

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: P319340

Luminaire Tested: **GAN-SA6D-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319340
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-SA6D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 41402 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

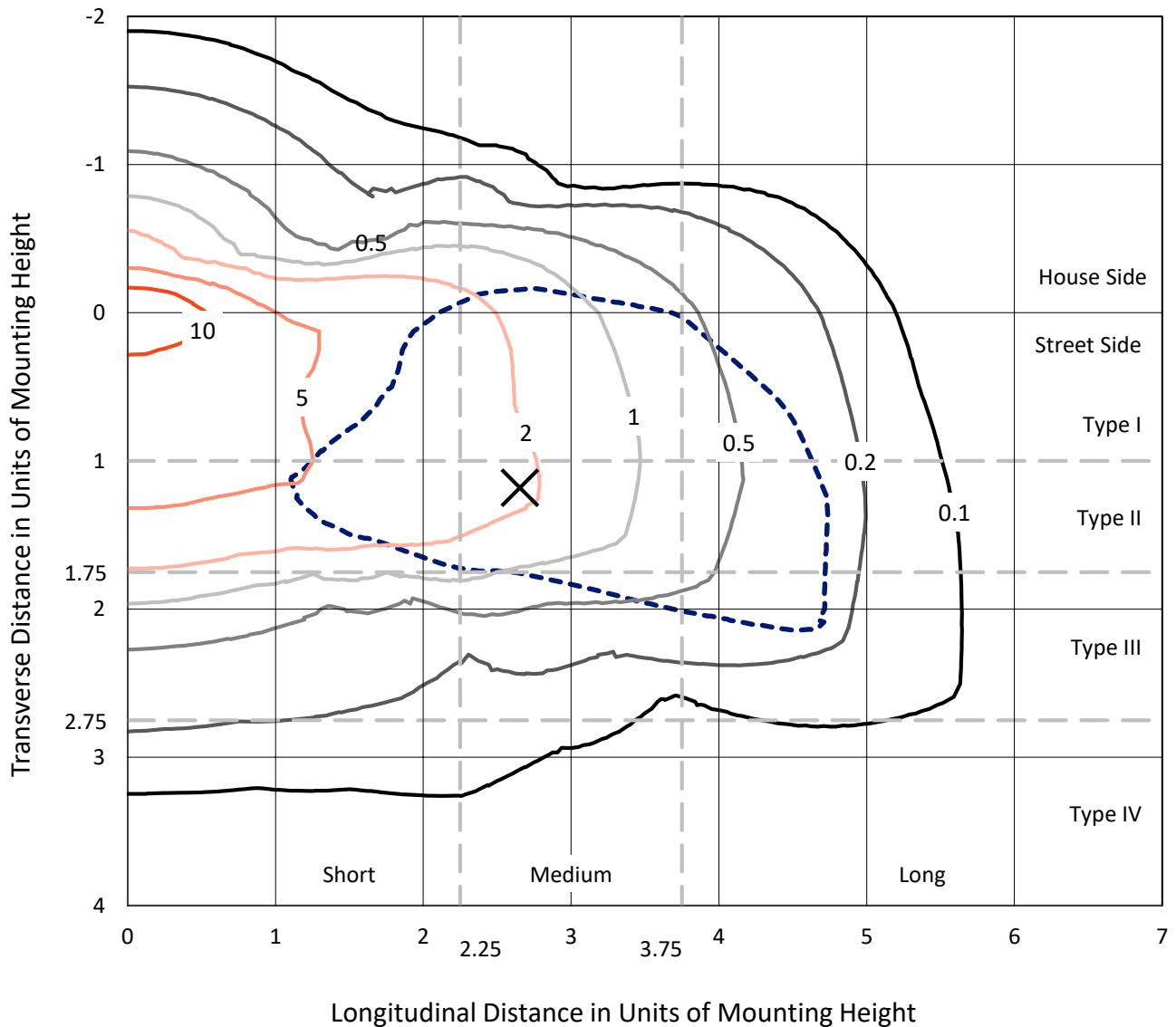
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

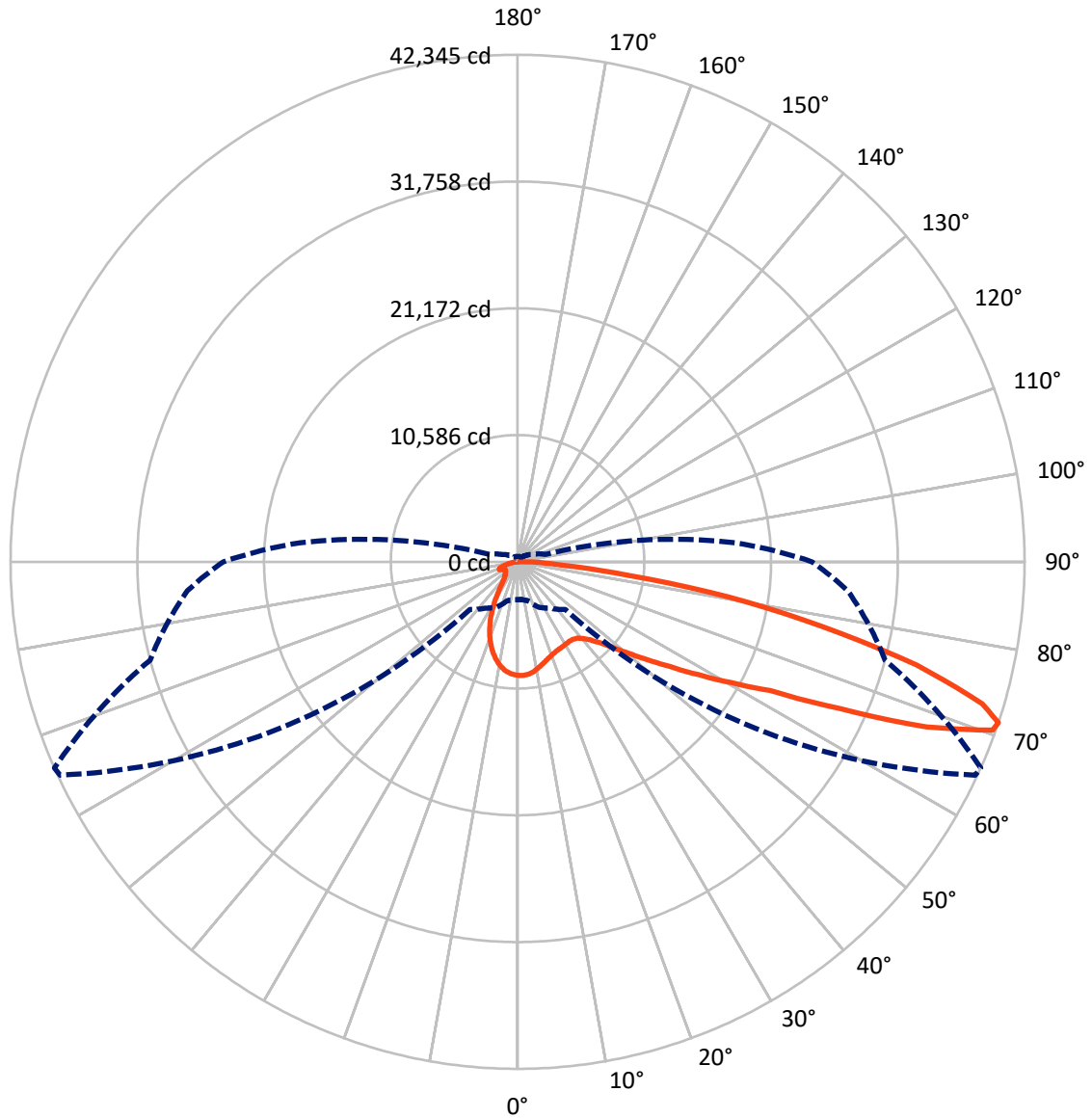
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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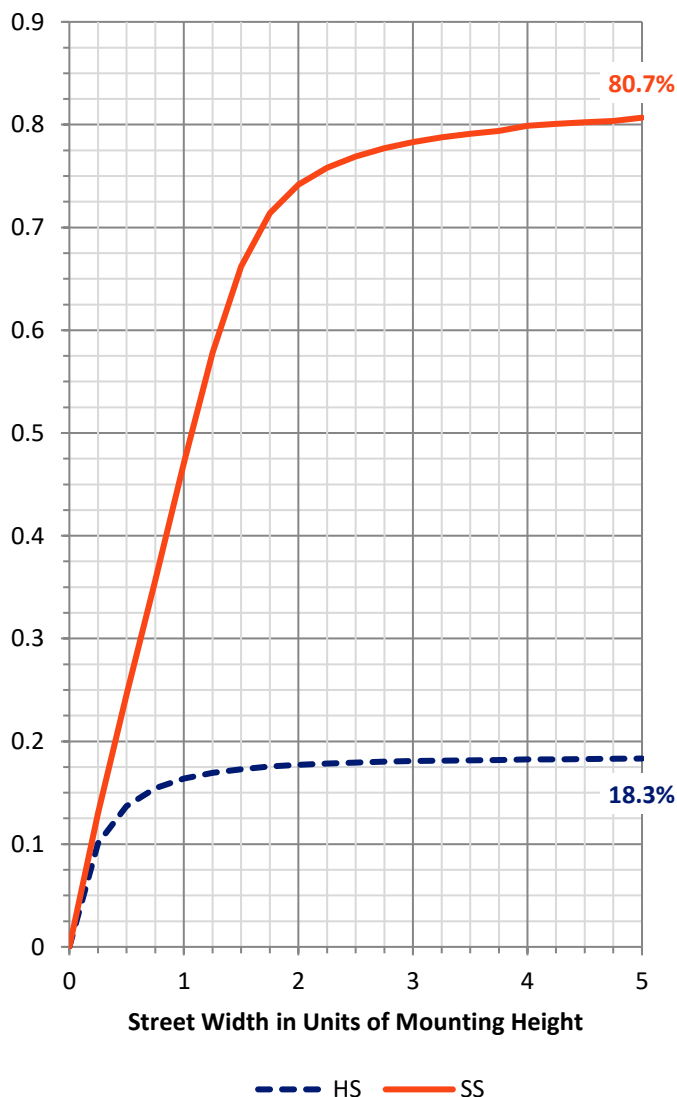
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7672.9	0.0	7672.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	33729.1	0.0	33729.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	41402.0	0.0	41402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.8	2.0
10°-20°	2002.3	4.8
20°-30°	2689.6	6.5
30°-40°	3538.2	8.5
40°-50°	5147.1	12.4
50°-60°	8040.4	19.4
60°-70°	10071.9	24.3
70°-80°	7682.6	18.6
80°-90°	1395.1	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°	41402.0	100.0
0°-180°	41402.0	100.0

Coefficient of Utilization

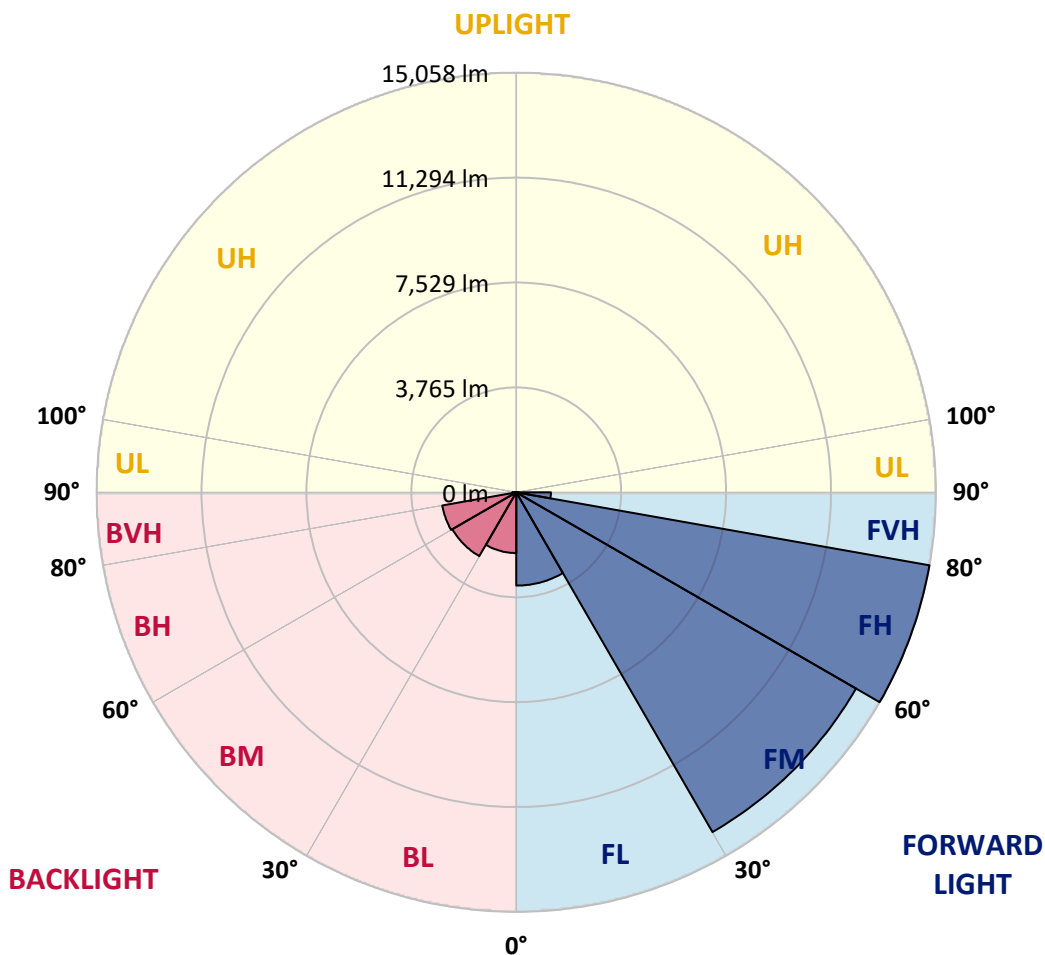


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3347.9	8.1			
