

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: P319688

Luminaire Tested: **GAN-SA4C-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319688
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-SA4C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 28534 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 225
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

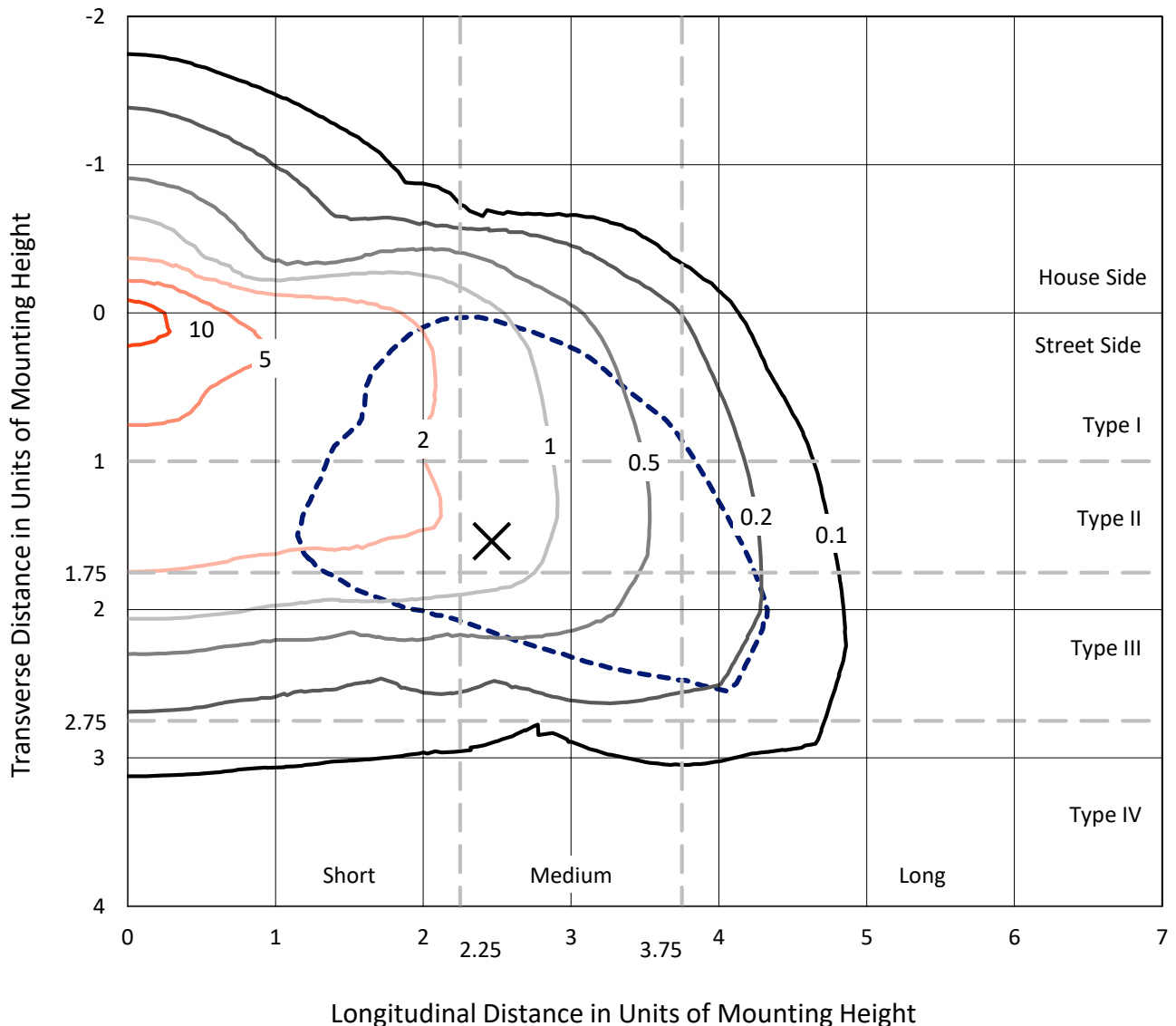




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Iso-Footcandle Lines of Horizontal Illumination

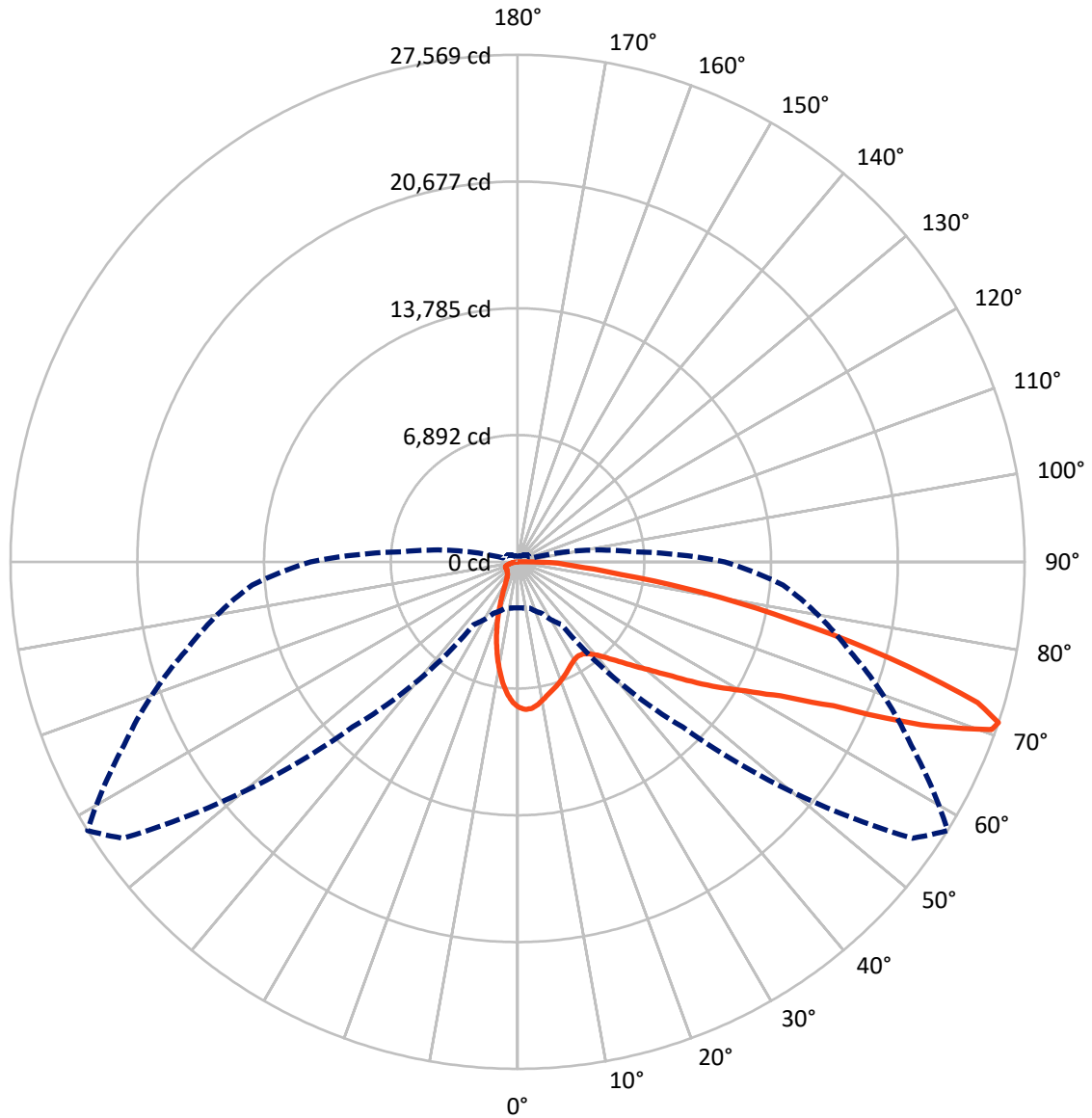
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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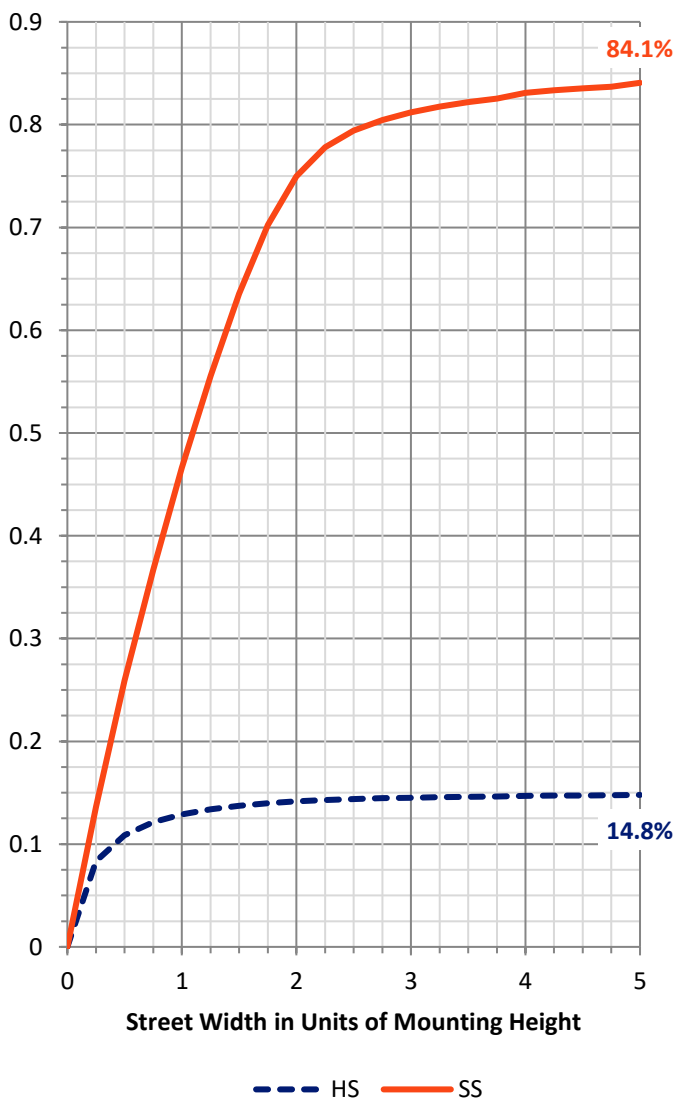
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4266.0	0.0	4266.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24268.0	0.0	24268.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	28534.0	0.0	28534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.0	2.4
10°-20°	1516.6	5.3
20°-30°	1927.4	6.8
30°-40°	2455.1	8.6
40°-50°	3481.5	12.2
50°-60°	5387.8	18.9
60°-70°	7334.8	25.7
70°-80°	4893.2	17.1
80°-90°	855.5	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°	28534.0	100.0
0°-180°	28534.0	100.0

Coefficient of Utilization



