

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: P649527

Luminaire Tested: **GLAN-SA7D-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42112.9 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

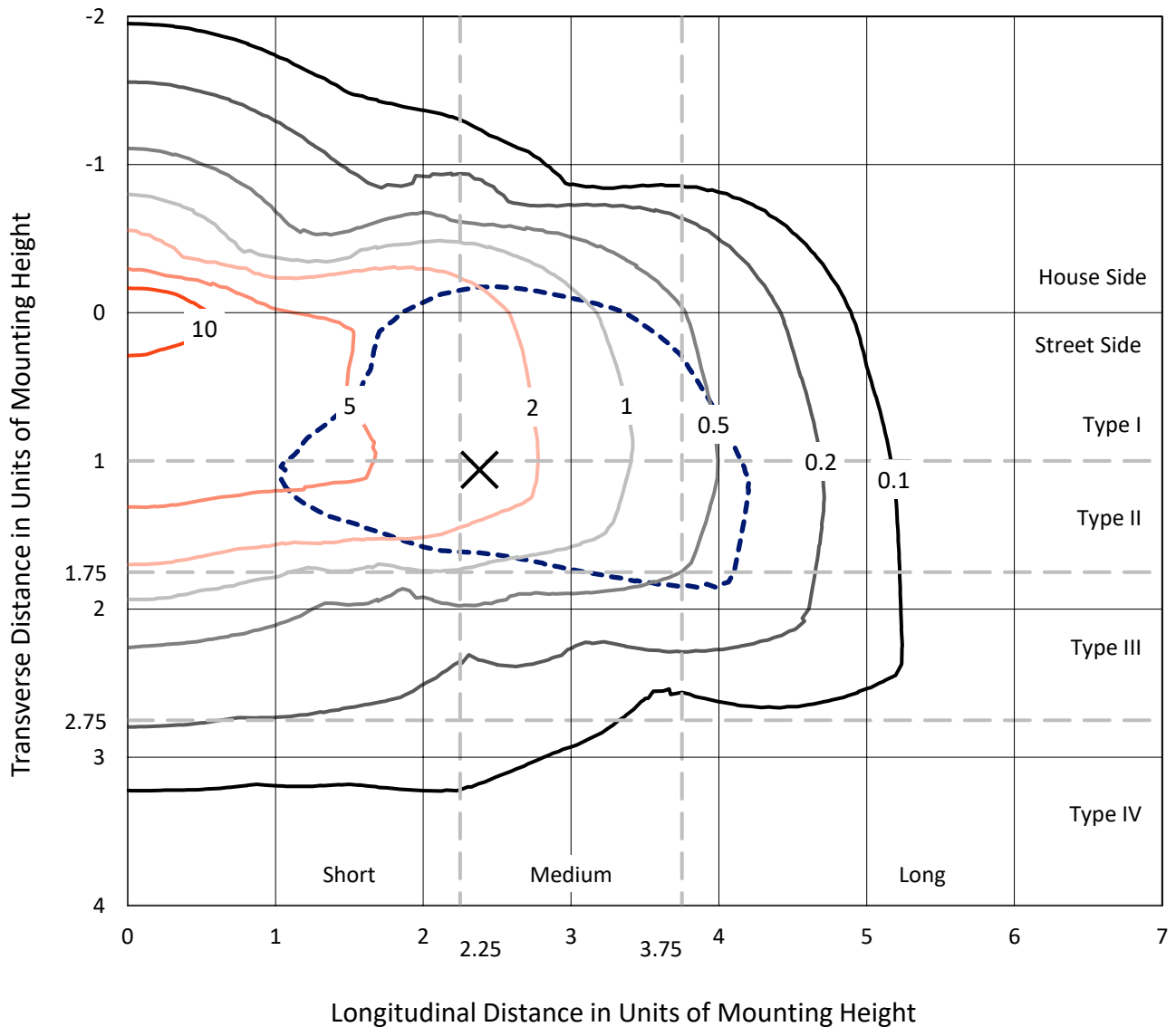
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

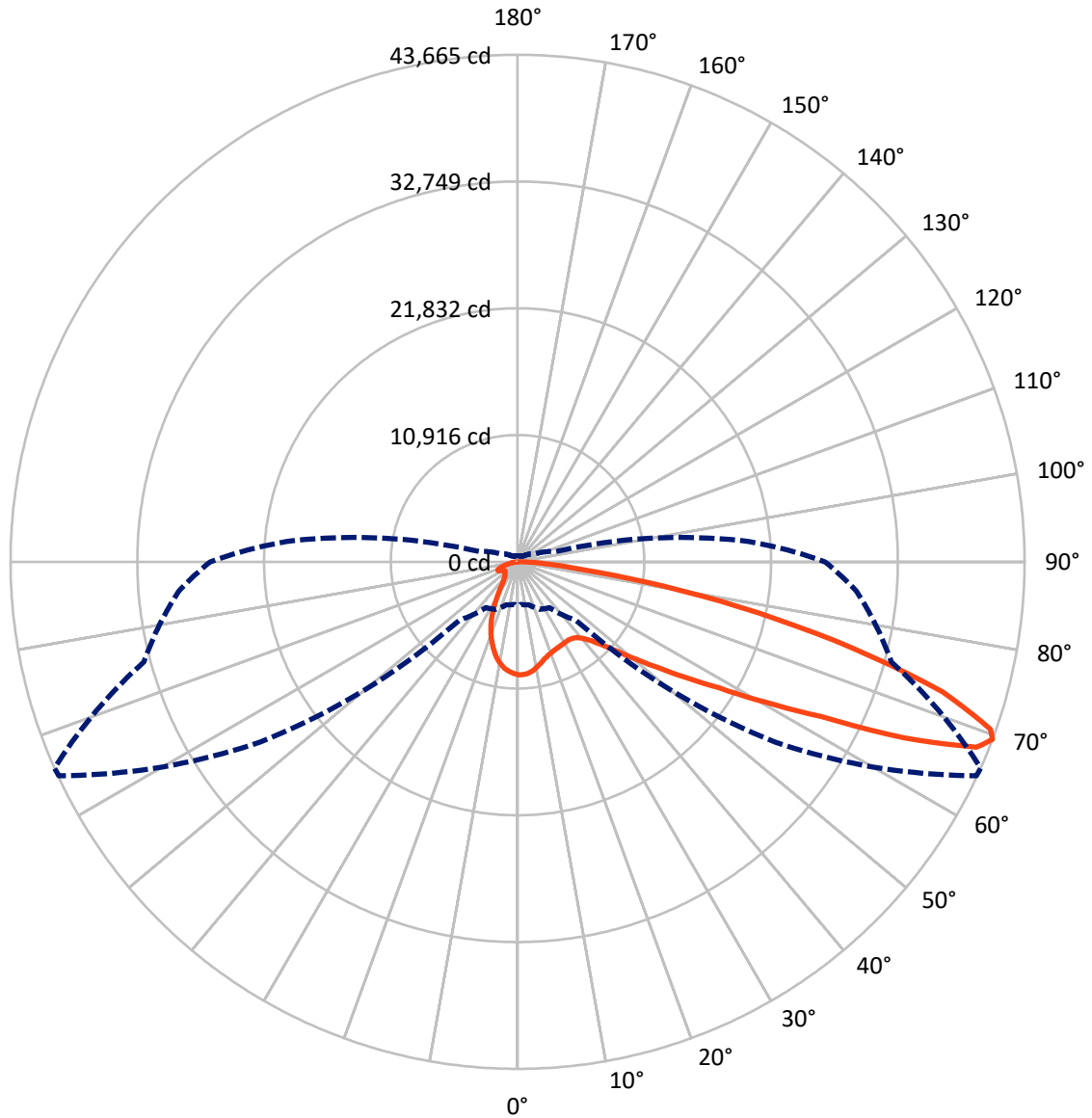
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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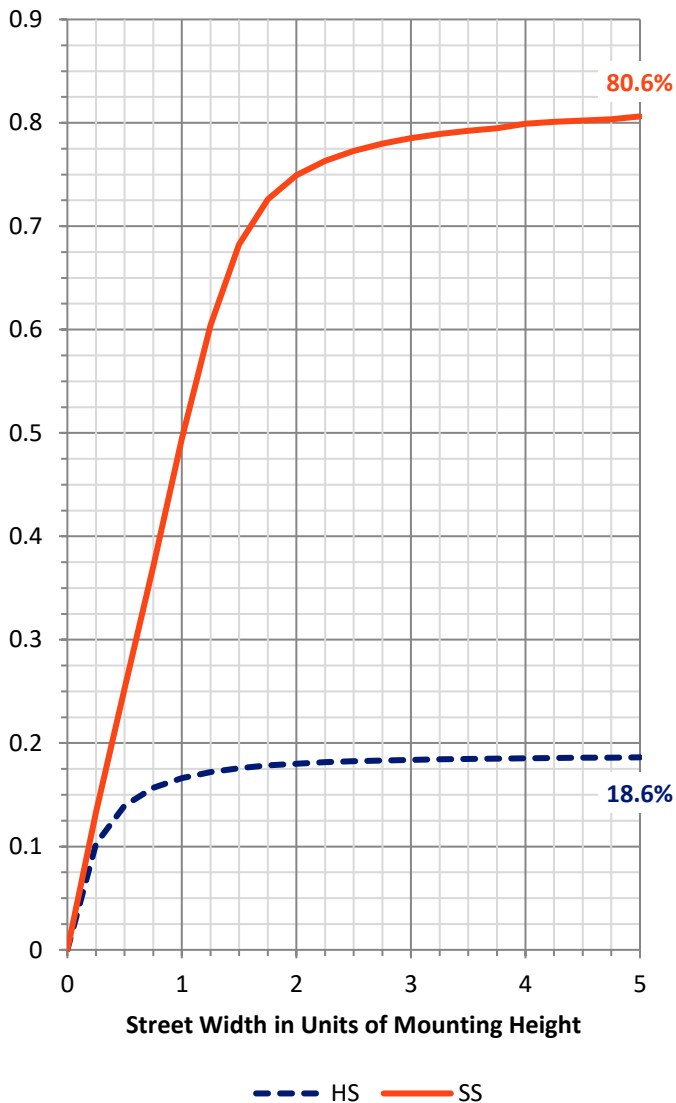
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7919.8	0.0	7919.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34193.0	0.0	34193.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	42112.9	0.0	42112.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.5	2.0
10°-20°	2003.1	4.8
20°-30°	2727.0	6.5
30°-40°	3664.5	8.7
40°-50°	5471.7	13.0
50°-60°	8703.6	20.7
60°-70°	10704.9	25.4
70°-80°	6965.1	16.5
80°-90°	1028.5	2.4
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°	42112.9	100.0
0°-180°	42112.9	100.0

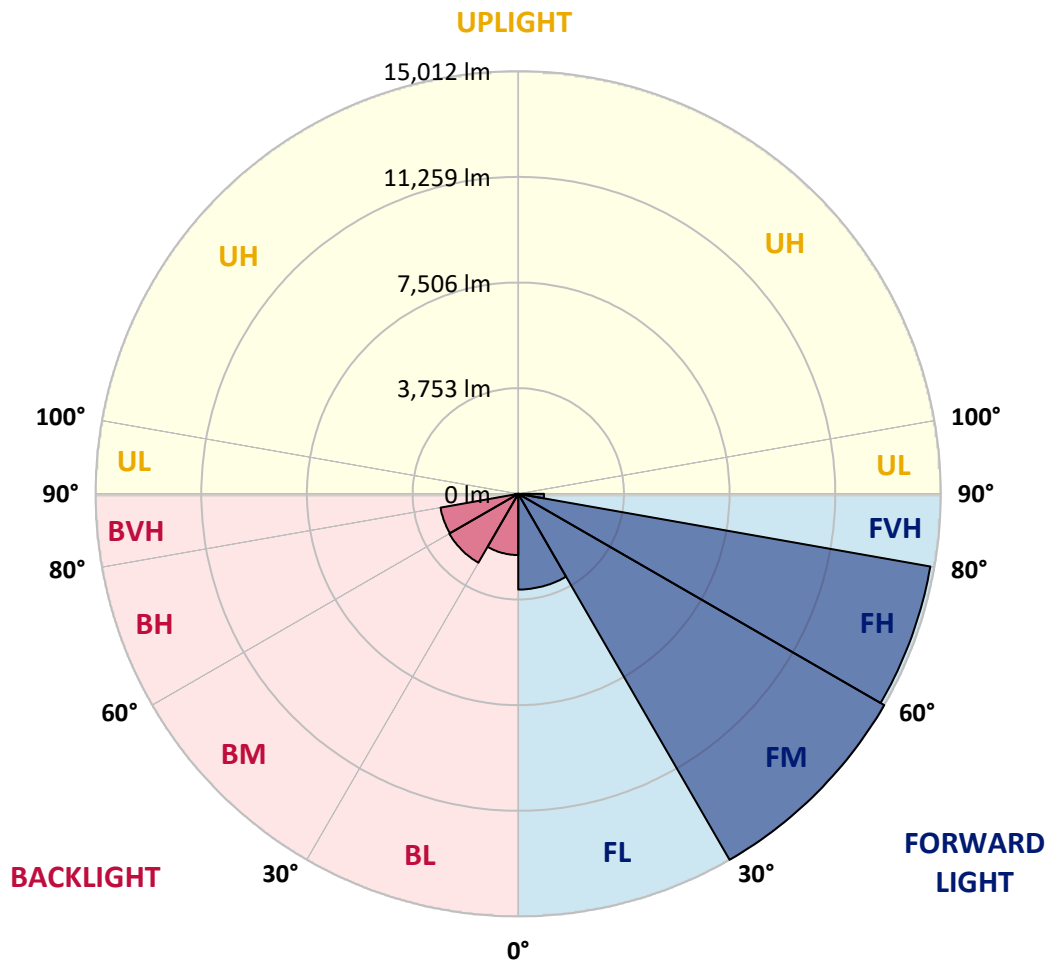


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3400.6	8.1			
FM (30°-60°)	15012.0	35.6			
FH (60°-80°)	14866.1	35.3			G5
FVH (80°-90°)	914.4	2.2			G5
BL (0°-30°)	2174.0	5.2	B3/2500		
