

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: P318361

Luminaire Tested: **GAN-SA7B-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318361  
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-SA7B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36819 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

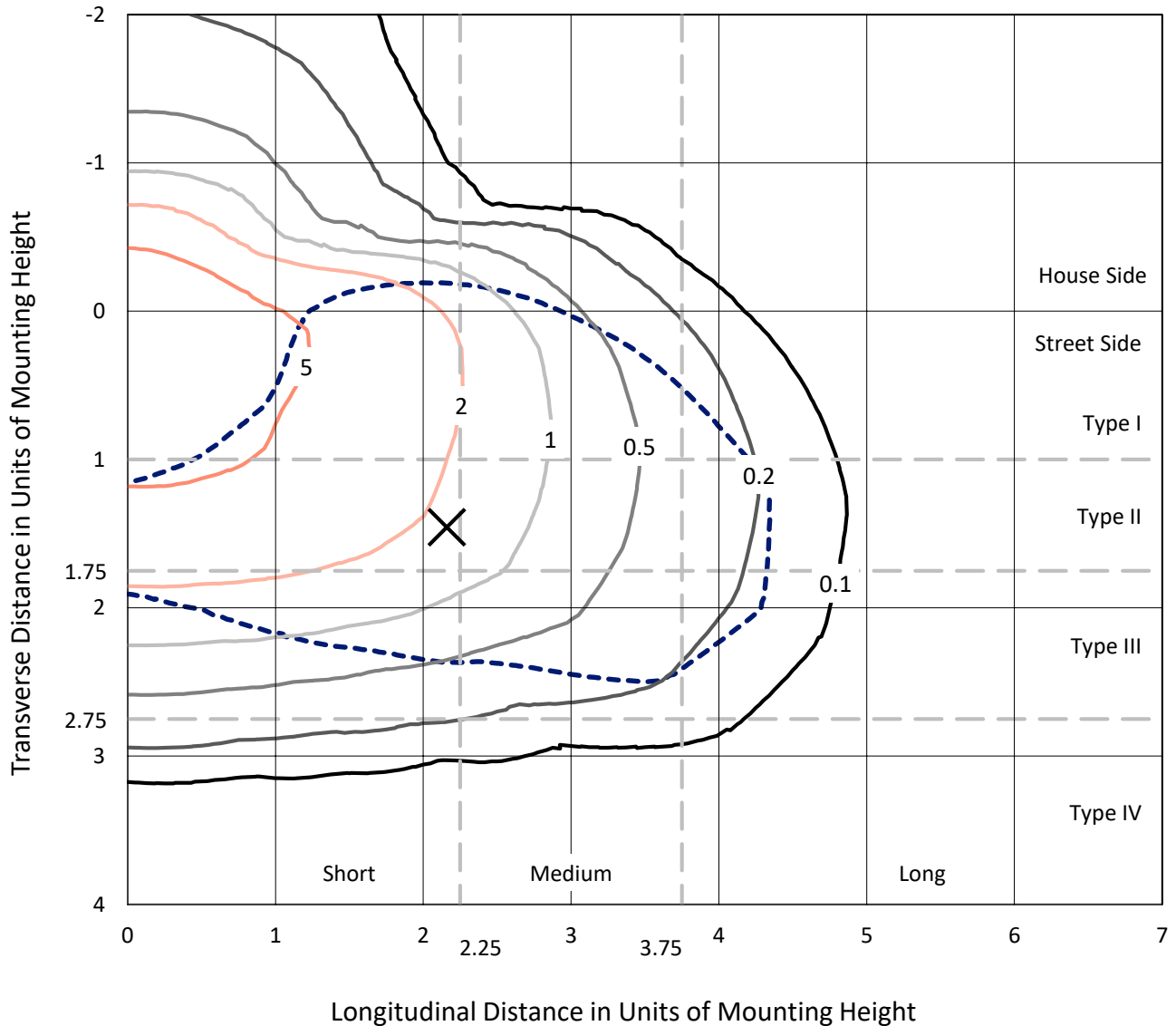
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

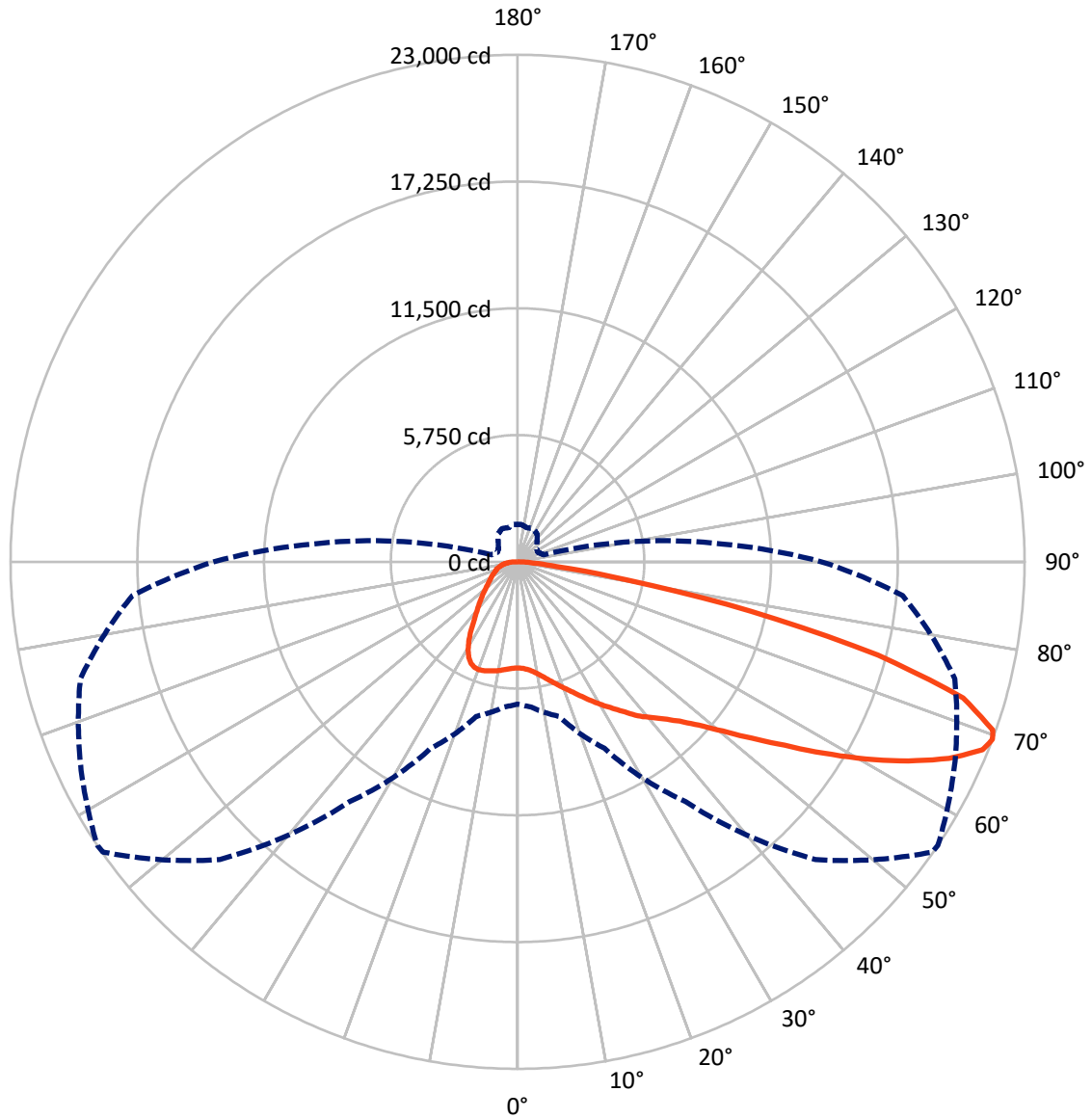
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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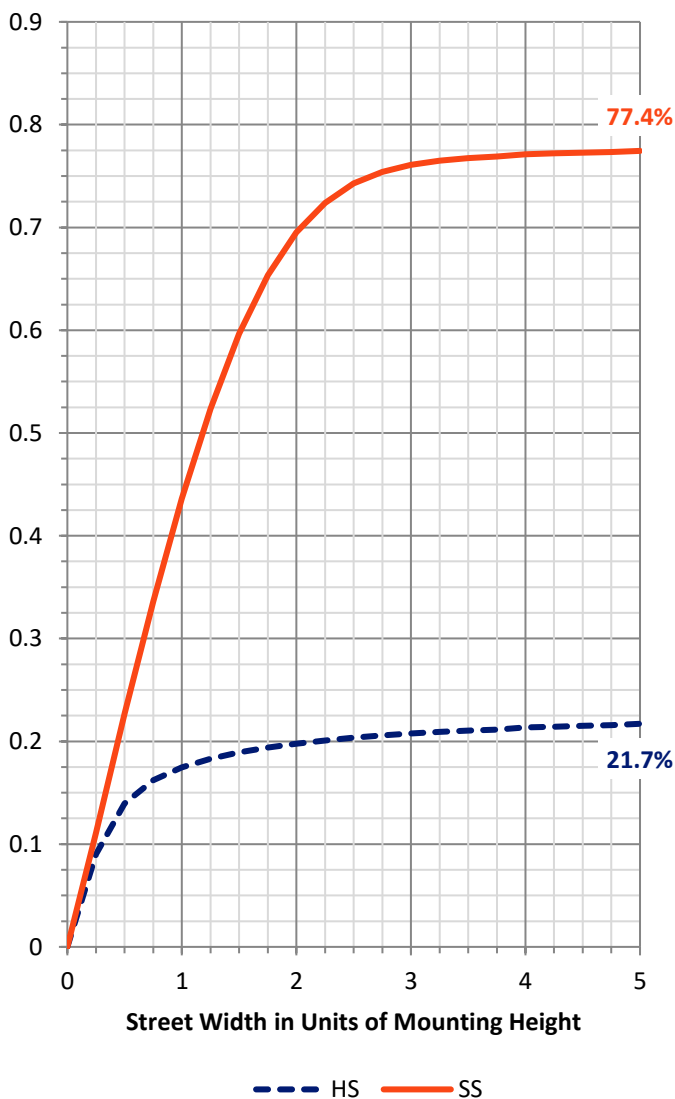
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8199.5	0.0	8199.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	28619.5	0.0	28619.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	36819.0	0.0	36819.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.8	1.3
10°-20°	1520.2	4.1
20°-30°	2653.7	7.2
30°-40°	3812.0	10.4
40°-50°	5275.6	14.3
50°-60°	7729.5	21.0
60°-70°	9423.7	25.6
70°-80°	5210.0	14.2
80°-90°	721.6	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°	36819.0	100.0
0°-180°	36819.0	100.0

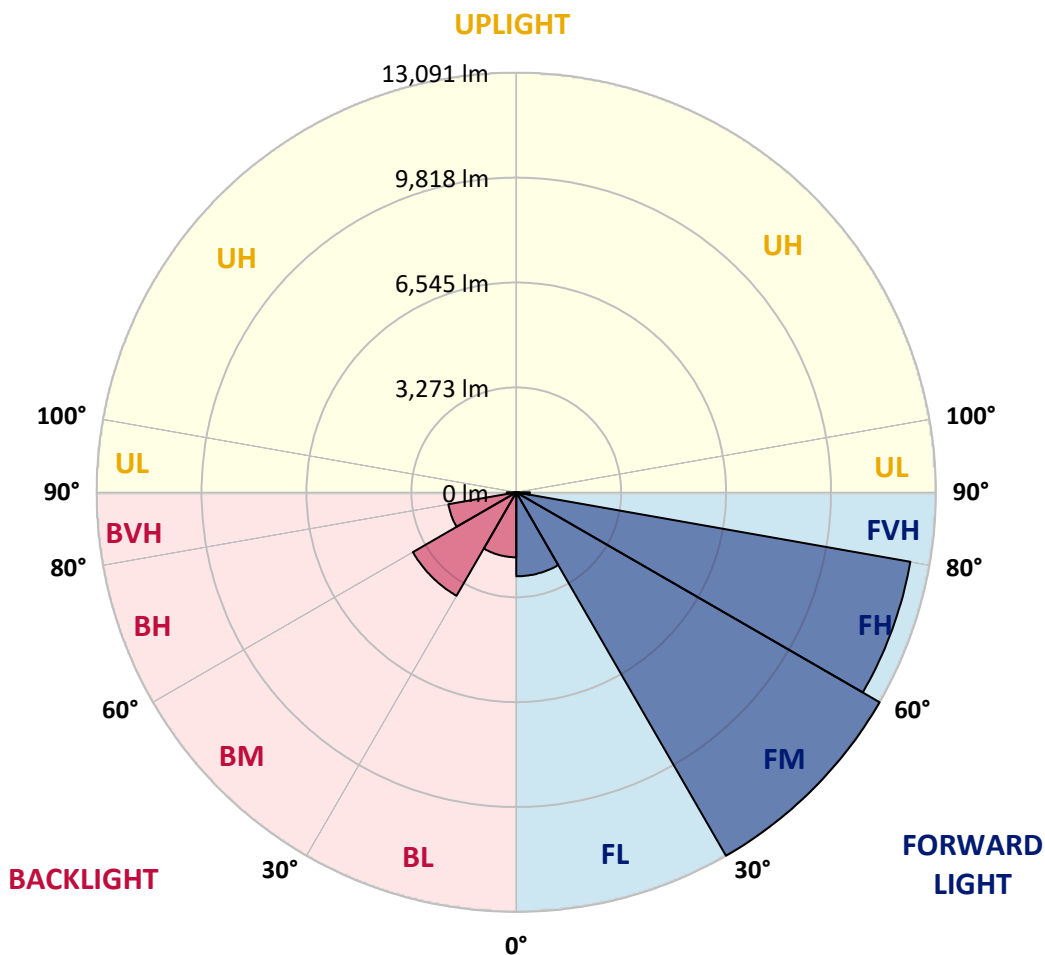


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2620.4	7.1			
FM (30°-60°)	13090.5	35.6			
FH (60°-80°)	12483.5	33.9			G5
