

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: P319313

Luminaire Tested: **GAN-SA9A-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319313
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-SA9A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 37168 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

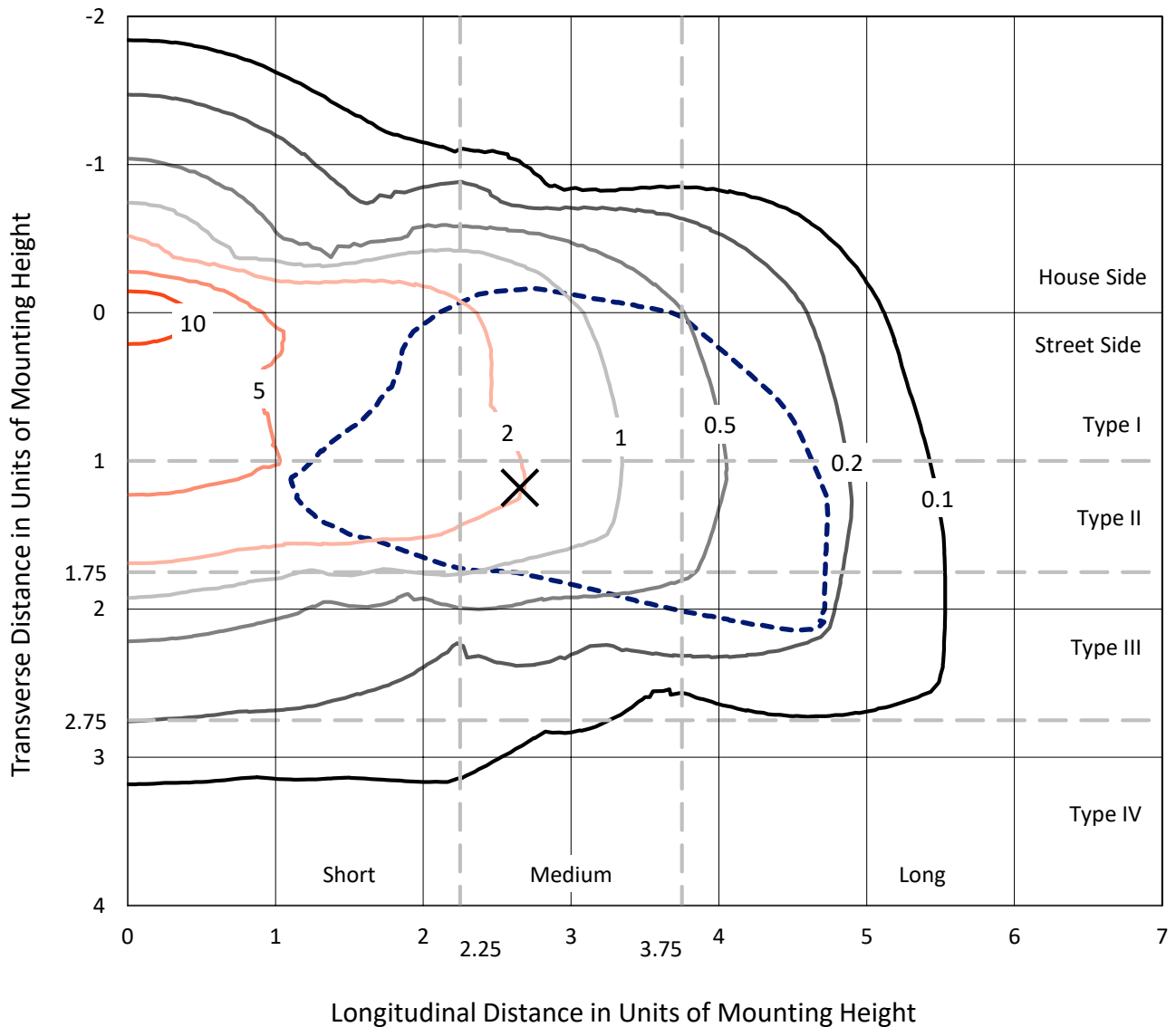
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319313
 CATALOG NUMBER: GAN-SA9A-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

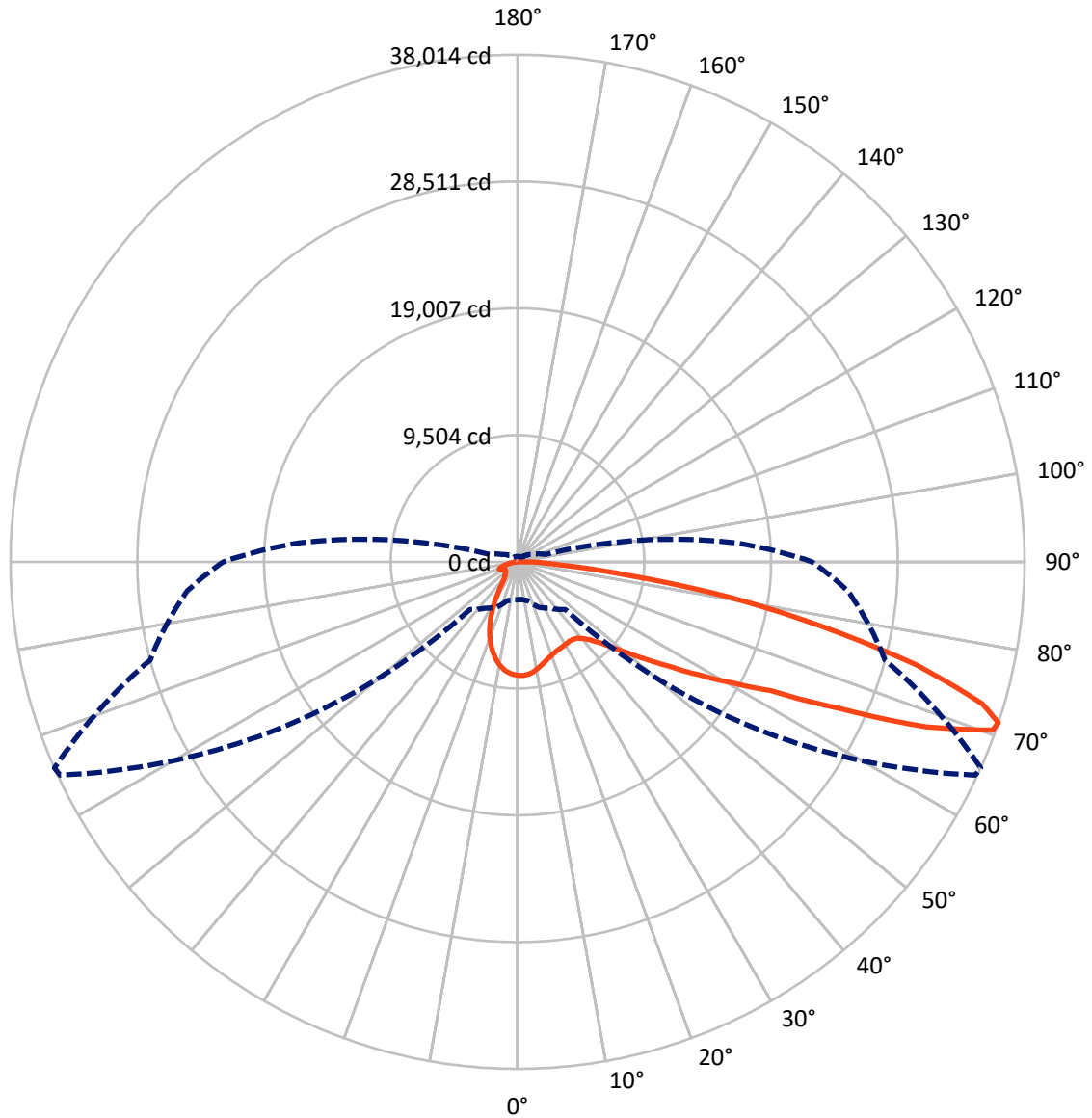
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P319313
CATALOG NUMBER: GAN-SA9A-730-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P319313
 CATALOG NUMBER: GAN-SA9A-730-U-SL2

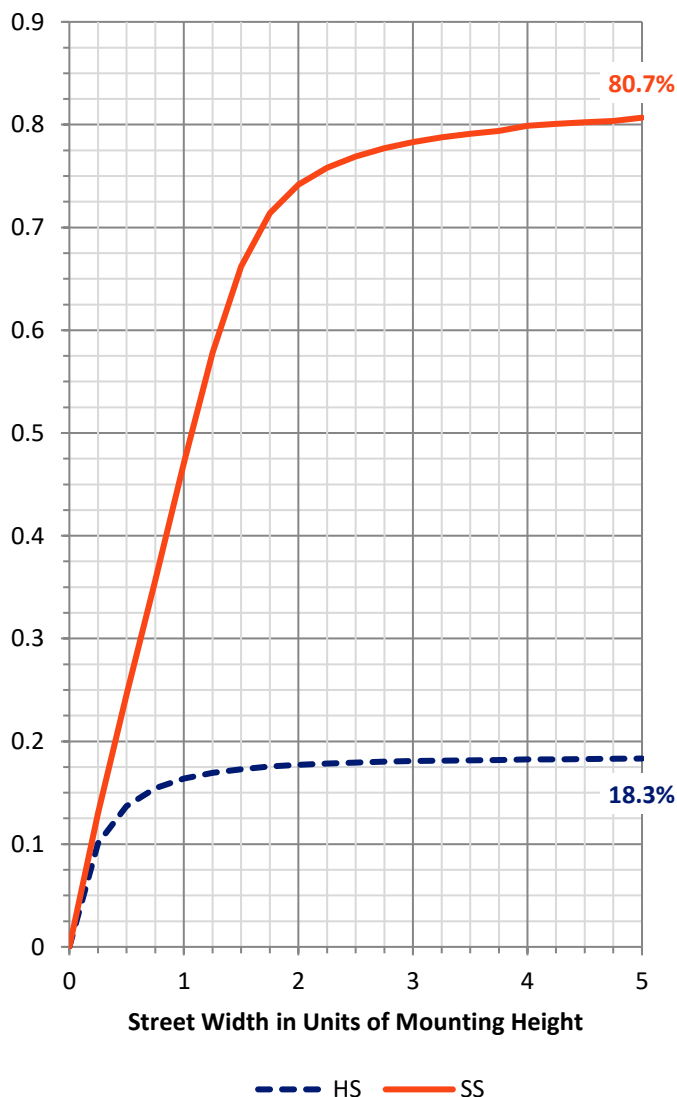
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6888.2	0.0	6888.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	30279.8	0.0	30279.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	37168.0	0.0	37168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.5	2.0
10°-20°	1797.6	4.8
20°-30°	2414.6	6.5
30°-40°	3176.3	8.5
40°-50°	4620.7	12.4
50°-60°	7218.1	19.4
60°-70°	9041.8	24.3
70°-80°	6896.9	18.6
80°-90°	1252.4	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°	37168.0	100.0
0°-180°	37168.0	100.0

Coefficient of Utilization