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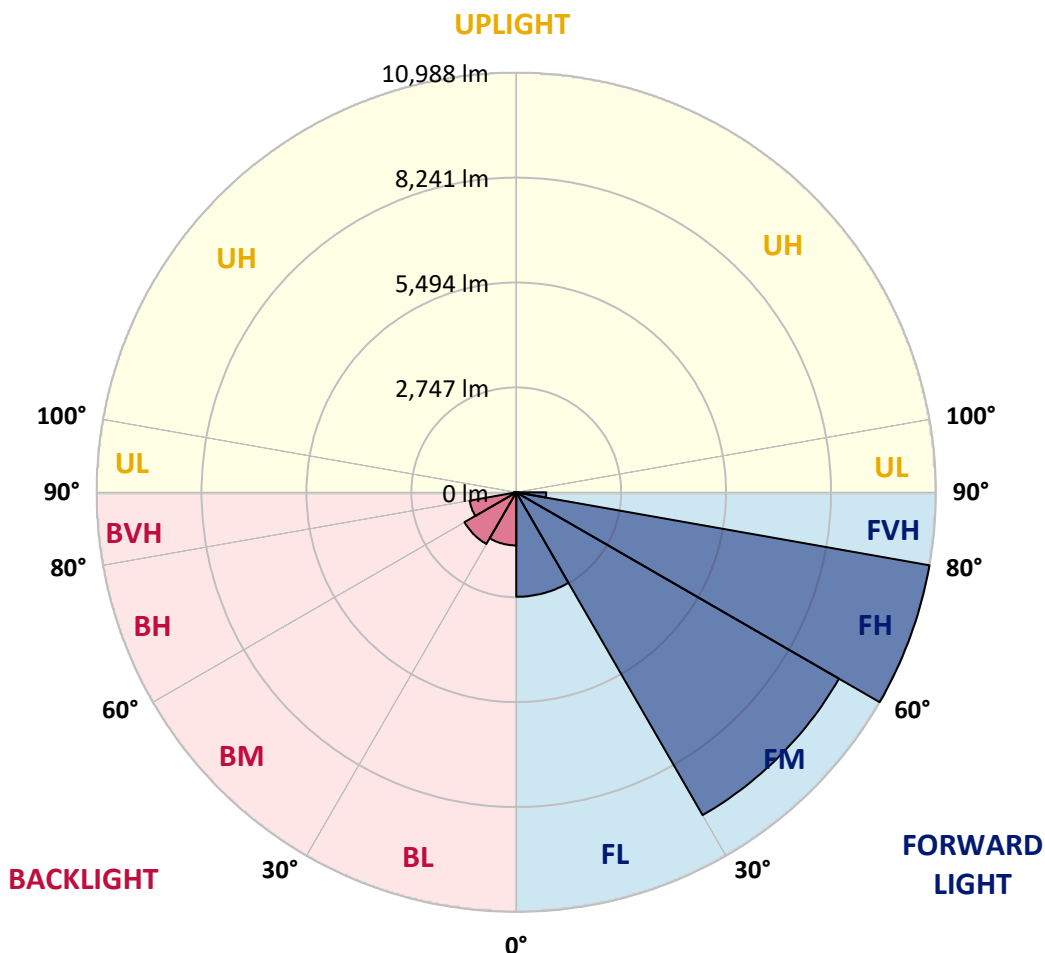
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.5	9.6			
FM (30°-60°)	9760.0	34.2			
FH (60°-80°)	10988.1	38.5			G4/12000
FVH (80°-90°)	784.4	2.7			G5
BL (0°-30°)	1390.6	4.9	B3/2500		
BM (30°-60°)	1564.5	5.5	B2/2500		
BH (60°-80°)	1239.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.1	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8
2.5°	8115.5	8104.6	8108.6	8100.6	8081.8	8062.9	8035.0	8040.0	8001.2	7943.6	7872.0
5°	7962.5	7958.5	7988.3	8005.2	8019.1	8008.2	8000.3	8010.2	7953.5	7874.0	7749.8
7.5°	7641.4	7597.7	7635.5	7692.1	7745.8	7786.6	7840.2	7847.2	7811.4	7727.9	7564.9
10°	7185.2	7143.5	7199.1	7287.6	7394.9	7492.3	7600.7	7620.6	7627.5	7552.0	7354.2
12.5°	6712.1	6680.3	6736.0	6860.2	7038.1	7188.2	7361.1	7391.0	7452.6	7401.9	7159.4
15°	6288.7	6276.8	6344.3	6466.6	6671.3	6900.9	7150.4	7205.1	7309.5	7292.6	7007.3
17.5°	5922.9	5919.9	5971.6	6099.8	6326.4	6616.7	6940.7	7033.1	7188.2	7208.1	6882.1
20°	5650.6	5644.6	5680.4	5774.8	6008.4	6337.4	6714.1	6841.3	7064.9	7134.5	6752.9
22.5°	5504.5	5503.5	5504.5	5549.2	5740.0	6046.2	6493.4	6648.5	6944.7	7075.9	6609.7
25°	5479.6	5476.6	5454.8	5449.8	5558.1	5802.6	6274.8	6445.7	6830.4	7035.1	6473.6
