

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: P319323

Luminaire Tested: **GAN-SA9B-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319323
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-SA9B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 45578 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

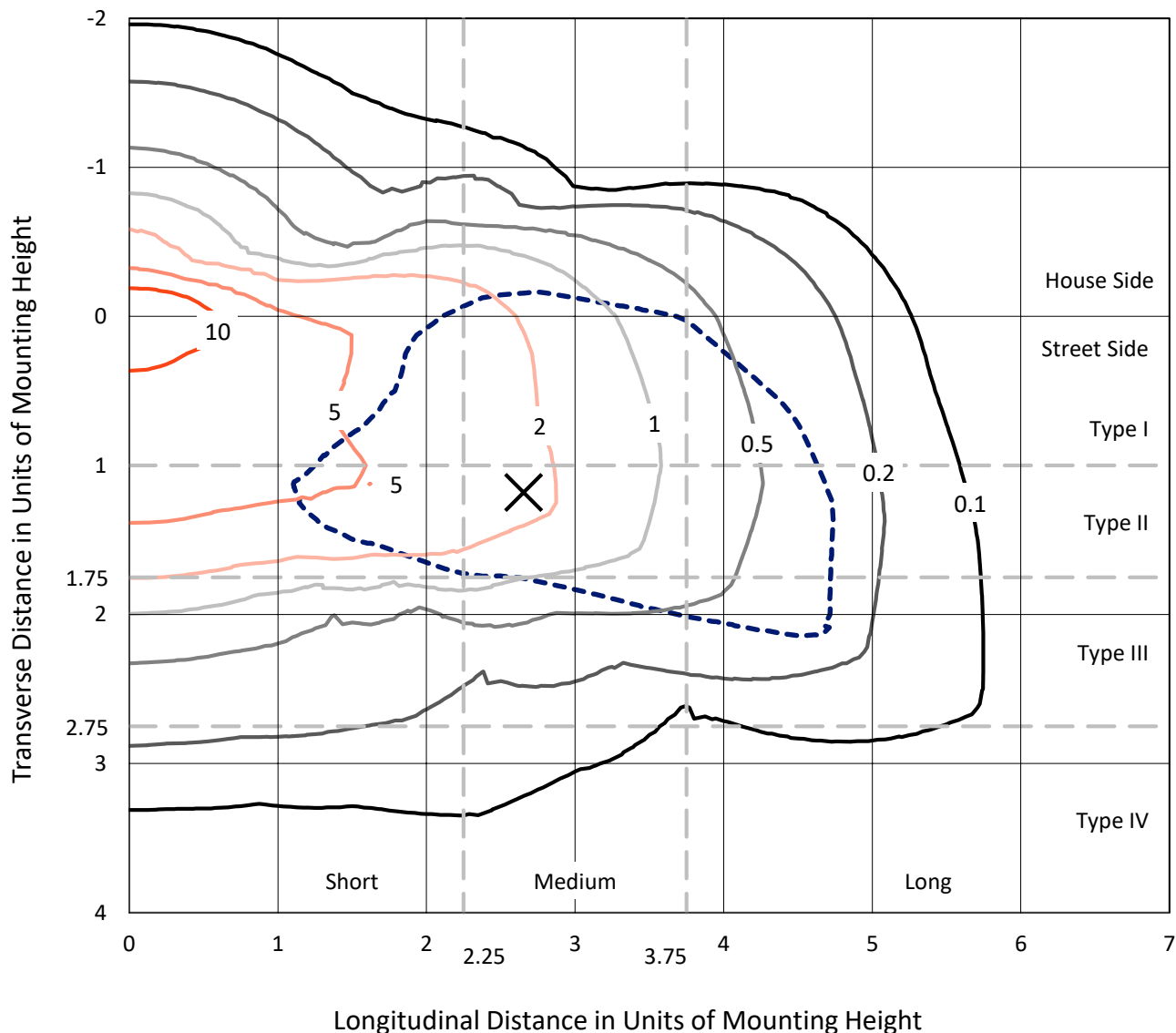
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

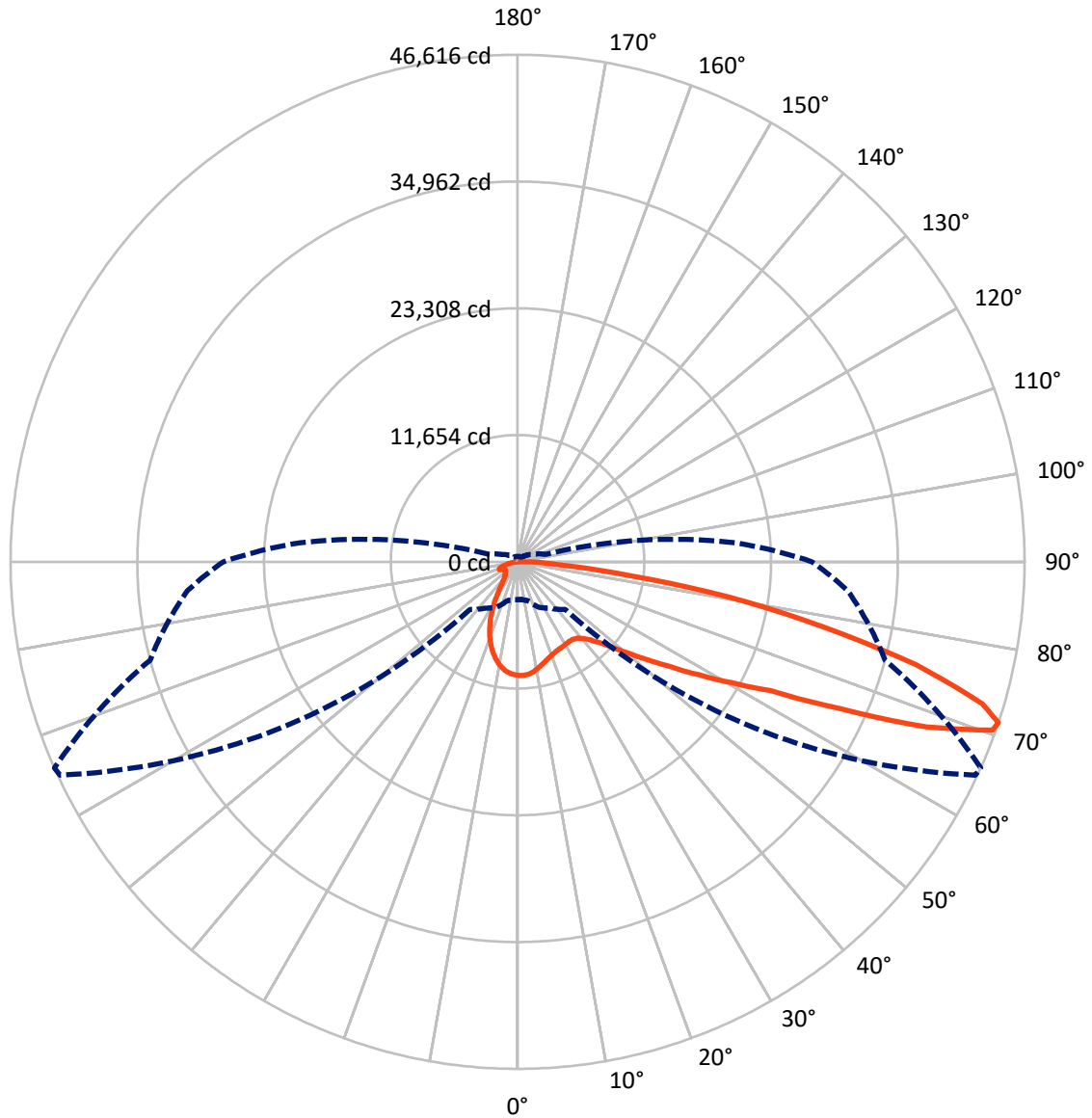
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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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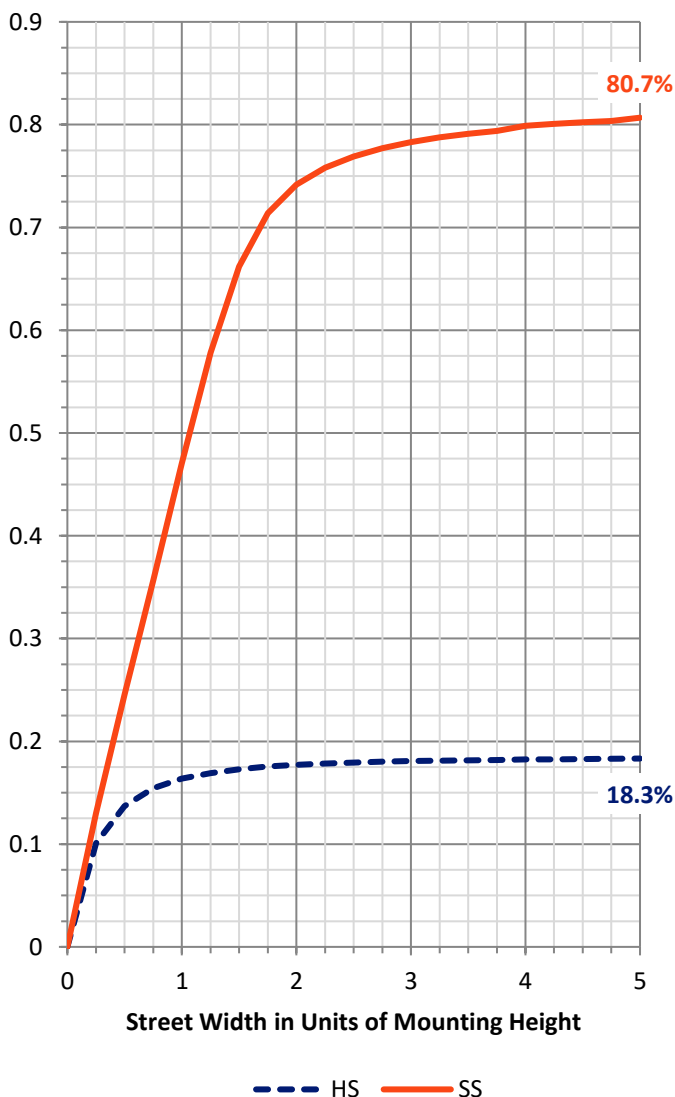
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8446.8	0.0	8446.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	37131.2	0.0	37131.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	45578.0	0.0	45578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.1	2.0
10°-20°	2204.3	4.8
20°-30°	2960.9	6.5
30°-40°	3895.1	8.5
40°-50°	5666.3	12.4
50°-60°	8851.3	19.4
60°-70°	11087.7	24.3
70°-80°	8457.5	18.6
80°-90°	1535.8	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°	45578.0	100.0
0°-180°	45578.0	100.0

Coefficient of Utilization

