

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: P319328

Luminaire Tested: **GAN-SA4C-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 25455 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

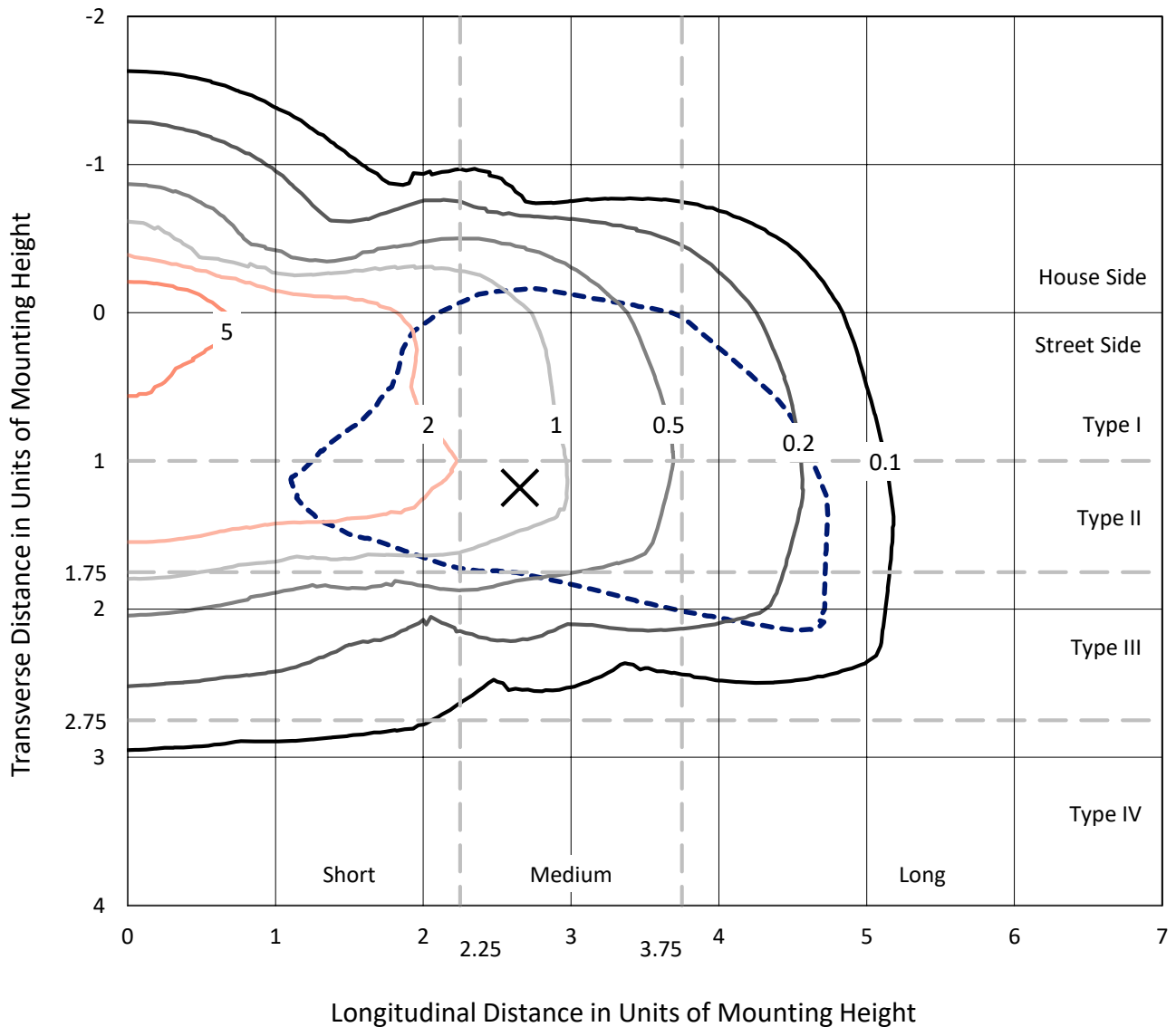
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

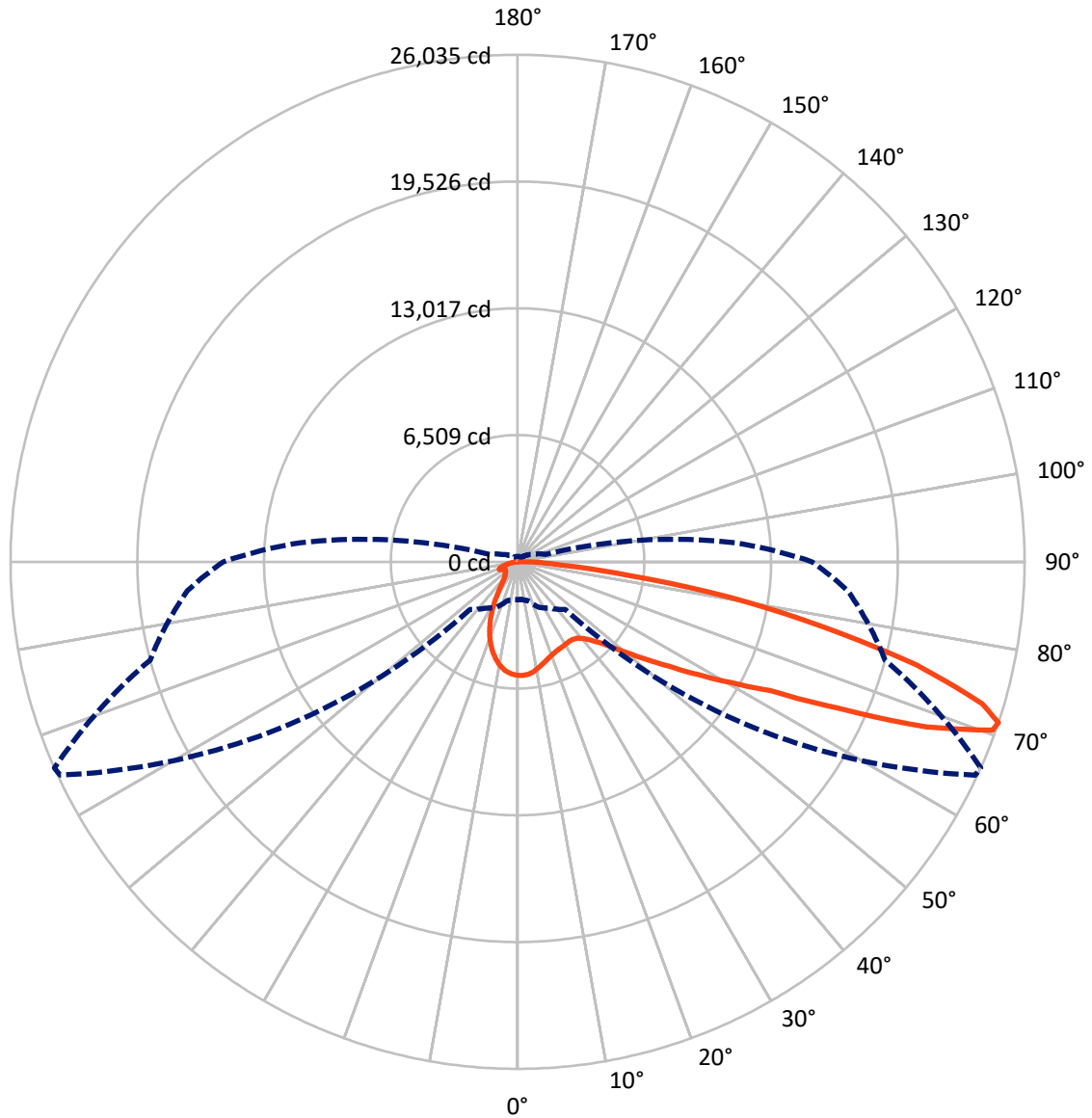
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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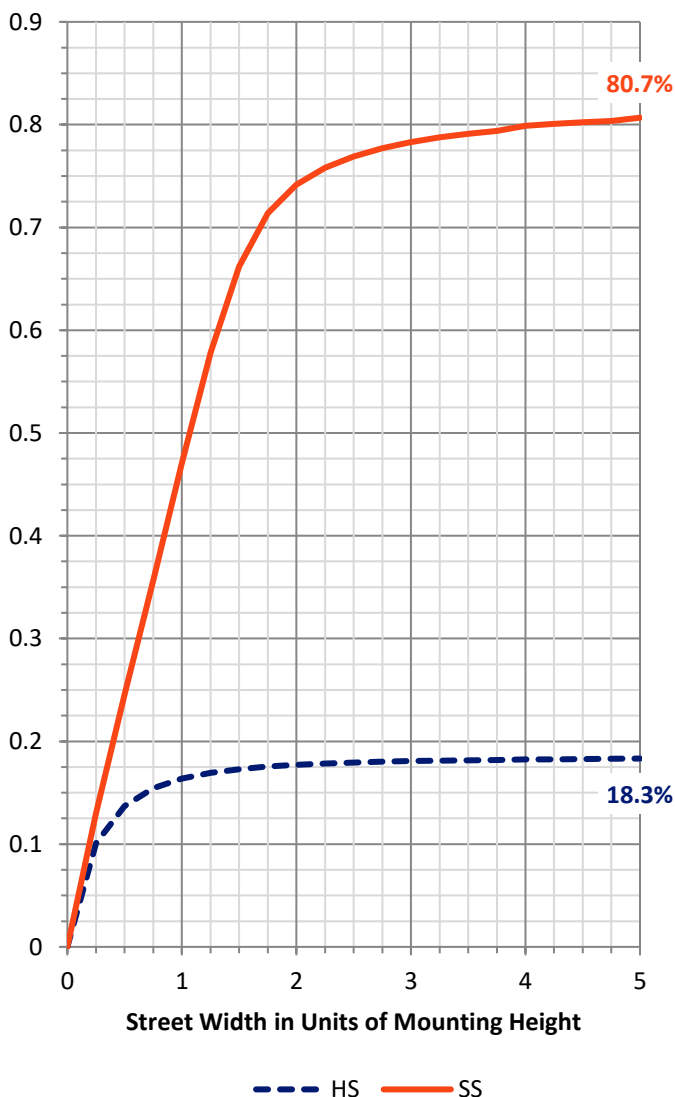
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4717.5	0.0	4717.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	20737.5	0.0	20737.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	25455.0	0.0	25455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	2.0
10°-20°	1231.1	4.8
20°-30°	1653.7	6.5
30°-40°	2175.4	8.5
40°-50°	3164.6	12.4
50°-60°	4943.4	19.4
60°-70°	6192.4	24.3
70°-80°	4723.4	18.6
80°-90°	857.7	3.4
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°	25455.0	100.0
0°-180°	25455.0	100.0

Coefficient of Utilization



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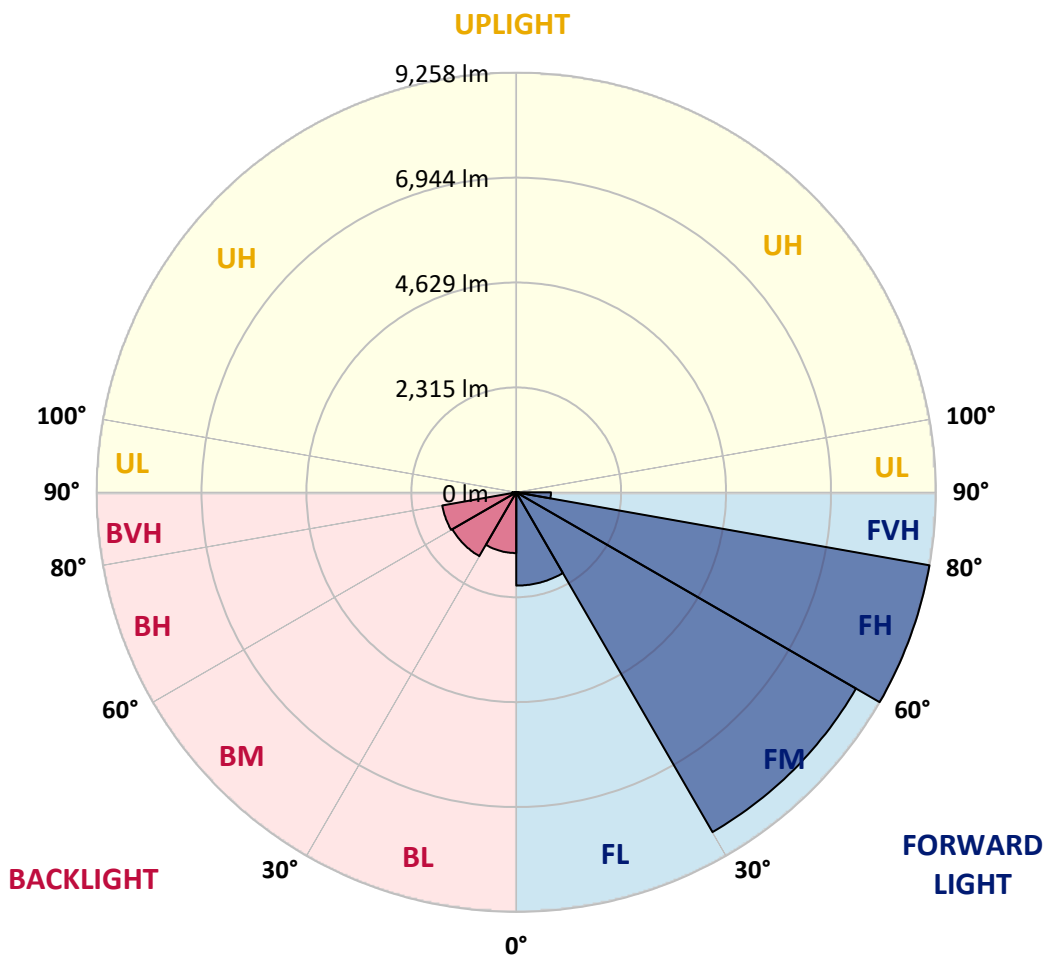
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.4	8.1			
FM (30°-60°)	8656.0	34.0			
FH (60°-80°)	9258.3	36.4			G4/12000