FVH (80°-90°)	425.0	1.2			G3/500
BL (0°-30°)	2026.3	5.5	B3/2500		
BM (30°-60°)	3726.5	10.1	B3/5000		
BH (60°-80°)	2150.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	296.6	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-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5
2.5°	4844.0	4849.0	4845.2	4855.4	4844.0	4851.6	4845.2	4845.2	4841.4	4830.0	4817.3
5°	4920.1	4930.2	4923.9	4934.0	4920.1	4922.6	4911.2	4911.2	4899.8	4875.7	4850.3
7.5°	5039.3	5050.7	5045.6	5055.8	5036.8	5036.8	5021.5	5020.3	4997.4	4958.1	4929.0
10°	5181.4	5196.6	5191.5	5206.7	5191.5	5196.6	5181.4	5181.4	5150.9	5095.1	5058.3
12.5°	5388.1	5407.1	5393.2	5391.9	5385.6	5395.7	5383.0	5380.5	5352.6	5276.5	5225.8
15°	5664.6	5684.9	5655.7	5653.2	5617.7	5613.9	5613.9	5610.1	5592.3	5501.0	5417.3
17.5°	5983.0	5989.3	5964.0	5923.4	5877.7	5848.5	5844.7	5854.9	5854.9	5748.3	5615.2
20°	6295.0	6306.4	6286.1	6240.5	6182.1	6139.0	6108.6	6128.8	6127.6	6000.7	5811.8
22.5°	6634.9	6661.6	6631.1	6572.8	6504.3	6456.1	6402.8	6420.6	6421.8	6265.8	6004.5
25°	7075.1	7051.0	7031.9	6949.5	6851.8	6802.4	6752.9	6770.7	6765.6	6551.2	6203.7
27.5°	7464.5	7469.5	7444.2	7356.6	7243.8	7134.7	7132.1	7143.6	7124.5	6848.0	6391.4
30°	7917.3	7919.8	7884.3	7805.7	7682.6	7541.8	7508.9	7527.9	7487.3	7129.6	6589.3
