

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: P320938

Luminaire Tested: **GAN-SA4D-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29243 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

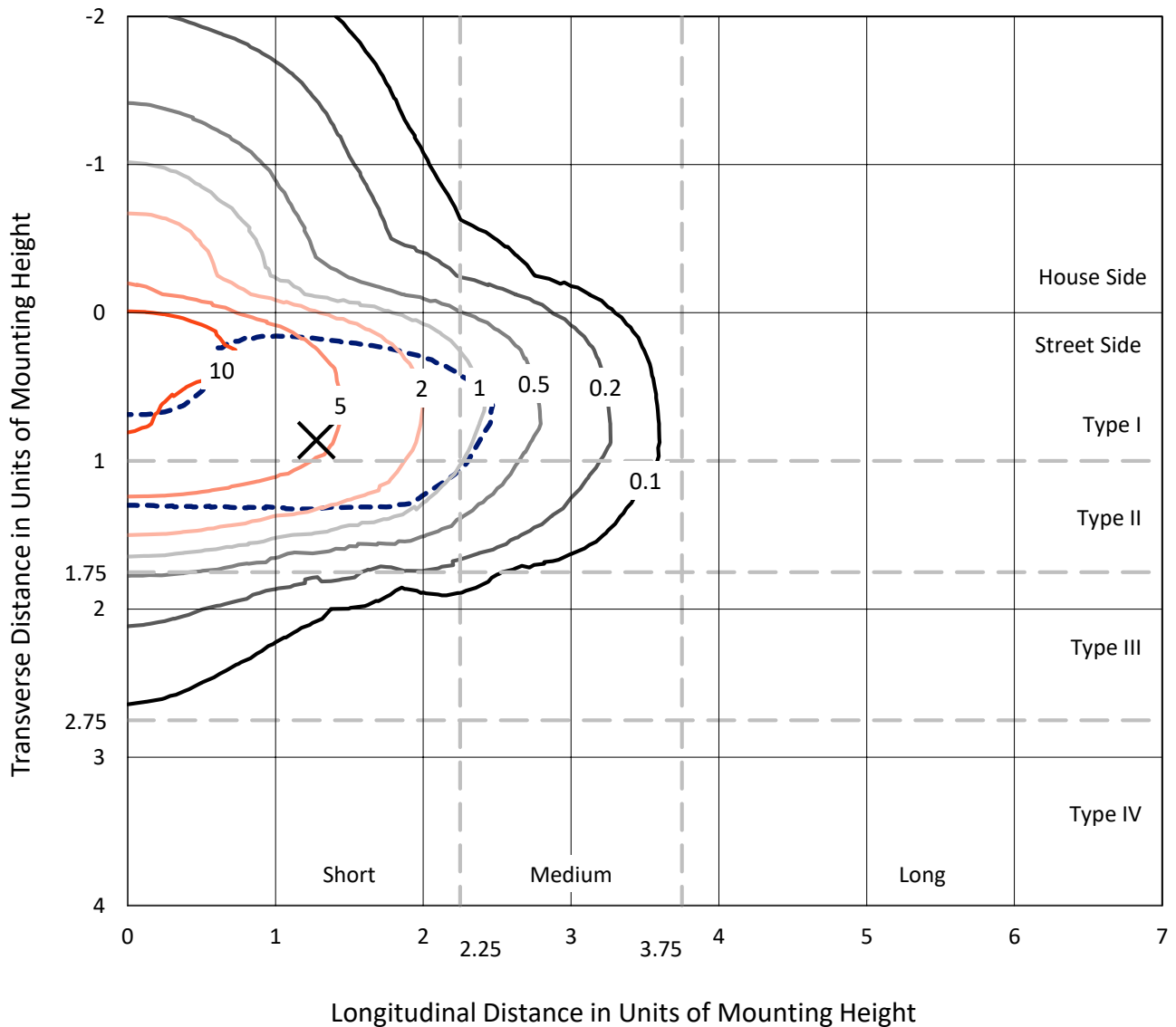
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

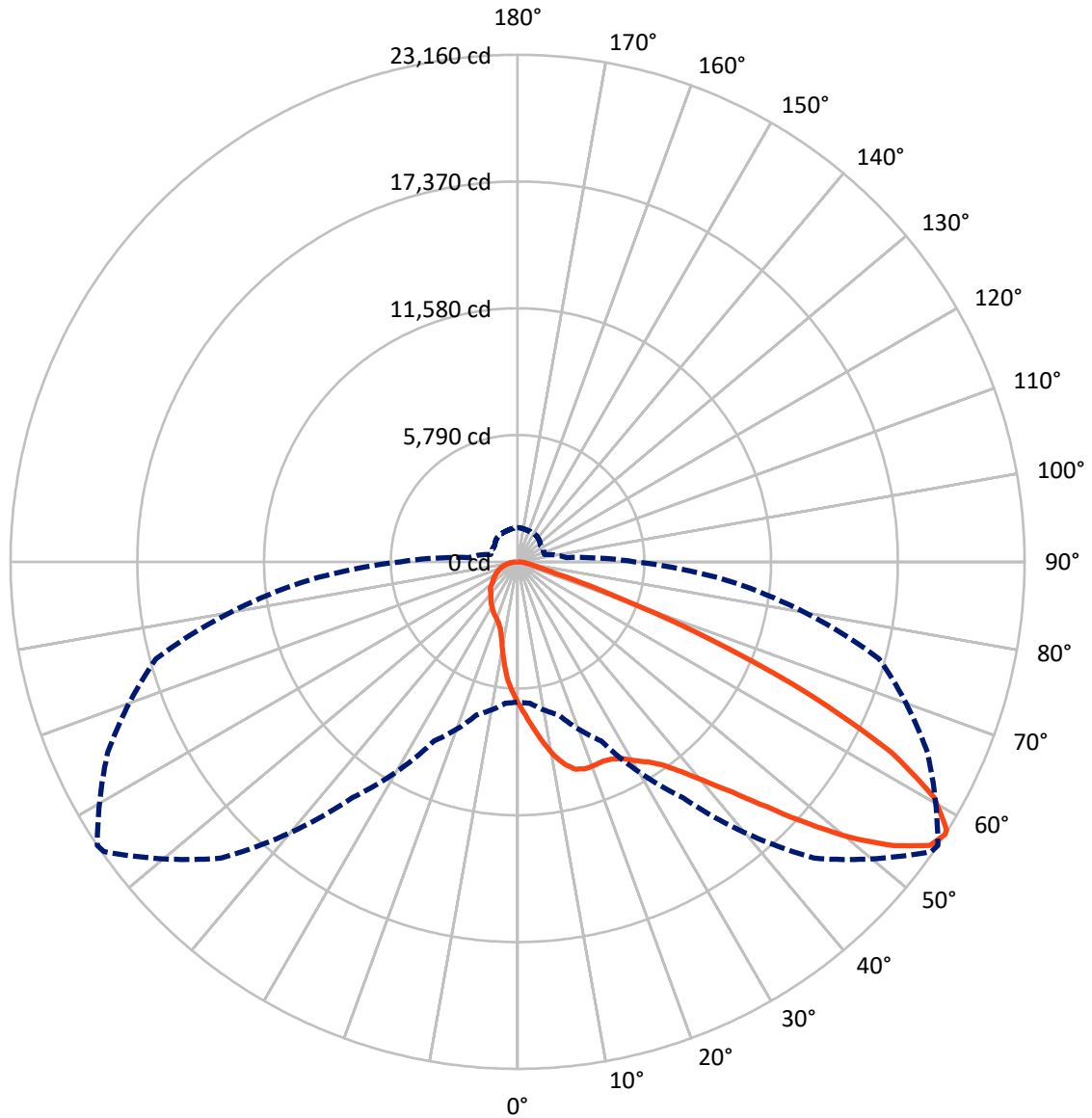
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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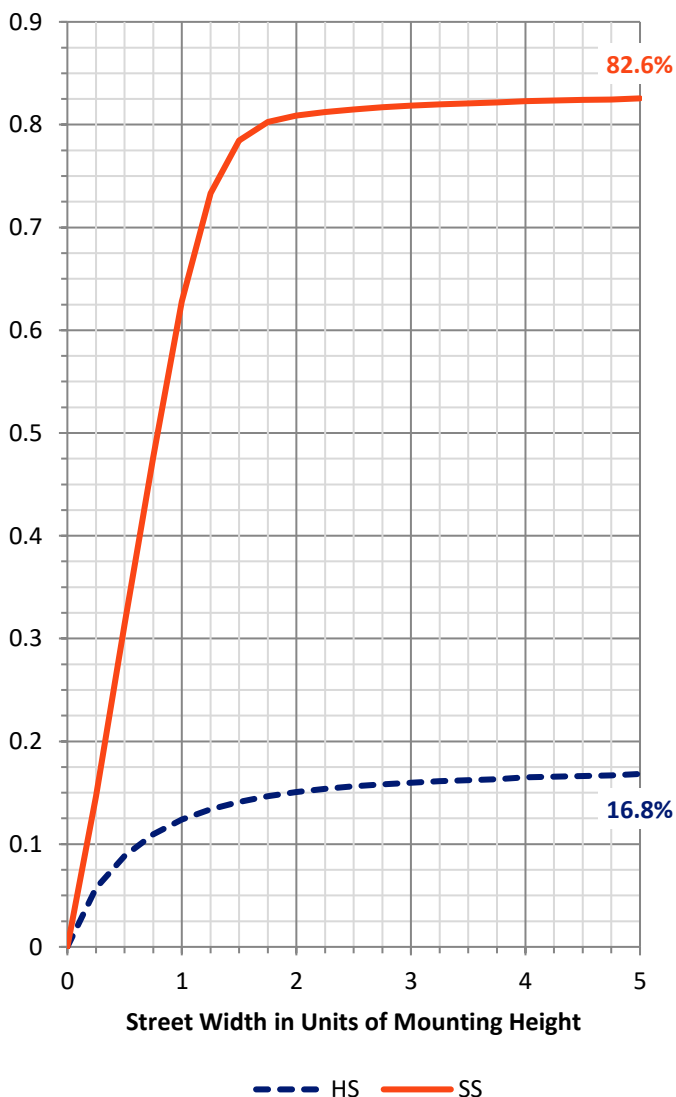
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5040.9	0.0	5040.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24202.1	0.0	24202.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	29243.0	0.0	29243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	2.1
10°-20°	1751.7	6.0
20°-30°	2853.2	9.8
30°-40°	4265.2	14.6
40°-50°	6469.5	22.1
50°-60°	7251.1	24.8
60°-70°	4282.8	14.6
70°-80°	1403.2	4.8
80°-90°	346.7	1.2
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°	29243.0	100.0
0°-180°	29243.0	100.0

Coefficient of Utilization

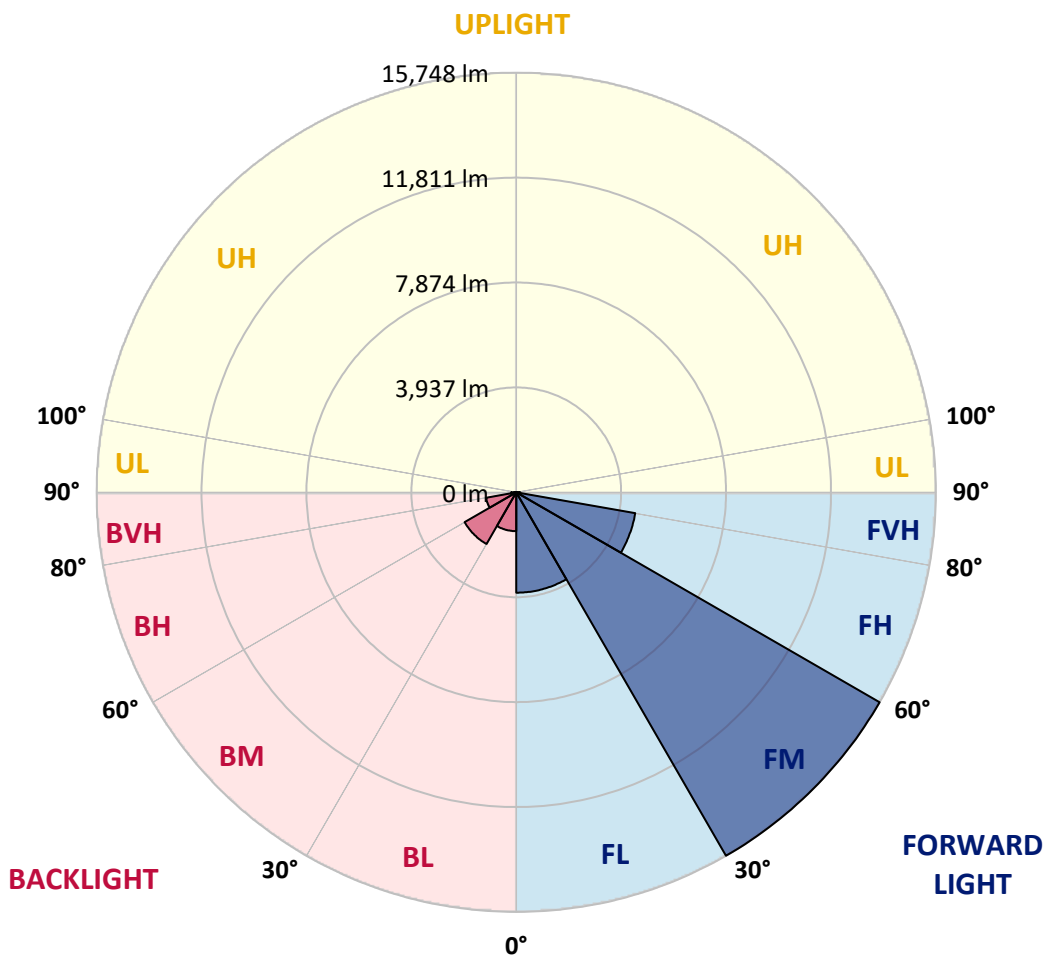


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3766.9	12.9			
FM (30°-60°)	15748.3	53.9			
FH (60°-80°)	4534.2	15.5			G2/5000
FVH (80°-90°)	152.7	0.5			G2/225
BL (0°-30°)	1457.6	5.0	B3/2500		