FVH (80°-90°)	764.9	3.0			G5
BL (0°-30°)	1339.6	5.3	B3/2500		
BM (30°-60°)	1627.4	6.4	B2/2500		
BH (60°-80°)	1657.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	92.8	0.4			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°	65°	66°	75°	85°
0°	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2
2.5°	5723.1	5714.4	5740.7	5768.0	5778.5	5796.1	5822.5	5837.4	5836.5	5839.2	5830.4
5°	5343.5	5332.1	5384.8	5427.9	5510.5	5603.6	5717.0	5797.9	5799.6	5845.3	5857.6
7.5°	4984.0	4976.1	5036.8	5106.2	5202.0	5344.4	5528.0	5702.1	5712.6	5836.5	5879.6
10°	4695.8	4694.0	4752.9	4828.5	4940.1	5099.2	5310.1	5565.0	5580.8	5794.3	5883.1
12.5°	4470.8	4474.3	4525.3	4611.4	4729.2	4895.3	5123.8	5411.2	5436.6	5727.5	5862.9
15°	4304.7	4318.7	4360.0	4447.0	4563.1	4731.8	4966.4	5268.8	5307.4	5652.8	5851.5
17.5°	4209.7	4225.6	4254.6	4326.6	4435.6	4598.2	4820.6	5151.9	5187.0	5595.7	5852.3
20°	4181.6	4194.8	4211.5	4255.4	4347.7	4495.4	4705.4	5046.4	5084.2	5550.0	5861.1
22.5°	4237.0	4246.7	4248.4	4244.9	4301.1	4421.6	4621.9	4969.1	5009.5	5520.1	5867.3
25°	4355.6	4368.8	4359.2	4326.6	4308.2	4382.0	4578.9	4918.1	4958.5	5498.2	5855.0
27.5°	4534.0	4535.8	4527.9	4485.7	4398.7	4386.4	4565.7	4888.2	4926.9	5472.7	5829.5