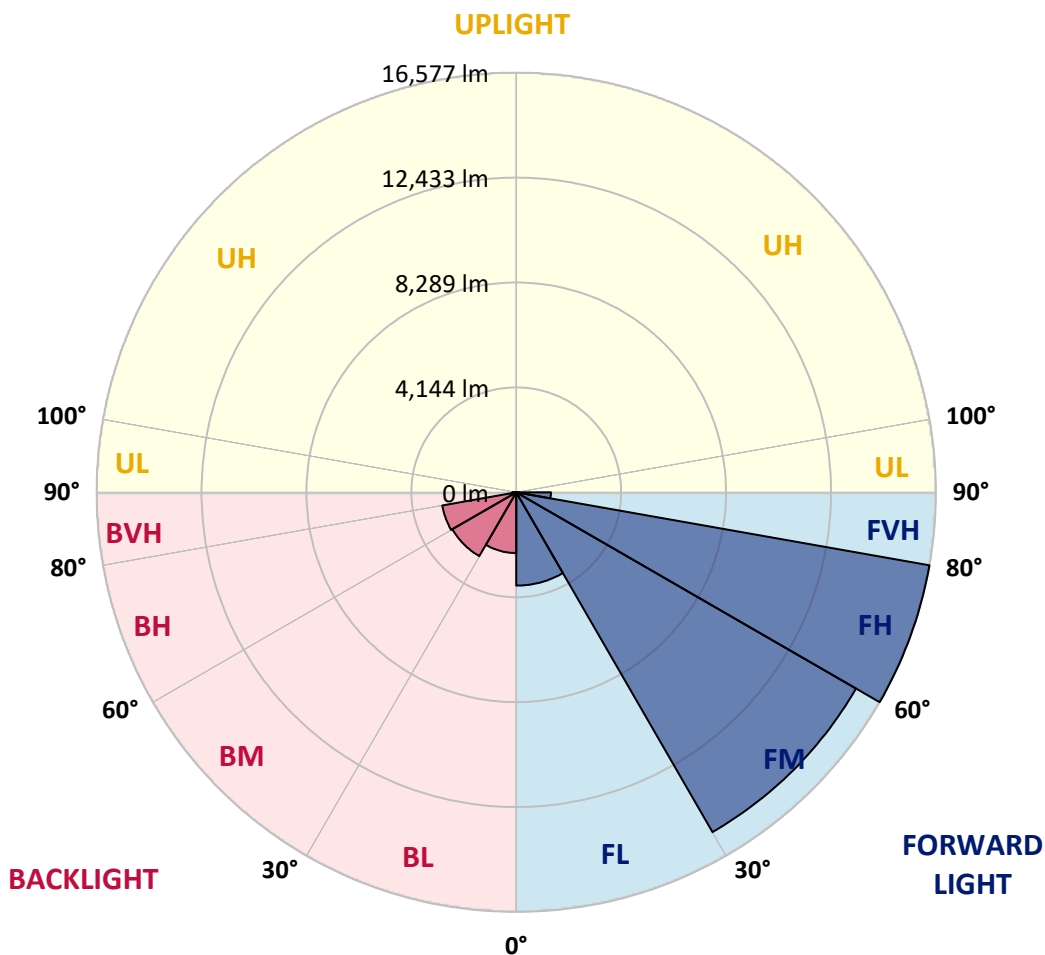


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3685.6	8.1			
FM (30°-60°)	15498.8	34.0			
FH (60°-80°)	16577.2	36.4			G5
FVH (80°-90°)	1369.5	3.0			G5
BL (0°-30°)	2398.7	5.3	B3/2500		
BM (30°-60°)	2913.9	6.4	B3/5000		
BH (60°-80°)	2968.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	166.2	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°	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0
2.5°	10247.5	10231.7	10279.0	10327.7	10346.6	10378.1	10425.3	10452.1	10450.5	10455.2	10439.5
5°	9567.7	9547.2	9641.6	9718.7	9866.7	10033.5	10236.5	10381.2	10384.4	10466.2	10488.2
7.5°	8924.1	8909.9	9018.5	9142.8	9314.3	9569.2	9898.1	10209.7	10228.6	10450.5	10527.6
10°	8407.9	8404.8	8510.2	8645.5	8845.4	9130.2	9507.9	9964.2	9992.6	10374.9	10533.9
12.5°	8005.1	8011.4	8102.6	8256.8	8467.7	8765.1	9174.3	9688.8	9734.5	10255.3	10497.7
15°	7707.6	7732.8	7806.8	7962.6	8170.3	8472.4	8892.6	9433.9	9503.2	10121.6	10477.2
17.5°	7537.7	7566.0	7617.9	7747.0	7942.1	8233.2	8631.4	9224.6	9287.6	10019.3	10478.8
20°	7487.3	7510.9	7540.8	7619.5	7784.7	8049.1	8425.2	9035.8	9103.5	9937.5	10494.5
22.5°	7586.5	7603.8	7606.9	7600.6	7701.3	7916.9	8275.7	8897.3	8969.7	9884.0	10505.6