32.5°	8367.6	8380.2	8340.9	8245.8	8146.9	7975.6	7909.7	7922.3	7820.9	7417.5	6793.5
35°	8762.0	8779.8	8767.1	8703.7	8595.9	8448.7	8370.1	8362.5	8236.9	7770.1	7063.6
37.5°	9164.1	9180.6	9166.6	9113.4	9070.2	8914.2	8872.4	8872.4	8654.2	8130.4	7407.4
40°	9577.6	9603.0	9586.5	9512.9	9476.1	9405.1	9304.9	9280.8	9044.9	8562.9	7968.0
42.5°	9961.9	9994.9	10060.8	10017.7	9942.9	9953.0	9751.4	9738.7	9566.2	9202.2	8672.0
45°	10507.3	10555.5	10667.1	10634.2	10618.9	10563.1	10323.4	10312.0	10246.0	10062.1	9545.9
47.5°	11102.2	11168.2	11369.8	11376.2	11539.8	11434.5	11108.5	11069.2	11084.4	11092.0	10612.6
50°	11650.1	11722.4	12053.5	12209.5	12595.1	12617.9	12096.6	12061.1	12120.7	12295.7	11855.6
52.5°	12087.7	12179.1	12592.5	13074.5	13735.4	13923.1	13313.0	13286.4	13330.8	13632.6	13261.0
55°	12408.6	12507.6	12957.8	13835.6	14890.9	15221.9	14713.3	14687.9	14715.8	15100.2	14789.4
57.5°	12483.5	12507.6	13160.8	14348.0	15866.3	16661.5	16426.9	16376.1	16239.2	16574.0	16476.4
60°	12132.1	12228.5	12993.4	14528.1	16620.9	18080.9	18217.8	18154.4	17770.1	18044.1	17965.4
62.5°	11419.3	11591.8	12368.0	14254.1	16916.5	19240.2	19974.6	19898.5	19236.4	19413.9	19036.0
65°	10254.9	10328.5	11144.1	13309.2	16541.0	19982.2	21541.0	21503.0	20669.6	20391.9	19233.8
