.9	3612.8
12.5°	5790.5	5624.6	5183.1	4694.6	4216.0	3778.6	3330.5	3012.8	2739.7	2648.1	2609.3
15°	5623.8	5390.3	4823.3	4198.7	3617.7	3010.4	2500.4	2166.2	1913.7	1826.2	1809.7
17.5°	5462.1	5161.7	4454.5	3697.8	2995.5	2327.9	1817.1	1568.7	1434.2	1398.7	1397.9
20°	5301.1	4926.5	4069.1	3185.3	2393.9	1741.2	1397.1	1285.7	1240.3	1236.2	1229.6
22.5°	5118.8	4677.3	3663.9	2671.2	1868.3	1369.0	1187.5	1142.9	1137.1	1152.0	1152.0
25°	4948.0	4429.7	3253.0	2167.8	1453.2	1142.1	1060.4	1051.3	1067.0	1093.4	1095.9
27.5°	4788.7	4191.2	2851.9	1720.6	1164.4	1005.9	972.1	982.8	1010.9	1041.4	1042.2
30°	4657.5	3966.0	2462.4	1355.8	983.6	904.4	898.7	920.1	950.6	974.6	980.3
32.5°	4556.0	3773.7	2086.1	1090.1	865.6	828.5	833.5	851.6	870.6	883.8	892.9
35°	4508.9	3608.6	1738.7	919.3	790.6	769.9	776.5	786.4	794.7	804.6	812.0
37.5°	4517.2	3480.7	1428.4	812.8	740.2	729.5	729.5	729.5	729.5	734.4	735.3
40°	4593.9	3407.3	1175.9	745.2	706.4	694.8	685.7	677.5	670.9	674.2	672.5
42.5°	4790.3	3400.7	991.1	702.3	679.1	660.2	642.0	630.5	622.2	625.5	627.2
45°	5123.7	3483.2	866.5	671.7	653.6	624.7	601.6	589.2	583.4	594.2	595.8
47.5°	5555.3	3663.1	790.6	649.4	629.6	591.7	566.9	555.4	557.0	572.7	576.8
50°	6111.5	3955.2	754.2	635.4	613.1	563.6	538.0	528.1	533.1	555.4	560.3
52.5°	6722.2	4376.1	758.4	631.3	602.4	543.0	515.8	504.2	512.5	533.1	537.2
55°	7426.9	4881.9	826.9	637.1	586.7	529.8	497.6	477.8	484.4	503.4	506.7
57.5°	8210.0	5461.2	964.7	635.4	566.9	517.4	478.6	448.9	453.9	465.4	468.7
60°	9025.3	6161.0	1178.4	640.4	557.8	502.6	453.0	415.9	414.3	424.2	425.8
62.5°	10004.0	6970.5	1422.7	643.7	563.6	483.6	419.2	382.9	377.9	380.4	382.1
65°	11012.4	7556.4	1331.1	630.5	581.8	467.9	389.5	350.7	341.6	340.0	340.8
67.5°	11043.8	6928.5	933.3	604.1	589.2	459.6	367.2	323.5	308.6	302.9	302.0
70°	9904.2	5628.8	727.0	576.0	559.5	446.4	346.6	301.2	278.9	269.8	269.0
71°	9348.0	5181.5	689.0	562.0	537.2	433.2	337.5	291.3	268.2	258.3	256.6
72.5°	8475.7	4645.1	642.8	539.7	494.3	399.4	320.2	277.3	253.3	241.8	239.3
75°	6082.6	3037.6	552.1	481.1	409.3	318.5	280.6	249.2	228.6	214.6	212.9
77.5°	2343.6	1208.9	417.6	400.2	313.6	249.2	231.1	215.4	200.5	186.5	185.7
80°	724.5	540.5	304.5	301.2	226.9	185.7	179.9	175.8	170.0	155.1	151.8
82.5°	387.0	310.3	209.6	194.7	148.5	123.8	130.4	132.0	132.9	117.2	115.5
85°	184.8	164.2	118.0	110.6	86.6	69.3	80.0	86.6	87.5	71.8	66.8
87.5°	88.3	85.8	55.3	42.1	32.2	23.1	28.1	34.7	38.0	27.2	23.9
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)