25°	7798.9	7822.5	7805.2	7747.0	7713.9	7846.1	8198.6	8806.0	8878.4	9844.6	10483.5
27.5°	8118.4	8121.5	8107.3	8031.8	7876.0	7854.0	8175.0	8752.5	8821.8	9799.0	10437.9
30°	8552.7	8573.1	8548.0	8445.7	8190.7	7979.9	8203.3	8700.6	8763.5	9740.8	10363.9
32.5°	9061.0	9111.3	9109.7	9002.7	8637.7	8261.6	8319.8	8669.1	8717.9	9679.4	10274.2
35°	9588.1	9657.4	9786.4	9740.8	9289.1	8706.9	8543.2	8719.5	8752.5	9671.5	10211.3
37.5°	10135.8	10205.0	10470.9	10593.7	10064.9	9344.2	8895.7	8897.3	8913.0	9767.5	10206.6
40°	10708.6	10782.5	11182.2	11501.7	11070.5	10151.5	9463.8	9268.7	9251.4	10003.6	10299.4
42.5°	11511.1	11577.2	12057.2	12464.7	12186.2	11185.4	10249.1	9841.5	9805.3	10466.2	10596.8
45°	12526.1	12582.7	13092.6	13528.5	13385.3	12365.6	11235.7	10629.9	10623.6	11237.3	11199.5
47.5°	13733.1	13777.1	14235.1	14656.8	14708.7	13723.6	12475.7	11846.3	11744.0	12294.8	12132.7
50°	14990.4	15039.2	15350.8	15804.0	16189.5	15541.2	14071.4	13336.5	13199.6	13690.6	13454.5
52.5°	15822.9	15887.4	16158.0	16732.4	17854.4	17533.4	15958.2	15143.0	14935.3	15382.2	15201.3
55°	15451.5	15596.3	16010.1	16930.7	19185.7	20576.8	18285.6	17250.1	17015.7	17387.0	17280.0