67.5°	8172.2	8310.5	9003.0	11334.3	15005.0	19894.7	22752.3	22748.5	21605.7	20754.6	18532.4
69°	6456.1	6599.4	7259.0	9336.6	13277.5	19094.3	22955.3	22999.7	21869.5	20533.9	17530.4
70°	5147.1	5313.3	5766.1	7864.0	11744.0	18039.0	22786.6	22866.5	21818.8	20169.9	16605.7
72.5°	2190.5	2325.0	2647.1	4053.8	7157.5	13470.3	20834.5	21136.4	20643.0	18460.1	13724.0
75°	956.4	998.2	1144.1	1652.7	3177.3	7331.3	16321.6	16879.7	17650.9	15603.7	10223.2
77.5°	700.1	717.9	797.8	970.3	1425.7	2768.9	10495.9	10820.6	12729.5	11354.6	6270.9
80°	541.6	554.3	616.4	712.8	931.0	1120.0	4786.9	5065.9	7157.5	5832.0	2611.6
82.5°	431.3	440.1	483.3	525.1	643.1	678.6	1589.3	1763.1	2642.1	1610.9	691.3
85°	400.8	411.0	426.2	383.1	412.2	398.3	687.5	719.2	797.8	632.9	289.2
87.5°	181.4	214.4	422.4	298.1	219.4	175.0	281.6	294.3	331.0	332.3	128.1
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°	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5	4813.5
2.5°	4824.9	4821.1	4827.5	4812.3	4831.3	4830.0	4823.7	4826.2	4838.9	4837.6	4838.9
5°	4854.1	4851.6	4859.2	4847.8	4870.6	4878.2	4879.5	4890.9	4904.9	4908.7	4908.7
7.5°	4927.7	4927.7	4931.5	4916.3	4931.5	4930.2	4923.9	4935.3	4949.2	4950.5	4949.2
10°	5054.5	5055.8	5049.5	5010.1	4997.4	4963.2	4931.5	4932.8	4950.5	4964.5	4968.3
12.5°	5214.3	5209.3	5181.4	5109.1	5055.8	4986.0	4953.1	4951.8	4969.5	4981.0	4984.8