BM (30°-60°)	2237.5	7.7	B2/2500		
BH (60°-80°)	1151.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	194.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1
2.5°	7447.9	7516.2	7486.1	7381.6	7301.2	7187.6	7061.0	7022.8	6889.1	6739.4	6559.5
5°	8626.7	8592.6	8543.3	8380.5	8208.7	8008.7	7691.1	7640.8	7343.4	7004.7	6646.9
7.5°	9298.1	9295.0	9265.9	9170.4	9013.6	8752.3	8369.5	8310.2	7860.9	7316.2	6761.5
10°	9200.6	9193.5	9241.8	9341.3	9388.5	9334.2	9011.6	8952.3	8400.6	7660.9	6894.1
12.5°	8646.8	8650.8	8728.2	8937.3	9221.7	9563.4	9511.1	9482.0	8960.4	8050.9	7054.9
15°	8215.7	8224.7	8286.0	8467.9	8803.6	9423.7	9814.6	9824.7	9502.1	8481.0	7242.9
17.5°	8026.8	8045.8	8074.0	8201.6	8509.1	9145.3	9887.0	9941.2	9976.4	8927.2	7423.8
20°	8087.1	8105.1	8113.2	8194.6	8446.8	8976.5	9836.7	9934.2	10340.2	9347.3	7604.7
22.5°	8357.4	8368.4	8373.5	8394.6	8590.5	9024.7	9803.6	9906.1	10603.5	9724.2	7741.3
25°	8805.6	8797.6	8765.4	8738.3	8869.9	9215.6	9879.9	9977.4	10817.6	10065.9	7830.8
27.5°	9342.3	9332.2	9269.9	9195.5	9270.9	9513.1	10100.0	10177.4	11009.5	10385.4	7876.0
30°	9986.5	9960.3	9842.7	9754.3	9783.5	9959.3	10462.8	10533.2	11306.0	10748.2	7920.2
32.5°	10731.1	10703.0	10533.2	10386.4	10386.4	10533.2	10836.7	10895.0	11557.2	11158.3	7991.6