27.5°	5544.2	5548.2	5519.4	5472.7	5494.5	5642.6	6084.9	6267.8	6738.9	7027.2	6379.1
30°	5678.4	5676.4	5651.6	5602.9	5560.1	5583.0	5949.7	6132.6	6677.3	7062.0	6314.5
32.5°	5826.5	5837.4	5832.5	5805.6	5742.0	5650.6	5909.0	6087.9	6659.4	7145.5	6286.7
35°	6004.4	6016.3	6052.1	6073.0	5998.4	5851.3	5996.5	6151.5	6711.1	7302.5	6331.4
37.5°	6173.4	6204.2	6304.6	6393.0	6329.4	6165.4	6229.0	6339.4	6871.1	7550.0	6451.7
40°	6368.2	6395.0	6559.0	6746.9	6736.9	6567.0	6603.8	6677.3	7153.4	7904.8	6669.4
42.5°	6560.0	6613.7	6851.3	7117.6	7194.2	7044.1	7102.7	7141.5	7551.0	8375.0	7049.0
45°	6815.5	6873.1	7203.1	7524.2	7703.1	7618.6	7712.0	7726.9	8050.9	9015.1	7600.7
47.5°	7202.1	7267.7	7652.4	7989.3	8262.7	8271.6	8425.7	8419.7	8675.1	9747.6	8295.5
50°	7804.4	7898.9	8213.9	8529.0	8861.0	9045.9	9251.6	9222.8	9423.6	10527.8	9095.6
52.5°	8593.6	8637.4	8870.9	9103.5	9516.0	9930.5	10225.7	10199.8	10272.4	11330.0	10004.0
55°	9411.6	9444.4	9540.9	9668.1	10222.7	10898.6	11522.8	11482.0	11298.2	12162.9	10901.6
57.5°	10147.2	10213.8	10280.4	10333.0	10934.4	11910.4	12849.7	12852.7	12411.4	13061.4	11828.9
60°	10261.5	10320.1	10760.4	11175.9	12152.0	13260.2	14270.0	14240.2	13563.4	14036.5	12862.6
62.5°	9070.7	9202.9	9938.4	11043.7	13324.8	15729.2	16082.0	16045.2	14941.0	15238.1	14066.3