15°	5397.0	5383.0	5310.7	5192.8	5098.9	5030.4	4977.2	4964.5	4954.3	4941.6	4942.9
17.5°	5569.5	5537.8	5417.3	5253.7	5154.7	5063.4	4960.7	4878.2	4821.1	4788.2	4778.0
20°	5744.5	5682.4	5508.6	5310.7	5185.2	5019.0	4821.1	4653.7	4549.7	4501.5	4492.6
22.5°	5904.3	5804.1	5593.6	5370.4	5161.1	4869.3	4558.6	4315.1	4170.5	4105.8	4110.8
25°	6060.4	5920.8	5682.4	5412.2	5039.3	4605.5	4193.3	3893.9	3726.5	3654.2	3651.7
27.5°	6197.3	6038.8	5778.8	5378.0	4812.3	4230.1	3760.8	3469.0	3329.5	3267.4	3257.2
30°	6354.6	6187.2	5906.9	5247.3	4479.9	3796.3	3338.4	3132.9	3034.0	2971.8	2960.4
32.5°	6546.1	6388.9	6012.2	5010.1	4055.0	3343.5	3008.6	2865.3	2775.2	2705.5	2692.8
35°	6825.2	6655.2	6038.8	4670.2	3588.3	2985.8	2766.4	2619.2	2497.5	2407.4	2398.5
37.5°	7175.3	6988.8	5977.9	4230.1	3135.5	2753.7	2564.7	2383.3	2224.8	2097.9	2077.6
40°	7680.1	7398.5	5809.2	3722.7	2801.9	2574.8	2368.1	2161.3	1964.7	1816.3	1787.2
42.5°	8286.4	7879.2	5550.5	3217.9	2557.1	2393.4	2172.7	1916.5	1728.8	1623.5	1608.3
45°	9057.6	8379.0	5191.5	2776.5	2316.1	2212.1	1962.2	1726.3	1609.6	1532.2	1519.5
47.5°	9937.8	8939.6	4814.8	2417.5	2111.9	2042.1	1793.5	1641.3	1548.7	1487.8	1476.4
50°	11019.7	9572.5	4415.3	2123.3	1906.4	1837.9	1713.6	1594.4	1520.8	1473.9	1462.5
52.5°	12239.9	10286.6	4127.3	1891.2	1736.4	1687.0	1671.7	1569.0	1509.4	1473.9	1462.5