35°	11663.8	11628.6	11407.5	11161.3	11091.9	11166.3	11346.2	11387.4	12009.5	11674.8	8121.2
37.5°	12763.2	12716.0	12429.6	12099.9	11948.2	11944.2	12073.8	12158.2	12732.1	12353.2	8341.3
40°	13865.7	13832.5	13582.3	13323.0	13025.5	12930.0	13130.0	13156.2	13676.7	13195.4	8622.7
42.5°	14717.9	14711.9	14665.6	14699.8	14395.3	14202.3	14359.1	14380.2	14830.5	14106.9	8922.2
45°	15168.1	15178.2	15402.3	15898.7	16011.3	15870.6	15948.0	15954.0	16149.0	15026.4	9196.5
47.5°	14807.3	14859.6	15426.4	16536.9	17458.5	17925.8	17797.1	17871.5	17427.3	15816.3	9411.6
50°	13401.4	13465.7	14430.5	16252.5	18133.8	19914.6	19847.3	19830.2	18458.4	16395.2	9528.2
52.5°	11659.7	11710.0	12505.9	14774.2	17638.4	21014.1	21632.1	21543.7	19375.0	16828.3	9550.3
55°	9007.6	9086.0	9848.8	11823.6	15634.4	20594.0	22944.6	22865.2	20210.1	17055.5	9524.2
57°	6403.7	6486.1	7243.9	9023.7	13152.1	19139.8	23075.3	23159.7	20661.3	17093.7	9553.3
57.5°	5714.3	5798.7	6549.4	8278.0	12378.3	18614.2	22962.7	23103.4	20742.7	17087.6	9569.4
60°	2877.3	2909.4	3387.8	4620.9	7824.8	15048.5	21494.5	21857.3	20816.1	16792.2	9638.7
62.5°	1788.9	1765.7	1750.7	2128.5	3806.9	9979.4	18464.4	19162.9	19412.1	16076.6	9470.9
65°	1572.8	1529.6	1363.8	1333.6	1681.3	4847.0	13904.9	14774.2	16412.3	14949.0	9070.9