BM (30°-60°)	2827.7	6.7	B3/5000		
BH (60°-80°)	2804.0	6.7	B4/5000		G4/5000
BVH (80°-90°)	114.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0
2.5°	9384.6	9421.8	9463.8	9510.5	9599.1	9648.0	9683.0	9722.7	9727.4	9748.4	9732.1
5°	8691.9	8736.2	8799.2	8887.8	9020.7	9228.3	9442.8	9617.7	9638.7	9736.7	9764.7
7.5°	8113.5	8139.2	8190.5	8332.8	8521.6	8752.5	9065.0	9419.5	9470.9	9704.0	9785.7
10°	7642.4	7668.1	7728.7	7875.6	8062.2	8351.4	8694.2	9160.6	9202.6	9603.7	9790.3
12.5°	7290.3	7313.6	7378.9	7523.5	7738.1	8008.6	8386.4	8880.8	8941.5	9470.9	9746.0
15°	7022.1	7066.4	7120.1	7239.0	7465.2	7726.4	8092.5	8624.3	8673.2	9330.9	9715.7
17.5°	6907.8	6928.8	6966.1	7075.7	7241.3	7497.9	7866.3	8423.7	8482.0	9233.0	9708.7
20°	6912.5	6933.5	6940.4	7001.1	7120.1	7341.6	7705.4	8265.1	8335.1	9146.7	9720.4
22.5°	7071.0	7073.4	7047.7	7026.7	7073.4	7257.6	7591.1	8146.2	8227.8	9109.3	9729.7
25°	7316.0	7357.9	7320.6	7222.6	7136.3	7225.0	7546.8	8080.9	8157.8	9055.7	9718.0
27.5°	7712.4	7719.4	7689.1	7556.1	7332.2	7266.9	7528.2	8031.9	8097.2	9016.1	9659.7
30°	8244.1	8223.1	8195.1	8048.2	7696.1	7427.9	7567.8	7987.6	8055.2	8957.8	9589.8
32.5°	8782.8	8848.1	8822.5	8649.9	8192.8	7740.3	7696.1	7982.9	8038.9	8913.4	9512.8