57.5°	13763.0	13961.2	14526.2	15947.2	19373.0	23258.3	21804.2	19731.8	19566.5	19459.5	19508.3
60°	10677.1	10867.5	11567.8	13419.9	18068.4	25215.9	27099.5	22790.9	22551.7	21539.9	21583.9
62.5°	7556.6	7460.6	7940.5	9295.4	14682.0	25445.6	33124.9	26882.3	26095.5	23736.6	23543.1
65°	5762.6	5740.6	5956.2	6387.4	8892.6	22696.5	36714.4	33759.1	32530.1	26320.5	25864.2
67.5°	4735.1	4695.7	4908.2	5536.0	5726.4	14642.6	36793.1	41737.4	40530.4	29537.0	28548.8
70°	3893.2	3849.1	4047.4	4857.8	5292.1	7426.0	30965.9	46409.5	46345.0	33609.6	30575.6
71°	3490.3	3458.8	3696.5	4596.6	5199.3	6189.1	26736.0	46422.1	46615.7	34988.1	30456.0
72.5°	2842.0	2853.0	3104.8	4091.4	5130.0	5465.2	19649.9	44258.4	44667.5	36302.1	29368.7
75°	1888.4	1897.8	2228.3	3147.3	4974.2	5347.2	10799.8	37137.7	37889.9	35515.3	26798.9
77.5°	1268.3	1265.2	1490.2	2159.0	4333.8	5347.2	6332.3	27776.1	28602.3	28259.3	20660.2
80°	873.4	867.1	1026.0	1490.2	3281.0	5411.7	4895.6	19465.8	19716.0	15261.1	8396.9
82.5°	535.0	539.8	670.4	1052.8	2233.0	4870.4	4621.8	10614.1	10341.9	4280.3	2097.6
85°	306.9	305.3	428.0	712.9	1433.6	4110.3	4506.9	4568.2	4190.6	1288.8	758.5
87.5°	110.2	118.0	229.8	395.0	821.4	2862.4	3823.9	2376.2	2141.7	582.2	343.1