67.5°	1477.3	1435.1	1248.2	1135.6	1136.6	1921.5	8632.8	9611.6	12785.3	13042.6	8127.3
70°	1378.8	1340.6	1165.8	1033.1	967.8	1064.3	3971.7	4714.3	8334.3	10251.8	6792.6
72.5°	1252.2	1226.1	1060.3	923.6	854.2	796.9	1520.5	1795.9	4824.9	6885.1	4717.4
75°	1119.5	1095.4	953.7	823.1	738.7	627.1	856.2	922.6	2451.1	3522.4	2322.5
77.5°	973.8	959.8	848.2	727.6	660.3	519.6	606.0	638.2	1051.2	1510.5	1164.8
80°	774.8	802.0	741.7	648.2	585.9	416.1	429.1	450.2	612.0	737.7	661.3
82.5°	504.5	551.7	580.9	526.6	482.4	327.6	308.5	317.6	399.0	450.2	287.4
85°	210.0	236.2	381.9	344.7	320.6	239.2	207.0	211.0	247.2	256.3	117.6
87.5°	93.5	99.5	167.8	157.8	135.7	82.4	88.4	96.5	131.7	124.6	45.2
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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 CATALOG NUMBER: GAN-SA4D-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1	6486.1
2.5°	6492.2	6407.7	6263.0	6103.2	5972.6	5868.1	5762.5	5690.2	5605.8	5560.5	5537.4
5°	6497.2	6331.4	6026.8	5714.3	5434.9	5179.7	4936.4	4749.5	4574.7	4480.2	4454.1
7.5°	6518.3	6269.0	5776.6	5262.1	4765.6	4312.4	3962.6	3743.5	3585.8	3515.4	3495.3
10°	6535.4	6195.7	5467.1	4705.3	4030.0	3570.7	3299.3	3176.7	3122.5	3113.4	3104.4
12.5°	6575.6	6120.3	5141.5	4124.4	3458.1	3140.6	3046.1	3038.0	3053.1	3075.2	3075.2