30°	4776.6	4788.0	4774.0	4716.9	4574.5	4456.7	4581.5	4859.2	4894.4	5440.2	5788.2
32.5°	5060.5	5088.6	5087.7	5028.0	4824.1	4614.0	4646.5	4841.6	4868.9	5405.9	5738.1
35°	5354.9	5393.6	5465.6	5440.2	5187.9	4862.7	4771.3	4869.8	4888.2	5401.5	5702.9
37.5°	5660.7	5699.4	5847.9	5916.5	5621.2	5218.7	4968.2	4969.1	4977.9	5455.1	5700.3
40°	5980.7	6022.0	6245.2	6423.6	6182.8	5669.5	5285.5	5176.5	5166.8	5586.9	5752.2
42.5°	6428.9	6465.8	6733.8	6961.5	6805.9	6246.9	5724.0	5496.4	5476.2	5845.3	5918.3
45°	6995.7	7027.4	7312.1	7555.6	7475.6	6906.1	6275.1	5936.7	5933.2	6276.0	6254.9
47.5°	7669.8	7694.4	7950.2	8185.7	8214.7	7664.6	6967.6	6616.1	6558.9	6866.5	6776.0
50°	8372.0	8399.3	8573.3	8826.4	9041.7	8679.6	7858.8	7448.4	7371.9	7646.1	7514.3
52.5°	8837.0	8873.0	9024.2	9344.9	9971.6	9792.3	8912.5	8457.3	8341.3	8590.9	8489.8
55°	8629.5	8710.4	8941.5	9455.7	10715.1	11492.0	10212.4	9634.1	9503.1	9710.5	9650.8
57.5°	7686.5	7797.3	8112.8	8906.4	10819.7	12989.6	12177.5	11020.0	10927.8	10868.0	10895.2
60°	5963.1	6069.4	6460.5	7494.9	10091.1	14082.9	15134.9	12728.6	12595.0	12029.9	12054.5
62.5°	4220.3	4166.7	4434.7	5191.4	8199.8	14211.2	18500.0	15013.6	14574.2	13256.8	13148.7
65°	3218.4	3206.1	3326.5	3567.3	4966.4	12675.8	20504.7	18854.2	18167.8	14699.8	14445.0