FM (30°-60°)	14078.8	34.0			
FH (60°-80°)	15058.3	36.4			G5
FVH (80°-90°)	1244.1	3.0			G5
BL (0°-30°)	2178.9	5.3	B3/2500		
BM (30°-60°)	2646.9	6.4	B3/5000		
BH (60°-80°)	2696.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	151.0	0.4			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°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9308.6	9294.3	9337.2	9381.5	9398.6	9427.2	9470.1	9494.4	9493.0	9497.3	9483.0
5°	8691.1	8672.5	8758.2	8828.3	8962.6	9114.2	9298.6	9430.1	9432.9	9507.3	9527.3
7.5°	8106.4	8093.5	8192.2	8305.1	8460.9	8692.5	8991.2	9274.3	9291.4	9493.0	9563.0
10°	7637.5	7634.7	7730.5	7853.4	8034.9	8293.7	8636.7	9051.3	9077.0	9424.4	9568.7
12.5°	7271.6	7277.3	7360.2	7500.3	7691.9	7962.0	8333.7	8801.1	8842.6	9315.7	9535.9
15°	7001.4	7024.3	7091.5	7233.0	7421.7	7696.2	8077.8	8569.5	8632.4	9194.2	9517.3
17.5°	6847.1	6872.8	6920.0	7037.2	7214.4	7478.9	7840.5	8379.4	8436.6	9101.3	9518.7
20°	6801.3	6822.8	6849.9	6921.4	7071.5	7311.6	7653.3	8207.9	8269.4	9027.0	9533.0
22.5°	6891.4	6907.1	6910.0	6904.2	6995.7	7191.6	7517.5	8082.1	8147.9	8978.4	9543.0
25°	7084.4	7105.8	7090.1	7037.2	7007.2	7127.2	7447.4	7999.2	8065.0	8942.6	9523.0
27.5°	7374.5	7377.4	7364.5	7295.9	7154.4	7134.4	7426.0	7950.6	8013.5	8901.2	9481.5
30°	7769.1	7787.6	7764.8	7671.9	7440.3	7248.7	7451.7	7903.4	7960.6	8848.3	9414.4