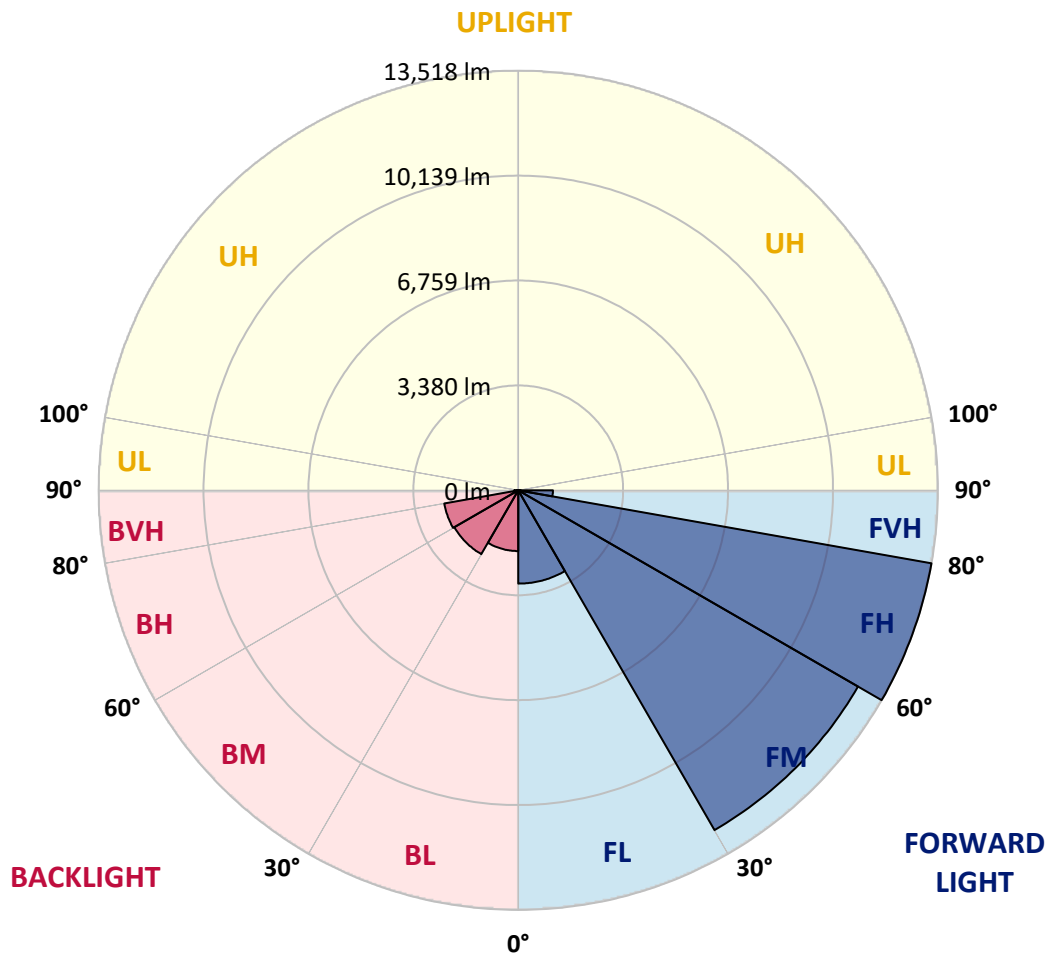


REPORT NUMBER: P319313
 CATALOG NUMBER: GAN-SA9A-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3005.5	8.1			
FM (30°-60°)	12639.0	34.0			
FH (60°-80°)	13518.4	36.4			G5
FVH (80°-90°)	1116.8	3.0			G5
BL (0°-30°)	1956.1	5.3	B3/2500		
BM (30°-60°)	2376.2	6.4	B2/2500		
BH (60°-80°)	2420.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	135.6	0.4			G2/225
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





REPORT NUMBER: P319313
 CATALOG NUMBER: GAN-SA9A-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5
2.5°	8356.6	8343.8	8382.3	8422.1	8437.5	8463.1	8501.6	8523.5	8522.2	8526.0	8513.2
5°	7802.3	7785.6	7862.6	7925.5	8046.1	8182.1	8347.6	8465.7	8468.3	8535.0	8553.0
7.5°	7277.4	7265.9	7354.4	7455.8	7595.7	7803.5	8071.7	8325.8	8341.2	8522.2	8585.0
10°	6856.5	6853.9	6939.9	7050.3	7213.2	7445.5	7753.5	8125.6	8148.7	8460.6	8590.2
12.5°	6528.0	6533.1	6607.5	6733.3	6905.3	7147.8	7481.4	7901.1	7938.3	8363.0	8560.7
15°	6285.4	6306.0	6366.3	6493.3	6662.7	6909.1	7251.7	7693.2	7749.6	8254.0	8544.0
17.5°	6146.8	6169.9	6212.3	6317.5	6476.6	6714.0	7038.7	7522.5	7573.8	8170.6	8545.3
20°	6105.8	6125.0	6149.4	6213.6	6348.3	6563.9	6870.6	7368.5	7423.7	8103.8	8558.1
22.5°	6186.6	6200.7	6203.3	6198.2	6280.3	6456.1	6748.7	7255.6	7314.6	8060.2	8567.1