67.5°	2644.5	2622.5	2741.2	3091.8	3198.2	8177.8	20548.7	23310.1	22636.0	16496.2	15944.3
70°	2174.3	2149.7	2260.4	2713.0	2955.6	4147.3	17294.2	25919.4	25883.4	18770.7	17076.3
71°	1949.3	1931.7	2064.4	2567.2	2903.8	3456.6	14931.9	25926.4	26034.5	19540.6	17009.5
72.5°	1587.2	1593.4	1734.0	2285.0	2865.1	3052.3	10974.3	24718.0	24946.5	20274.5	16402.2
75°	1054.6	1059.9	1244.5	1757.7	2778.1	2986.4	6031.6	20741.1	21161.2	19835.0	14967.0
77.5°	708.4	706.6	832.3	1205.8	2420.4	2986.4	3536.5	15512.8	15974.2	15782.6	11538.6
80°	487.8	484.3	573.0	832.3	1832.4	3022.4	2734.1	10871.5	11011.3	8523.2	4689.6
82.5°	298.8	301.4	374.4	588.0	1247.1	2720.1	2581.2	5927.9	5775.9	2390.5	1171.5
85°	171.4	170.5	239.1	398.1	800.6	2295.6	2517.1	2551.3	2340.4	719.8	423.6
87.5°	61.5	65.9	128.3	220.6	458.8	1598.6	2135.6	1327.1	1196.1	325.2	191.6
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°	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2	5831.2
2.5°	5824.2	5829.5	5823.3	5788.2	5758.3	5710.0	5682.7	5644.9	5633.5	5628.2	5642.3
5°	5846.2	5847.9	5796.1	5703.8	5600.1	5477.9	5390.1	5282.0	5231.0	5209.0	5223.1
7.5°	5866.4	5858.5	5745.1	5568.5	5376.9	5164.2	4975.2	4802.1	4701.0	4659.7	4663.2
10°	5869.0	5835.6	5653.7	5380.4	5083.3	4771.3	4481.3	4214.1	4045.4	3935.5	3968.9