65°	6500.4	6650.5	7538.1	9198.9	12756.3	18449.6	19352.1	18857.1	16819.5	16716.1	15475.7
67.5°	3750.1	3785.9	4170.6	5504.5	9712.8	18591.7	24340.7	23647.9	19736.7	18392.9	16165.5
70°	2773.1	2772.1	2863.6	3387.4	5256.0	15173.5	26713.2	27334.4	22808.0	18944.6	15190.4
71°	2507.7	2510.7	2613.1	3083.2	4162.6	12700.6	26209.3	27569.0	23617.1	18672.2	14484.7
72.5°	2144.9	2154.9	2297.0	2765.2	3501.7	8758.6	24038.5	26161.6	24000.8	18000.3	13380.5
75°	1627.1	1649.9	1846.7	2330.8	3200.5	4441.9	17642.5	20890.7	21321.1	15883.2	9942.4
77.5°	1160.9	1186.8	1409.4	1960.1	3042.5	3347.6	11815.0	15238.1	15690.4	10179.0	4484.7
80°	733.5	764.3	932.3	1559.5	2858.6	3178.6	7424.8	10242.6	8555.9	3257.2	1141.0
82.5°	430.4	454.2	578.5	1018.8	2334.8	3061.3	4368.4	5677.4	3329.7	984.0	518.8
85°	249.5	260.4	360.8	649.0	1695.7	2889.4	3209.4	3173.7	1445.2	481.1	245.5
87.5°	116.3	129.2	213.7	338.9	941.3	2094.2	2536.5	2191.6	898.5	225.6	115.3
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°	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8	7905.8
2.5°	7837.2	7820.3	7749.8	7687.2	7621.6	7536.1	7441.7	7429.7	7372.1	7383.0	7363.1
5°	7682.2	7639.4	7469.5	7315.4	7133.5	6970.5	6793.6	6712.1	6594.8	6586.9	6557.0
7.5°	7460.5	7381.0	7117.6	6825.4	6533.2	6254.9	5979.6	5798.7	5613.8	5535.3	5528.3