25°	6359.9	6379.1	6365.0	6317.5	6290.6	6398.4	6685.8	7181.2	7240.2	8028.1	8549.1
27.5°	6620.4	6622.9	6611.4	6549.8	6422.7	6404.8	6666.6	7137.5	7194.0	7990.9	8511.9
30°	6974.6	6991.2	6970.7	6887.3	6679.4	6507.4	6689.7	7095.2	7146.5	7943.4	8451.6
32.5°	7389.0	7430.1	7428.8	7341.6	7043.8	6737.1	6784.6	7069.5	7109.3	7893.4	8378.4
35°	7818.9	7875.4	7980.6	7943.4	7575.1	7100.3	6966.9	7110.6	7137.5	7887.0	8327.1
37.5°	8265.5	8322.0	8538.9	8638.9	8207.8	7620.0	7254.3	7255.6	7268.4	7965.2	8323.3
40°	8732.6	8792.9	9118.9	9379.4	9027.8	8278.3	7717.6	7558.4	7544.3	8157.7	8399.0
42.5°	9387.1	9441.0	9832.4	10164.7	9937.6	9121.5	8357.9	8025.5	7996.0	8535.0	8641.5
45°	10214.8	10261.0	10676.8	11032.2	10915.5	10083.9	9162.5	8668.5	8663.3	9163.8	9133.0
47.5°	11199.1	11235.0	11608.4	11952.3	11994.7	11191.4	10173.7	9660.4	9577.0	10026.2	9894.0
50°	12224.4	12264.2	12518.3	12887.8	13202.2	12673.5	11475.0	10875.7	10764.0	11164.4	10971.9
52.5°	12903.2	12955.9	13176.6	13645.0	14559.9	14298.1	13013.6	12348.9	12179.5	12543.9	12396.3
55°	12600.4	12718.4	13055.9	13806.7	15645.6	16780.0	14911.5	14067.2	13876.0	14178.8	14091.5
57.5°	11223.4	11385.1	11845.8	13004.6	15798.3	18966.7	17780.9	16090.9	15956.1	15868.9	15908.6
60°	8707.0	8862.2	9433.3	10943.7	14734.5	20563.1	22099.1	18585.5	18390.5	17565.3	17601.3
62.5°	6162.2	6084.0	6475.4	7580.3	11972.9	20750.4	27012.7	21922.0	21280.4	19356.8	19198.9