32.5°	8230.8	8276.5	8275.1	8177.9	7846.2	7504.6	7557.5	7874.8	7919.1	8792.5	9332.9
35°	8709.6	8772.5	8889.7	8848.3	8438.0	7909.1	7760.5	7920.6	7950.6	8785.4	9275.7
37.5°	9207.1	9270.0	9511.6	9623.1	9142.8	8488.1	8080.7	8082.1	8096.4	8872.6	9271.4
40°	9727.4	9794.6	10157.7	10447.8	10056.2	9221.4	8596.7	8419.5	8403.7	9087.0	9355.7
42.5°	10456.4	10516.5	10952.4	11322.7	11069.7	10160.5	9310.0	8939.8	8906.9	9507.3	9625.9
45°	11378.4	11429.9	11893.0	12289.0	12158.9	11232.6	10206.3	9655.9	9650.2	10207.7	10173.4
47.5°	12474.8	12514.8	12930.8	13313.9	13361.1	12466.2	11332.7	10760.9	10668.0	11168.3	11021.1
50°	13616.9	13661.2	13944.3	14356.0	14706.2	14117.2	12782.1	12114.6	11990.2	12436.2	12221.8
52.5°	14373.1	14431.7	14677.6	15199.3	16218.5	15926.9	14496.0	13755.6	13566.9	13972.9	13808.5
55°	14035.8	14167.3	14543.2	15379.4	17427.8	18691.5	16610.2	15669.6	15456.6	15794.0	15696.8
57.5°	12502.0	12682.1	13195.2	14486.0	17598.0	21127.3	19806.5	17923.9	17773.8	17676.6	17720.9
60°	9698.8	9871.8	10507.9	12190.3	16412.9	22905.5	24616.5	20702.7	20485.4	19566.3	19606.3
62.5°	6864.2	6777.0	7213.0	8443.8	13336.8	23114.2	30089.9	24419.3	23704.6	21561.8	21386.0
65°	5234.6	5214.6	5410.5	5802.1	8077.8	20616.9	33350.5	30666.0	29549.6	23909.0	23494.4