15°	6638.9	6045.9	4769.6	3626.0	3094.3	2982.8	3001.9	3046.1	3087.3	3121.5	3126.5
17.5°	6685.1	5954.5	4369.6	3227.0	2900.4	2930.5	2998.9	3061.2	3103.4	3136.5	3139.5
20°	6718.3	5812.8	3942.5	2922.5	2788.8	2882.3	2967.7	3023.0	3052.1	3085.3	3090.3
22.5°	6701.2	5622.8	3563.6	2704.4	2698.4	2811.9	2893.3	2959.7	2937.5	2905.4	2926.5
25°	6618.8	5361.6	3173.7	2541.6	2602.9	2717.5	2818.0	2773.7	2699.4	2685.3	2693.3
27.5°	6472.1	5027.9	2812.9	2390.8	2492.3	2630.0	2624.0	2579.8	2553.6	2535.6	2546.6
30°	6314.3	4666.1	2497.4	2259.2	2369.7	2483.3	2460.2	2459.2	2433.1	2403.9	2418.0
32.5°	6158.5	4302.3	2247.1	2150.7	2277.3	2292.4	2342.6	2357.7	2306.4	2245.1	2241.1
35°	6022.8	3958.6	2057.2	2052.2	2165.7	2167.7	2241.1	2220.0	2092.4	2029.0	2029.0
37.5°	5921.3	3615.9	1912.5	1963.7	2019.0	2071.3	2108.4	2021.0	1999.9	1964.7	1963.7
40°	5877.1	3314.4	1822.0	1896.4	1915.5	1981.8	1886.3	1920.5	1930.6	1912.5	1912.5
42.5°	5830.9	3052.1	1743.6	1845.1	1842.1	1833.1	1784.8	1829.1	1869.3	1870.3	1867.2
45°	5784.6	2826.0	1674.3	1735.6	1777.8	1680.3	1689.4	1736.6	1792.9	1813.0	1813.0
47.5°	5733.4	2647.1	1611.0	1620.0	1685.3	1620.0	1613.0	1649.2	1715.5	1747.7	1754.7
50°	5620.8	2486.3	1538.6	1518.5	1536.6	1558.7	1564.7	1581.8	1655.2	1706.5	1718.5