65°	4699.3	4681.4	4857.2	5208.8	7251.7	18508.5	29939.9	27529.9	26527.7	21463.9	21091.8
67.5°	3861.3	3829.3	4002.5	4514.5	4669.8	11940.8	30004.0	34036.1	33051.8	24086.9	23281.0
70°	3174.8	3138.9	3300.6	3961.4	4315.6	6055.7	25252.1	37846.1	37793.5	27408.0	24933.9
71°	2846.3	2820.6	3014.4	3748.4	4239.9	5047.1	21802.7	37856.3	38014.2	28532.1	24836.3
72.5°	2317.6	2326.6	2531.9	3336.5	4183.4	4456.8	16024.1	36091.9	36425.5	29603.7	23949.6
75°	1539.9	1547.6	1817.1	2566.5	4056.4	4360.5	8807.1	30285.1	30898.5	28962.0	21854.0
77.5°	1034.3	1031.7	1215.3	1760.6	3534.1	4360.5	5163.9	22650.9	23324.6	23044.9	16848.0
80°	712.2	707.1	836.7	1215.3	2675.6	4413.2	3992.2	15874.0	16078.0	12445.1	6847.5
82.5°	436.3	440.2	546.7	858.5	1821.0	3971.7	3769.0	8655.6	8433.6	3490.5	1710.6
85°	250.2	249.0	349.0	581.3	1169.1	3351.9	3675.3	3725.3	3417.3	1051.0	618.5
87.5°	89.8	96.2	187.4	322.1	669.9	2334.3	3118.3	1937.7	1746.5	474.8	279.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319313
 CATALOG NUMBER: GAN-SA9A-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5	8514.5
2.5°	8504.2	8511.9	8502.9	8451.6	8408.0	8337.4	8297.6	8242.4	8225.7	8218.0	8238.6
5°	8536.3	8538.9	8463.1	8328.4	8177.0	7998.6	7870.3	7712.4	7638.0	7605.9	7626.4
7.5°	8565.8	8554.3	8388.7	8130.8	7851.0	7540.5	7264.6	7011.8	6864.2	6803.9	6809.0