67.5°	4301.2	4265.5	4458.5	5028.8	5201.8	13301.0	33422.0	37913.3	36816.9	26830.8	25933.1
70°	3536.5	3496.4	3676.5	4412.7	4807.2	6745.6	28128.7	42157.3	42098.7	30530.2	27774.2
71°	3170.5	3141.9	3357.8	4175.4	4722.9	5622.0	24286.3	42168.8	42344.6	31782.4	27665.6
72.5°	2581.6	2591.6	2820.3	3716.6	4660.0	4964.5	17849.5	40203.3	40574.9	32976.0	26677.8
75°	1715.3	1723.9	2024.1	2858.9	4518.5	4857.3	9810.3	33735.0	34418.3	32261.2	24343.5
77.5°	1152.1	1149.3	1353.7	1961.2	3936.7	4857.3	5752.1	25231.2	25981.7	25670.1	18767.2
80°	793.3	787.6	932.0	1353.7	2980.4	4915.9	4447.0	17682.3	17909.6	13862.8	7627.5
82.5°	486.0	490.3	608.9	956.3	2028.4	4424.1	4198.3	9641.6	9394.3	3888.1	1905.5
85°	278.7	277.3	388.8	647.5	1302.2	3733.7	4093.9	4149.7	3806.6	1170.7	689.0
87.5°	100.1	107.2	208.7	358.8	746.2	2600.2	3473.6	2158.5	1945.5	528.9	311.6
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°	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4	9484.4
2.5°	9473.0	9481.5	9471.5	9414.4	9365.8	9287.1	9242.8	9181.4	9162.8	9154.2	9177.1
5°	9508.7	9511.6	9427.2	9277.1	9108.5	8909.8	8766.8	8591.0	8508.1	8472.3	8495.2
7.5°	9541.6	9528.7	9344.3	9057.0	8745.4	8399.4	8092.1	7810.5	7646.1	7578.9	7584.7
10°	9545.9	9491.5	9195.6	8751.1	8267.9	7760.5	7288.8	6854.2	6579.8	6401.1	6455.4