10°	7211.1	7075.9	6688.2	6255.9	5834.4	5427.9	5034.3	4743.1	4480.7	4356.5	4351.5
12.5°	6974.5	6774.7	6243.0	5654.5	5078.1	4551.3	4011.6	3628.9	3299.9	3189.6	3142.8
15°	6773.7	6492.4	5809.6	5057.2	4357.4	3625.9	3011.6	2609.1	2305.0	2199.6	2179.7
17.5°	6578.9	6217.1	5365.3	4453.9	3608.0	2803.9	2188.7	1889.5	1727.5	1684.7	1683.7
20°	6385.1	5933.8	4901.1	3836.6	2883.4	2097.2	1682.7	1548.6	1493.9	1488.9	1481.0
22.5°	6165.4	5633.7	4413.1	3217.4	2250.3	1649.0	1430.3	1376.6	1369.7	1387.5	1387.5
25°	5959.7	5335.5	3918.1	2611.1	1750.3	1375.6	1277.2	1266.3	1285.2	1317.0	1320.0
27.5°	5767.9	5048.2	3435.1	2072.4	1402.5	1211.6	1170.9	1183.8	1217.6	1254.4	1255.4
30°	5609.8	4776.9	2965.9	1633.0	1184.8	1089.4	1082.4	1108.2	1145.0	1173.8	1180.8
32.5°	5487.6	4545.3	2512.7	1313.0	1042.6	997.9	1003.9	1025.7	1048.6	1064.5	1075.4
35°	5430.9	4346.5	2094.2	1107.3	952.2	927.3	935.3	947.2	957.2	969.1	978.0
37.5°	5440.8	4192.5	1720.5	979.0	891.6	878.6	878.6	878.6	878.6	884.6	885.6
40°	5533.3	4104.0	1416.4	897.5	850.8	836.9	826.0	816.0	808.1	812.1	810.1
42.5°	5769.8	4096.0	1193.7	845.8	818.0	795.2	773.3	759.4	749.4	753.4	755.4
45°	6171.4	4195.4	1043.6	809.1	787.2	752.4	724.6	709.7	702.7	715.6	717.6
47.5°	6691.2	4412.1	952.2	782.2	758.4	712.7	682.8	668.9	670.9	689.8	694.8