35°	9354.2	9384.6	9505.8	9417.2	8948.4	8246.5	7936.3	8055.2	8099.5	8915.8	9459.2
37.5°	9802.0	9883.7	10168.1	10245.1	9804.3	8915.8	8325.7	8260.4	8279.1	9030.0	9480.2
40°	10343.0	10483.0	10849.1	11163.9	10874.8	9785.7	8988.1	8640.6	8663.9	9305.3	9617.7
42.5°	11028.7	11126.7	11618.7	12045.5	11998.8	10935.4	9790.3	9263.3	9274.9	9853.3	10002.6
45°	11831.0	11970.9	12523.6	13165.0	13274.6	12236.7	10949.4	10205.5	10198.4	10704.5	10720.8
47.5°	12857.1	12943.4	13491.4	14191.1	14634.2	13871.5	12355.7	11558.1	11483.5	11945.2	11812.3
50°	13801.6	13936.9	14352.0	15116.9	16220.1	15786.3	14205.1	13311.9	13136.9	13568.4	13344.5
52.5°	14198.1	14340.3	14690.2	15639.3	17579.7	18263.0	16553.6	15403.8	15112.3	15443.4	15361.8
55°	13510.1	13694.4	14020.9	15175.2	18176.7	21119.9	19720.6	17822.3	17610.0	17467.7	17491.0
57.5°	11660.7	11835.6	12276.4	13549.7	17463.1	23193.2	24242.6	20931.0	20476.2	19820.9	19932.8
60°	8876.2	8985.7	9214.3	10625.2	15347.8	23731.9	29378.0	24860.6	24571.5	22164.7	22243.9
62.5°	6303.8	6427.4	6586.0	7290.3	11236.3	22213.6	33398.6	30348.1	29315.1	24592.5	24515.5
65°	5119.0	5035.1	5226.4	5555.2	6592.9	17215.9	34303.5	37964.9	36542.3	27789.8	26721.7
67.5°	4209.5	4120.9	4309.8	4895.2	5014.1	9993.2	31043.1	42909.1	42624.6	31267.0	28962.9
