

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: P318379

Luminaire Tested: **GAN-SA5D-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35323 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

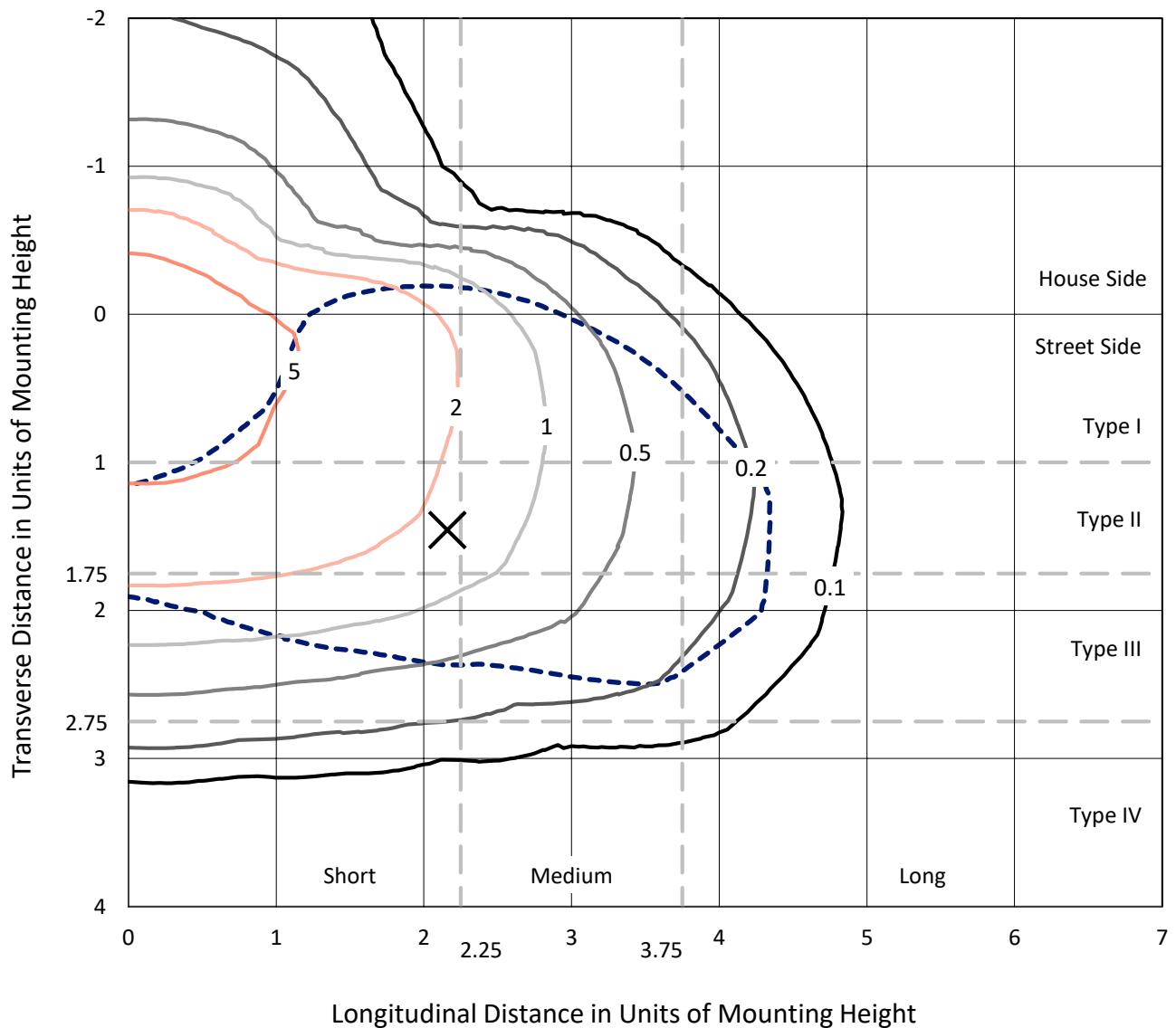
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

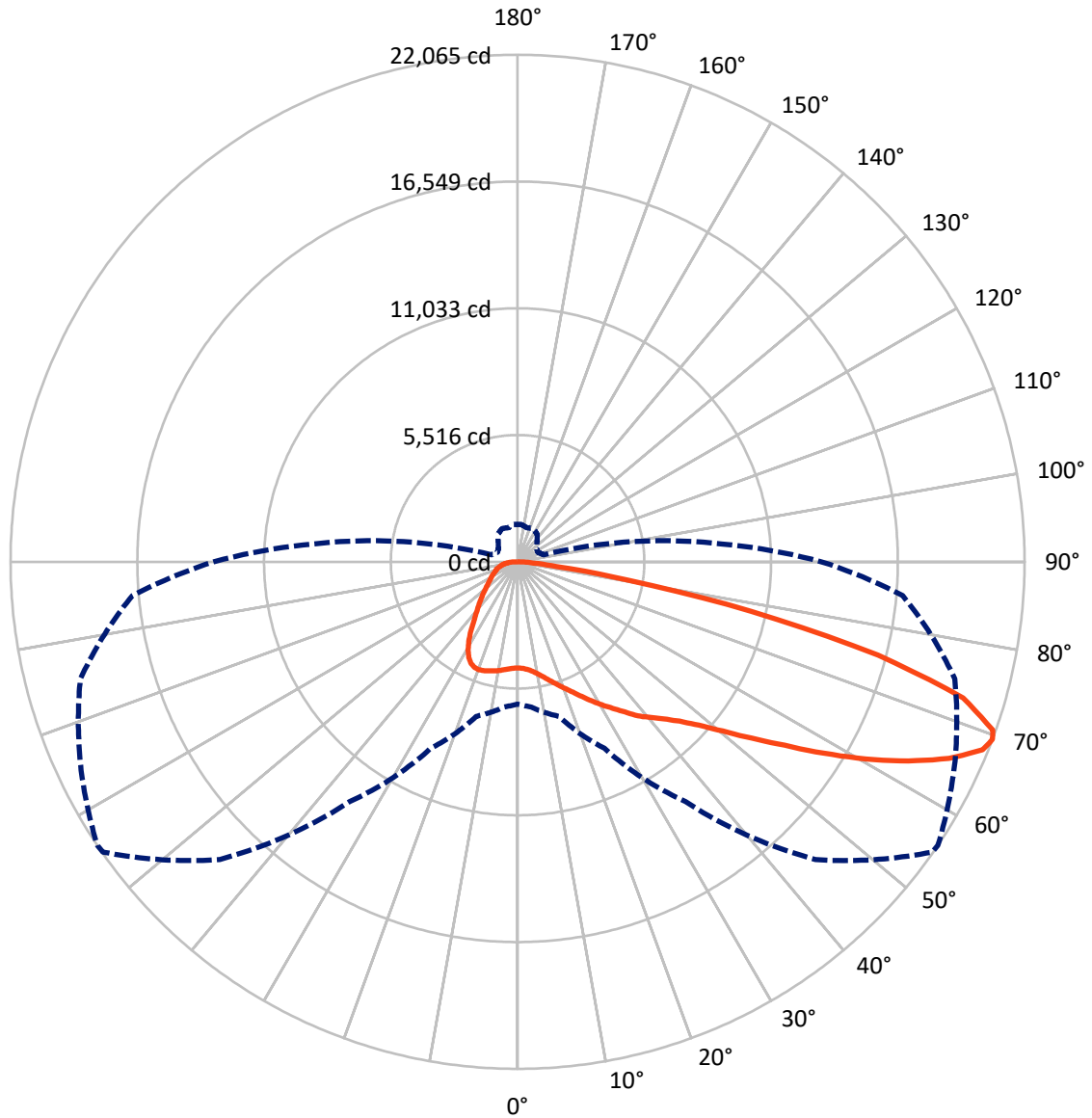
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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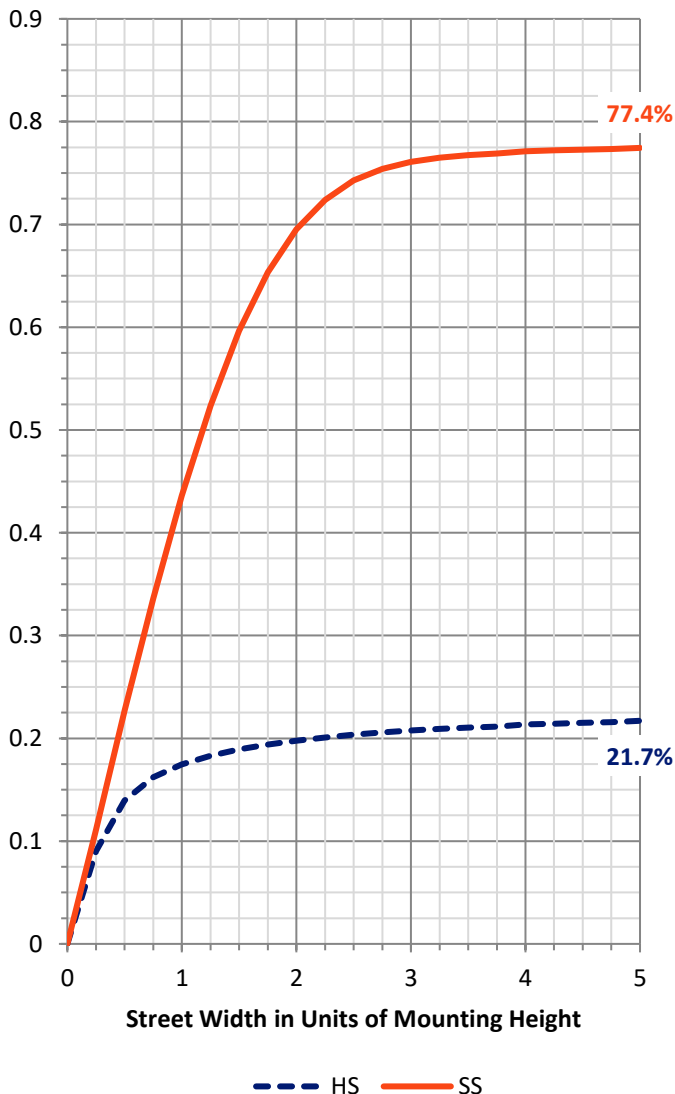
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7866.4	0.0	7866.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	27456.6	0.0	27456.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	35323.0	0.0	35323.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.6	1.3
10°-20°	1458.5	4.1
20°-30°	2545.9	7.2
30°-40°	3657.1	10.4
40°-50°	5061.2	14.3
50°-60°	7415.4	21.0
60°-70°	9040.8	25.6
70°-80°	4998.3	14.2
80°-90°	692.3	2.0
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°	35323.0	100.0
0°-180°	35323.0	100.0

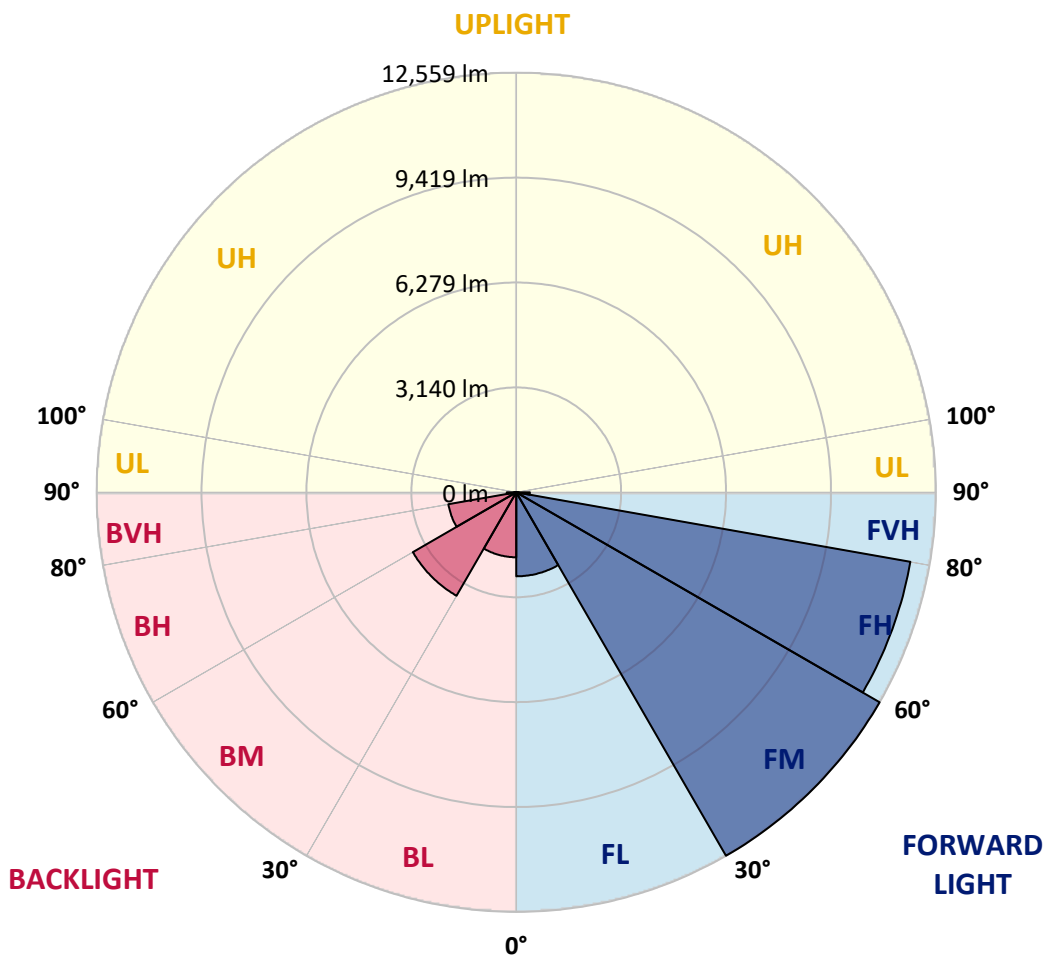


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.9	7.1			
FM (30°-60°)	12558.6	35.6			
FH (60°-80°)	11976.3	33.9			G4/12000
FVH (80°-90°)	407.8	1.2			G3/500
BL (0°-30°)	1944.0	5.5	B3/2500		