12.5°	9501.6	9410.1	8976.9	8355.1	7684.7	6992.9	6355.3	5703.5	5311.8	5130.3	5136.0
15°	9467.2	9301.4	8708.2	7889.1	6988.6	6072.3	5201.8	4435.6	4018.2	3832.4	3745.2
17.5°	9438.7	9184.2	8396.6	7364.5	6166.6	5004.5	3958.1	3274.9	3046.2	2991.8	2969.0
20°	9398.6	9059.9	8049.2	6757.0	5230.4	3809.5	2890.3	2553.0	2554.4	2617.3	2625.9
22.5°	9342.9	8918.3	7679.0	6075.2	4225.5	2774.6	2265.7	2168.5	2267.1	2387.2	2408.6
25°	9260.0	8751.1	7267.3	5321.8	3222.0	2132.7	1935.5	1931.2	2051.3	2177.1	2195.6
27.5°	9142.8	8532.4	6809.9	4512.8	2374.3	1812.5	1733.9	1763.9	1852.6	1944.1	1951.2
30°	8985.5	8277.9	6305.3	3659.4	1861.1	1613.8	1605.3	1632.4	1686.8	1751.1	1756.8
32.5°	8812.6	8019.2	5766.4	2833.2	1593.8	1506.6	1515.2	1528.1	1553.8	1579.5	1585.3
35°	8655.3	7754.8	5214.6	2152.8	1466.6	1436.6	1430.9	1428.0	1430.9	1422.3	1423.7
37.5°	8553.8	7536.1	4640.0	1713.9	1393.7	1375.1	1358.0	1336.5	1312.2	1297.9	1300.8
40°	8516.7	7373.1	4058.2	1480.9	1333.7	1320.8	1287.9	1242.2	1213.6	1205.0	1205.0
42.5°	8616.7	7288.8	3496.4	1363.7	1283.6	1262.2	1207.9	1155.0	1133.6	1132.1	1130.7
45°	8922.6	7323.1	2961.8	1299.4	1237.9	1196.4	1125.0	1080.7	1066.4	1069.2	1067.8
47.5°	9471.5	7538.9	2504.4	1256.5	1192.2	1137.8	1057.8	1022.1	1004.9	1004.9	1006.3
50°	10405.0	8043.5	2139.9	1220.7	1153.6	1083.5	1009.2	964.9	942.0	940.6	940.6