69°	3726.8	3680.1	3845.7	4512.7	4813.6	7096.7	27043.5	43597.0	43664.7	33317.0	29308.0
70°	3358.3	3376.9	3537.8	4319.1	4722.6	5851.4	23113.8	42647.9	43221.6	34340.8	28934.9
72.5°	2472.1	2511.7	2735.6	3577.5	4636.3	4965.2	13755.0	37251.3	38265.8	34401.4	26469.8
75°	1728.1	1709.4	1907.7	2693.6	4379.8	4920.8	8078.5	28808.9	29958.7	29734.8	22241.7
77.5°	1131.1	1161.4	1320.0	1903.0	3684.8	4883.5	5266.0	20438.9	21185.2	19886.2	13155.6
80°	797.6	795.3	883.9	1299.0	2733.3	4692.3	4312.1	12882.8	12693.8	7815.0	3901.7
82.5°	457.1	489.8	592.3	914.2	1828.4	4130.2	3967.0	6161.5	5625.2	2227.2	1317.6
85°	254.2	265.8	352.1	552.7	1068.1	3111.1	3463.2	2803.2	2644.7	930.5	566.7
87.5°	81.6	88.6	146.9	279.8	485.1	1469.2	1961.3	1294.4	1194.1	335.8	228.6
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°	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0	9725.0
2.5°	9739.0	9767.0	9692.4	9620.1	9554.8	9463.8	9382.2	9314.6	9267.9	9260.9	9237.6
5°	9771.7	9774.0	9631.8	9440.5	9254.0	9048.7	8836.5	8684.9	8542.6	8463.4	8423.7
7.5°	9795.0	9774.0	9517.4	9207.3	8848.1	8475.0	8101.9	7803.4	7572.5	7481.5	7516.5
10°	9785.7	9720.4	9344.9	8848.1	8325.7	7768.4	7231.9	6812.2	6427.4	6229.2	6233.9
12.5°	9734.3	9627.1	9088.4	8444.7	7677.4	6931.1	6110.2	5543.5	5098.0	4834.6	4752.9