BM (30°-60°)	3575.1	10.1	B3/5000		
BH (60°-80°)	2062.8	5.8	B3/2500		G3/2500
BVH (80°-90°)	284.5	0.8			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0
2.5°	4647.2	4652.0	4648.4	4658.1	4647.2	4654.5	4648.4	4648.4	4644.7	4633.8	4621.6
5°	4720.2	4729.9	4723.8	4733.6	4720.2	4722.6	4711.6	4711.6	4700.7	4677.6	4653.2
7.5°	4834.6	4845.5	4840.6	4850.4	4832.1	4832.1	4817.5	4816.3	4794.4	4756.7	4728.7
10°	4970.8	4985.4	4980.6	4995.2	4980.6	4985.4	4970.8	4970.8	4941.6	4888.1	4852.8
12.5°	5169.2	5187.4	5174.1	5172.8	5166.8	5176.5	5164.3	5161.9	5135.1	5062.1	5013.4
15°	5434.5	5453.9	5425.9	5423.5	5389.4	5385.8	5385.8	5382.1	5365.1	5277.5	5197.2
17.5°	5739.9	5746.0	5721.6	5682.7	5638.9	5610.9	5607.3	5617.0	5617.0	5514.8	5387.0
20°	6039.2	6050.2	6030.7	5986.9	5930.9	5889.6	5860.4	5879.8	5878.6	5756.9	5575.6
22.5°	6365.3	6390.9	6361.7	6305.7	6240.0	6193.8	6142.7	6159.7	6160.9	6011.2	5760.6
25°	6787.6	6764.5	6746.2	6667.1	6573.4	6526.0	6478.5	6495.6	6490.7	6285.0	5951.6
27.5°	7161.2	7166.0	7141.7	7057.7	6949.4	6844.8	6842.4	6853.3	6835.1	6569.8	6131.7
30°	7595.6	7598.0	7563.9	7488.5	7370.5	7235.4	7203.8	7222.0	7183.1	6839.9	6321.5
32.5°	8027.6	8039.7	8002.0	7910.8	7815.8	7651.6	7588.3	7600.5	7503.1	7116.1	6517.5