10°	8569.6	8520.9	8255.2	7856.2	7422.4	6966.9	6543.4	6153.3	5906.9	5746.5	5795.2
12.5°	8529.9	8447.7	8058.9	7500.7	6898.8	6277.7	5705.4	5120.2	4768.6	4605.6	4610.8
15°	8499.1	8350.2	7817.7	7082.3	6273.9	5451.3	4669.8	3982.0	3607.3	3440.4	3362.2
17.5°	8473.4	8245.0	7537.9	6611.4	5536.0	4492.7	3553.4	2940.0	2734.6	2685.9	2665.3
20°	8437.5	8133.3	7226.1	6066.0	4695.5	3419.9	2594.8	2291.9	2293.2	2349.7	2357.4
22.5°	8387.4	8006.3	6893.7	5453.9	3793.3	2490.8	2034.0	1946.7	2035.3	2143.1	2162.3
25°	8313.0	7856.2	6524.1	4777.6	2892.5	1914.6	1737.5	1733.7	1841.5	1954.4	1971.1
27.5°	8207.8	7659.8	6113.5	4051.3	2131.5	1627.2	1556.6	1583.6	1663.1	1745.2	1751.7
30°	8066.6	7431.4	5660.5	3285.2	1670.8	1448.8	1441.1	1465.5	1514.3	1572.0	1577.1
32.5°	7911.3	7199.1	5176.7	2543.4	1430.8	1352.6	1360.3	1371.8	1394.9	1418.0	1423.1
35°	7770.2	6961.7	4681.4	1932.6	1316.6	1289.7	1284.5	1282.0	1284.5	1276.8	1278.1
37.5°	7679.1	6765.4	4165.5	1538.6	1251.2	1234.5	1219.1	1199.9	1178.0	1165.2	1167.8
40°	7645.7	6619.1	3643.2	1329.5	1197.3	1185.7	1156.2	1115.2	1089.5	1081.8	1081.8
42.5°	7735.5	6543.4	3138.9	1224.2	1152.4	1133.1	1084.4	1036.9	1017.6	1016.3	1015.1
45°	8010.1	6574.2	2658.9	1166.5	1111.3	1074.1	1009.9	970.1	957.3	959.9	958.6
47.5°	8502.9	6767.9	2248.3	1128.0	1070.2	1021.5	949.6	917.5	902.1	902.1	903.4