52.5°	11764.4	8946.9	1912.6	1190.7	1110.7	1034.9	960.6	904.8	877.7	872.0	869.1
55°	13468.3	10242.0	1849.7	1170.7	1053.5	982.0	902.0	846.2	816.2	803.4	801.9
57.5°	15373.7	11817.3	1974.1	1146.4	994.9	919.1	837.7	784.8	753.3	737.6	736.2
60°	17302.1	13536.9	2481.5	1112.1	946.3	850.5	771.9	723.3	691.9	674.7	671.8
62.5°	19233.2	15349.4	3517.9	1109.3	912.0	784.8	704.7	663.3	633.2	614.7	610.4
65°	21411.7	17333.5	4695.7	1185.0	900.6	724.7	636.1	603.2	577.5	560.3	558.9
67.5°	23913.3	19573.5	4582.8	1340.8	939.1	670.4	571.8	546.0	527.5	513.2	511.7
70°	25086.8	19223.2	2848.9	1450.9	993.5	617.5	510.3	491.7	477.4	467.4	463.1
71°	24595.1	18252.6	2388.6	1438.0	987.7	594.7	486.0	471.7	457.4	448.8	444.6
72.5°	23254.3	16645.9	1992.7	1338.0	923.4	553.2	454.6	440.3	427.4	417.4	414.5
75°	20867.1	14866.3	1595.3	1069.2	736.2	467.4	398.8	383.1	373.1	367.4	361.7
77.5°	15339.4	10609.4	1233.6	844.8	541.8	381.7	340.2	328.8	318.8	310.2	305.9
80°	5876.5	4109.7	830.5	630.4	397.4	301.6	274.5	268.7	258.7	253.0	253.0
82.5°	1582.4	1227.9	443.1	381.7	265.9	220.1	210.1	207.3	198.7	187.3	188.7
85°	640.4	541.8	248.7	210.1	163.0	130.1	141.5	142.9	132.9	118.6	120.1
87.5°	281.6	230.1	138.7	92.9	71.5	50.0	64.3	64.3	58.6	48.6	44.3
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)