35°	8406.0	8423.0	8410.9	8350.0	8246.6	8105.4	8030.0	8022.7	7902.2	7454.4	6776.6
37.5°	8791.8	8807.6	8794.2	8743.1	8701.7	8552.0	8511.9	8511.9	8302.6	7800.0	7106.4
40°	9188.4	9212.8	9197.0	9126.4	9091.1	9023.0	8926.8	8903.7	8677.4	8215.0	7644.3
42.5°	9557.1	9588.8	9652.1	9610.7	9538.9	9548.6	9355.2	9343.0	9177.5	8828.3	8319.6
45°	10080.4	10126.6	10233.7	10202.1	10187.5	10133.9	9904.0	9893.0	9829.7	9653.3	9158.0
47.5°	10651.1	10714.4	10907.9	10913.9	11070.9	10969.9	10657.2	10619.5	10634.1	10641.4	10181.4
50°	11176.8	11246.1	11563.7	11713.4	12083.3	12105.2	11605.1	11571.0	11628.2	11796.2	11373.9
52.5°	11596.6	11684.2	12080.9	12543.3	13177.3	13357.4	12772.1	12746.5	12789.1	13078.7	12722.2
55°	11904.5	11999.4	12431.4	13273.4	14285.8	14603.4	14115.5	14091.1	14117.9	14486.6	14188.5
57.5°	11976.3	11999.4	12626.0	13765.0	15221.6	15984.6	15759.4	15710.8	15579.3	15900.6	15806.9
60°	11639.2	11731.7	12465.4	13937.8	15945.6	17346.2	17477.6	17416.8	17048.1	17310.9	17235.5
62.5°	10955.3	11120.8	11865.5	13675.0	16229.1	18458.4	19163.0	19090.0	18454.8	18625.1	18262.5
65°	9838.2	9908.8	10691.3	12768.4	15869.0	19170.3	20665.8	20629.3	19829.8	19563.3	18452.3
67.5°	7840.2	7972.8	8637.2	10873.8	14395.4	19086.3	21827.9	21824.2	20727.8	19911.3	17779.4
69°	6193.8	6331.3	6964.0	8957.2	12738.0	18318.5	22022.6	22065.2	20980.9	19699.6	16818.1