52.5°	5465.1	2342.6	1446.2	1425.1	1425.1	1508.5	1536.6	1541.6	1603.9	1665.2	1677.3
55°	5335.4	2251.1	1350.7	1346.7	1342.6	1455.2	1503.4	1511.5	1554.7	1602.9	1609.0
57°	5344.5	2244.1	1277.3	1281.3	1280.3	1400.9	1472.3	1489.4	1511.5	1552.7	1559.7
57.5°	5349.5	2249.1	1261.2	1263.3	1262.3	1385.9	1463.2	1482.3	1499.4	1542.6	1549.7
60°	5424.9	2262.2	1195.9	1173.8	1178.8	1305.5	1412.0	1436.1	1447.2	1504.5	1513.5
62.5°	5313.3	2203.9	1143.7	1090.4	1090.4	1221.0	1340.6	1378.8	1395.9	1473.3	1488.4
65°	4989.7	2040.1	1082.4	995.9	1006.0	1136.6	1255.2	1317.5	1343.7	1440.1	1456.2
67.5°	4490.2	1850.2	1017.0	911.5	921.6	1048.2	1166.8	1234.1	1275.3	1404.0	1417.0
70°	3840.0	1618.0	928.6	822.1	834.1	951.7	1062.3	1138.6	1199.9	1369.8	1373.8
72.5°	2831.0	1326.6	805.0	723.6	736.6	839.2	956.7	1045.2	1127.6	1284.4	1282.4
75°	1683.3	1037.1	668.3	624.1	633.1	728.6	861.3	968.8	1092.4	1251.2	1270.3
77.5°	1021.1	780.9	544.7	522.6	533.6	631.1	792.9	907.5	1077.3	1179.8	1173.8
80°	617.1	557.8	435.2	421.1	432.1	539.7	733.6	861.3	941.7	1008.0	1008.0
82.5°	322.6	340.7	319.6	308.5	323.6	438.2	667.3	751.7	832.1	714.5	667.3
85°	131.7	177.9	194.0	193.0	202.0	303.5	575.9	643.2	536.7	509.5	521.6
87.5°	44.2	75.4	94.5	81.4	85.4	190.9	399.0	310.5	368.8	257.3	244.2
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)