12.5°	5841.8	5785.5	5519.3	5136.9	4724.8	4299.4	3907.4	3506.7	3265.9	3154.2	3157.8
15°	5820.7	5718.8	5354.0	4850.4	4296.8	3733.4	3198.2	2727.1	2470.5	2356.2	2302.6
17.5°	5803.1	5646.7	5162.4	4527.9	3791.4	3076.9	2433.6	2013.5	1872.9	1839.5	1825.4
20°	5778.5	5570.2	4948.9	4154.4	3215.8	2342.2	1777.1	1569.6	1570.5	1609.2	1614.5
22.5°	5744.2	5483.2	4721.2	3735.2	2597.9	1705.9	1393.0	1333.2	1393.9	1467.7	1480.9
25°	5693.3	5380.4	4468.1	3272.0	1981.0	1311.3	1190.0	1187.3	1261.2	1338.5	1349.9
27.5°	5621.2	5245.9	4186.9	2774.6	1459.8	1114.4	1066.1	1084.5	1139.0	1195.3	1199.6
30°	5524.5	5089.5	3876.7	2249.9	1144.3	992.2	987.0	1003.7	1037.1	1076.6	1080.1
32.5°	5418.2	4930.4	3545.3	1741.9	979.9	926.3	931.6	939.5	955.3	971.1	974.7
35°	5321.5	4767.8	3206.1	1323.6	901.7	883.3	879.7	878.0	879.7	874.5	875.3
37.5°	5259.1	4633.4	2852.8	1053.8	856.9	845.5	834.9	821.7	806.8	798.0	799.8
40°	5236.3	4533.2	2495.1	910.5	820.0	812.1	791.9	763.7	746.2	740.9	740.9
42.5°	5297.8	4481.3	2149.7	838.4	789.2	776.0	742.6	710.1	696.9	696.1	695.2
45°	5485.9	4502.4	1821.0	798.9	761.1	735.6	691.7	664.4	655.6	657.4	656.5
47.5°	5823.3	4635.1	1539.8	772.5	733.0	699.6	650.4	628.4	617.8	617.8	618.7
50°	6397.2	4945.4	1315.7	750.5	709.2	666.2	620.5	593.2	579.2	578.3	578.3