70°	4938.0	5097.4	5531.8	7544.5	11266.8	17306.1	21860.7	21937.4	20932.3	19350.4	15931.0
72.5°	2101.5	2230.5	2539.6	3889.1	6866.7	12923.0	19988.0	20277.6	19804.3	17710.1	13166.3
75°	917.5	957.7	1097.6	1585.6	3048.2	7033.4	15658.4	16193.9	16933.7	14969.7	9807.8
77.5°	671.7	688.7	765.4	930.9	1367.7	2656.4	10069.4	10381.0	12212.3	10893.3	6016.1
80°	519.6	531.8	591.4	683.9	893.2	1074.5	4592.4	4860.1	6866.7	5595.1	2505.5
82.5°	413.7	422.2	463.6	503.8	616.9	651.0	1524.7	1691.4	2534.7	1545.4	663.2
85°	384.5	394.3	408.9	367.5	395.5	382.1	659.5	690.0	765.4	607.2	277.4
87.5°	174.0	205.6	405.2	286.0	210.5	167.9	270.1	282.3	317.6	318.8	122.9
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°	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0	4618.0
2.5°	4628.9	4625.3	4631.3	4616.7	4635.0	4633.8	4627.7	4630.1	4642.3	4641.1	4642.3
5°	4656.9	4654.5	4661.8	4650.8	4672.7	4680.0	4681.2	4692.2	4705.6	4709.2	4709.2
7.5°	4727.5	4727.5	4731.1	4716.5	4731.1	4729.9	4723.8	4734.8	4748.2	4749.4	4748.2
10°	4849.2	4850.4	4844.3	4806.6	4794.4	4761.5	4731.1	4732.3	4749.4	4762.8	4766.4
12.5°	5002.5	4997.6	4970.8	4901.5	4850.4	4783.4	4751.8	4750.6	4767.6	4778.6	4782.2
15°	5177.7	5164.3	5095.0	4981.8	4891.7	4826.0	4774.9	4762.8	4753.0	4740.9	4742.1