15°	9690.0	9503.5	8787.5	7896.6	6942.8	5877.0	4876.5	4176.8	3803.7	3596.2	3593.8
17.5°	9643.4	9384.6	8458.7	7316.0	6098.6	4727.3	3677.8	3143.7	2968.8	2989.8	2954.8
20°	9594.4	9244.6	8115.9	6669.9	5070.1	3526.2	2754.3	2537.4	2586.3	2681.9	2695.9
22.5°	9538.4	9095.3	7747.4	5958.6	3988.0	2654.0	2234.2	2201.6	2327.5	2476.7	2497.7
25°	9452.1	8908.8	7283.3	5214.7	3076.1	2138.6	1956.6	1980.0	2103.6	2229.5	2243.5
27.5°	9330.9	8677.9	6814.5	4286.5	2311.2	1835.4	1788.8	1819.1	1879.7	1956.6	1975.4
30°	9167.7	8416.7	6275.8	3484.2	1851.7	1683.8	1665.1	1681.5	1716.5	1749.1	1758.5
32.5°	9004.4	8164.8	5732.4	2668.0	1651.2	1583.5	1564.9	1564.9	1564.9	1569.5	1571.9
35°	8852.8	7926.9	5149.4	2077.9	1546.2	1504.2	1478.5	1450.6	1446.0	1429.6	1429.6
37.5°	8768.8	7710.0	4529.0	1739.7	1469.2	1438.9	1403.9	1357.3	1331.6	1334.0	1329.3
40°	8785.2	7567.8	3964.6	1548.5	1406.3	1373.6	1320.0	1266.3	1250.1	1250.1	1245.4
42.5°	8969.4	7521.2	3423.6	1448.2	1345.7	1308.3	1240.7	1191.7	1182.4	1180.1	1184.8
45°	9393.9	7635.4	2938.5	1382.9	1294.4	1238.4	1170.7	1126.4	1117.1	1117.1	1114.8
47.5°	10221.8	8006.3	2591.0	1341.0	1257.0	1184.8	1114.8	1070.4	1054.2	1049.5	1049.5
50°	11509.1	8810.9	2332.2	1303.7	1210.4	1135.7	1063.5	1012.2	986.5	984.2	981.8