50°	9340.9	7220.9	1921.0	1095.9	1035.6	972.7	906.0	866.2	845.7	844.4	844.4
52.5°	10561.3	8032.0	1717.0	1069.0	997.1	929.1	862.4	812.3	787.9	782.8	780.2
55°	12090.9	9194.6	1660.5	1051.0	945.8	881.6	809.7	759.7	732.7	721.2	719.9
57.5°	13801.5	10608.8	1772.2	1029.2	893.2	825.1	752.0	704.5	676.3	662.2	660.9
60°	15532.7	12152.5	2227.7	998.4	849.5	763.5	693.0	649.3	621.1	605.7	603.1
62.5°	17266.3	13779.7	3158.1	995.8	818.7	704.5	632.7	595.4	568.5	551.8	548.0
65°	19222.0	15560.9	4215.5	1063.8	808.5	650.6	571.1	541.5	518.4	503.0	501.8
67.5°	21467.8	17571.8	4114.2	1203.7	843.1	601.9	513.3	490.2	473.5	460.7	459.4
70°	22521.3	17257.4	2557.5	1302.5	891.9	554.4	458.1	441.4	428.6	419.6	415.8
71°	22079.9	16386.0	2144.3	1291.0	886.7	533.8	436.3	423.5	410.6	402.9	399.1
72.5°	20876.2	14943.6	1788.9	1201.1	829.0	496.6	408.1	395.2	383.7	374.7	372.1
75°	18733.1	13346.0	1432.1	959.9	660.9	419.6	358.0	343.9	334.9	329.8	324.7
77.5°	13770.7	9524.4	1107.5	758.4	486.4	342.6	305.4	295.2	286.2	278.5	274.6
80°	5275.5	3689.4	745.6	565.9	356.7	270.8	246.4	241.3	232.3	227.1	227.1
82.5°	1420.6	1102.3	397.8	342.6	238.7	197.6	188.6	186.1	178.4	168.1	169.4
85°	574.9	486.4	223.3	188.6	146.3	116.8	127.0	128.3	119.3	106.5	107.8
87.5°	252.8	206.6	124.5	83.4	64.2	44.9	57.7	57.7	52.6	43.6	39.8
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)