17.5°	5343.2	5312.8	5197.2	5040.2	4945.3	4857.7	4759.1	4680.0	4625.3	4593.6	4583.9
20°	5511.1	5451.5	5284.8	5095.0	4974.5	4815.1	4625.3	4464.6	4364.8	4318.6	4310.1
22.5°	5664.4	5568.3	5366.3	5152.1	4951.4	4671.5	4373.4	4139.7	4001.0	3938.9	3943.8
25°	5814.1	5680.3	5451.5	5192.3	4834.6	4418.4	4022.9	3735.7	3575.1	3505.7	3503.3
27.5°	5945.5	5793.4	5544.0	5159.4	4616.7	4058.2	3608.0	3328.1	3194.2	3134.6	3124.9
30°	6096.4	5935.8	5666.9	5034.1	4297.9	3642.0	3202.8	3005.6	2910.7	2851.1	2840.1
32.5°	6280.2	6129.3	5767.9	4806.6	3890.3	3207.6	2886.4	2748.9	2662.5	2595.5	2583.4
35°	6547.9	6384.8	5793.4	4480.4	3442.5	2864.5	2654.0	2512.8	2396.0	2309.6	2301.1
37.5°	6883.7	6704.9	5735.0	4058.2	3008.1	2641.8	2460.5	2286.5	2134.4	2012.7	1993.2
40°	7368.0	7097.9	5573.2	3571.5	2688.0	2470.2	2271.9	2073.5	1884.9	1742.5	1714.5
42.5°	7949.7	7559.1	5324.9	3087.2	2453.2	2296.2	2084.5	1838.7	1658.6	1557.6	1543.0
45°	8689.5	8038.5	4980.6	2663.7	2222.0	2122.2	1882.5	1656.1	1544.2	1470.0	1457.8
47.5°	9534.0	8576.4	4619.2	2319.3	2026.1	1959.1	1720.6	1574.6	1485.8	1427.4	1416.4
50°	10572.0	9183.6	4235.9	2037.0	1828.9	1763.2	1644.0	1529.6	1459.0	1414.0	1403.0
52.5°	11742.6	9868.7	3959.6	1814.3	1665.9	1618.4	1603.8	1505.2	1448.1	1414.0	1403.0