55°	13554.0	11013.4	3816.6	1695.8	1589.3	1603.2	1643.8	1571.5	1530.9	1487.8	1471.3
57.5°	14869.3	11764.3	3470.3	1530.9	1472.6	1541.1	1624.8	1576.6	1542.4	1500.5	1485.3
60°	15909.4	12239.9	2933.8	1392.7	1380.0	1472.6	1579.1	1538.6	1494.2	1495.4	1492.9
62.5°	16395.2	12214.6	2341.4	1269.7	1287.4	1380.0	1505.6	1478.9	1442.2	1491.6	1495.4
65°	16122.5	11605.7	1822.7	1158.0	1188.5	1283.6	1429.5	1449.8	1462.5	1557.6	1570.3
67.5°	14978.4	10421.1	1411.7	1060.4	1098.4	1217.7	1437.1	1579.1	1595.6	1695.8	1694.6
69°	13795.0	9310.0	1226.5	1009.6	1054.0	1234.1	1536.0	1661.6	1599.4	1706.0	1690.8
70°	12803.1	8431.0	1127.6	975.4	1033.7	1263.3	1602.0	1660.3	1580.4	1671.7	1646.4
72.5°	9860.4	6065.4	956.4	912.0	965.2	1208.8	1621.0	1623.5	1536.0	1553.8	1510.6
75°	6763.0	3833.1	834.6	825.7	861.2	1089.5	1560.1	1551.2	1420.6	1395.2	1359.7
77.5°	3729.1	1947.0	709.0	743.3	767.4	965.2	1418.1	1405.4	1297.6	1244.3	1231.6
80°	1438.4	852.4	598.7	660.8	676.1	835.9	1243.0	1231.6	1141.5	1073.1	1054.0
82.5°	542.9	446.5	494.7	572.0	567.0	690.0	1052.8	1046.4	958.9	858.7	828.3
85°	251.1	267.6	391.9	471.8	435.1	511.2	842.2	853.6	747.1	627.9	627.9
87.5°	106.5	149.7	277.8	356.4	293.0	345.0	617.7	589.8	541.6	375.4	352.6
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)