52.5°	7233.0	5500.8	1175.9	732.1	682.9	636.3	590.6	556.3	539.6	536.1	534.3
55°	8280.6	6297.0	1137.2	719.8	647.7	603.8	554.6	520.3	501.8	493.9	493.0
57.5°	9452.2	7265.6	1213.7	704.8	611.7	565.1	515.0	482.5	463.2	453.5	452.6
60°	10637.7	8322.8	1525.7	683.8	581.8	522.9	474.6	444.7	425.4	414.8	413.1
62.5°	11825.1	9437.2	2162.9	682.0	560.7	482.5	433.3	407.8	389.3	377.9	375.3
65°	13164.5	10657.1	2887.1	728.6	553.7	445.6	391.1	370.9	355.1	344.5	343.6
67.5°	14702.5	12034.3	2817.6	824.4	577.4	412.2	351.5	335.7	324.3	315.5	314.6
70°	15424.0	11818.9	1751.6	892.0	610.8	379.7	313.8	302.3	293.5	287.4	284.8
71°	15121.7	11222.2	1468.6	884.1	607.3	365.6	298.8	290.0	281.2	276.0	273.3
72.5°	14297.3	10234.3	1225.1	822.6	567.7	340.1	279.5	270.7	262.8	256.6	254.9
75°	12829.6	9140.2	980.8	657.4	452.6	287.4	245.2	235.5	229.4	225.9	222.4
77.5°	9431.1	6522.9	758.5	519.4	333.1	234.7	209.2	202.1	196.0	190.7	188.1
80°	3613.0	2526.7	510.6	387.6	244.3	185.4	168.7	165.2	159.1	155.6	155.6
82.5°	972.9	754.9	272.4	234.7	163.5	135.3	129.2	127.4	122.2	115.1	116.0
85°	393.7	333.1	152.9	129.2	100.2	80.0	87.0	87.9	81.7	72.9	73.8
87.5°	173.1	141.5	85.2	57.1	43.9	30.8	39.5	39.5	36.0	29.9	27.2
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)