55°	13003.3	10565.9	3661.5	1626.9	1524.7	1538.1	1577.0	1507.7	1468.7	1427.4	1411.5
57.5°	14265.1	11286.3	3329.3	1468.7	1412.8	1478.5	1558.8	1512.5	1479.7	1439.5	1424.9
60°	15263.0	11742.6	2814.6	1336.1	1323.9	1412.8	1515.0	1476.0	1433.5	1434.7	1432.2
62.5°	15729.0	11718.3	2246.3	1218.1	1235.1	1323.9	1444.4	1418.8	1383.6	1431.0	1434.7
65°	15467.4	11134.2	1748.6	1111.0	1140.2	1231.5	1371.4	1390.9	1403.0	1494.3	1506.5
67.5°	14369.8	9997.6	1354.4	1017.3	1053.8	1168.2	1378.7	1515.0	1530.8	1626.9	1625.7
69°	13234.5	8931.7	1176.7	968.6	1011.2	1184.0	1473.6	1594.1	1534.4	1636.7	1622.1
70°	12282.9	8088.4	1081.8	935.8	991.7	1212.0	1536.9	1592.9	1516.2	1603.8	1579.5
72.5°	9459.8	5819.0	917.5	874.9	926.0	1159.7	1555.1	1557.6	1473.6	1490.6	1449.3
75°	6488.3	3677.3	800.7	792.2	826.2	1045.3	1496.7	1488.2	1362.9	1338.5	1304.5
77.5°	3577.5	1867.9	680.2	713.1	736.2	926.0	1360.4	1348.3	1244.8	1193.7	1181.6
80°	1379.9	817.7	574.4	634.0	648.6	801.9	1192.5	1181.6	1095.2	1029.5	1011.2
82.5°	520.8	428.3	474.6	548.8	543.9	662.0	1010.0	1003.9	919.9	823.8	794.6
85°	240.9	256.8	376.0	452.7	417.4	490.4	808.0	818.9	716.7	602.3	602.3
87.5°	102.2	143.6	266.5	341.9	281.1	331.0	592.6	565.8	519.6	360.2	338.3
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)