52.5°	13297.8	10065.5	2231.9	1275.7	1159.1	1084.5	1005.1	956.2	923.5	916.5	911.9
55°	15389.8	11817.0	2369.4	1254.7	1105.4	1026.1	944.5	893.2	862.9	848.9	846.6
57.5°	17812.9	13920.6	2891.9	1226.7	1056.4	963.2	883.9	832.6	799.9	783.6	778.9
60°	19988.8	16082.4	3803.7	1210.4	1014.5	895.5	813.9	767.3	737.0	720.6	718.3
62.5°	22379.2	18144.1	4892.8	1254.7	995.8	830.2	748.6	706.7	681.0	664.7	664.7
65°	24932.9	20208.0	5613.5	1403.9	1023.8	778.9	678.6	643.7	620.4	608.7	606.4
67.5°	26654.0	20921.7	4624.6	1557.9	1093.8	722.9	611.1	583.0	569.0	557.4	557.4
69°	26467.5	20019.1	3411.9	1597.6	1114.8	695.0	573.7	552.7	534.1	529.4	524.8
70°	25877.4	18990.6	2859.2	1571.9	1098.5	669.3	550.4	524.8	508.4	503.7	501.4
72.5°	23048.5	16469.6	2129.2	1366.6	935.2	580.7	487.4	464.1	450.1	443.1	443.1
75°	19149.2	13461.1	1662.8	1086.8	732.3	489.8	417.4	398.8	387.1	382.5	380.1
77.5°	10732.5	7516.5	1194.1	851.2	555.1	396.4	349.8	333.5	321.8	317.2	317.2
80°	2989.8	2147.9	702.0	562.0	377.8	300.8	277.5	265.8	249.5	237.9	244.8
82.5°	1126.4	930.5	401.1	338.2	240.2	200.5	193.6	184.2	177.3	160.9	160.9
85°	548.0	452.4	256.5	179.5	133.0	104.9	100.3	95.6	91.0	79.3	81.6
87.5°	188.9	200.5	112.0	65.3	39.6	25.7	21.0	11.7	11.7	11.7	11.7
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)