50°	7361.1	4764.0	908.5	765.3	738.5	678.9	648.1	636.1	642.1	668.9	674.9
52.5°	8096.7	5270.9	913.4	760.4	725.6	654.0	621.2	607.3	617.2	642.1	647.1
55°	8945.5	5880.2	995.9	767.3	706.7	638.1	599.3	575.5	583.4	606.3	610.3
57.5°	9888.7	6577.9	1161.9	765.3	682.8	623.2	576.5	540.7	546.7	560.6	564.6
60°	10870.8	7420.8	1419.4	771.3	671.9	605.3	545.7	500.9	499.0	510.9	512.9
62.5°	12049.6	8395.8	1713.6	775.3	678.9	582.5	504.9	461.2	455.2	458.2	460.2
65°	13264.2	9101.5	1603.2	759.4	700.7	563.6	469.1	422.4	411.5	409.5	410.5
67.5°	13301.9	8345.1	1124.1	727.6	709.7	553.6	442.3	389.6	371.7	364.8	363.8
70°	11929.3	6779.7	875.7	693.8	673.9	537.7	417.5	362.8	336.0	325.0	324.0
71°	11259.4	6241.0	829.9	676.9	647.1	521.8	406.5	350.9	323.0	311.1	309.1
72.5°	10208.8	5594.9	774.3	650.0	595.4	481.1	385.7	334.0	305.1	291.2	288.2
75°	7326.4	3658.7	664.9	579.5	493.0	383.7	337.9	300.2	275.3	258.4	256.4
77.5°	2822.8	1456.1	502.9	482.1	377.7	300.2	278.3	259.4	241.5	224.6	223.6
80°	872.7	651.0	366.8	362.8	273.3	223.6	216.7	211.7	204.8	186.9	182.9
82.5°	466.2	373.7	252.5	234.6	178.9	149.1	157.0	159.0	160.0	141.1	139.2
85°	222.6	197.8	142.1	133.2	104.4	83.5	96.4	104.4	105.4	86.5	80.5
87.5°	106.4	103.4	66.6	50.7	38.8	27.8	33.8	41.7	45.7	32.8	28.8
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)