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°	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0	10441.0
2.5°	10428.4	10437.9	10426.9	10363.9	10310.4	10223.9	10175.1	10107.4	10087.0	10077.5	10102.7
5°	10467.8	10470.9	10378.1	10212.9	10027.2	9808.4	9651.1	9457.5	9366.2	9326.9	9352.1
7.5°	10504.0	10489.8	10286.8	9970.5	9627.5	9246.7	8908.3	8598.3	8417.3	8343.4	8349.7
10°	10508.7	10448.9	10123.2	9633.8	9101.9	8543.2	8023.9	7545.6	7243.4	7046.7	7106.5
12.5°	10459.9	10359.2	9882.4	9197.9	8459.8	7698.2	6996.4	6278.8	5847.6	5647.8	5654.1
15°	10422.2	10239.6	9586.6	8684.9	7693.5	6684.8	5726.4	4883.0	4423.5	4218.9	4122.9
17.5°	10390.7	10110.6	9243.5	8107.3	6788.6	5509.3	4357.4	3605.2	3353.4	3293.6	3268.4
20°	10346.6	9973.7	8861.1	7438.6	5757.9	4193.7	3181.9	2810.5	2812.1	2881.3	2890.8
22.5°	10285.2	9817.9	8453.5	6687.9	4651.7	3054.4	2494.2	2387.2	2495.8	2628.0	2651.6
25°	10194.0	9633.8	8000.3	5858.6	3547.0	2347.9	2130.7	2126.0	2258.2	2396.6	2417.1
27.5°	10064.9	9393.0	7496.8	4968.0	2613.8	1995.4	1908.8	1941.9	2039.4	2140.1	2148.0
30°	9891.8	9112.9	6941.3	4028.5	2048.9	1776.6	1767.2	1797.1	1856.9	1927.7	1934.0
32.5°	9701.4	8828.1	6348.0	3118.9	1754.6	1658.6	1668.0	1682.2	1710.5	1738.9	1745.2
35°	9528.3	8536.9	5740.6	2369.9	1614.5	1581.5	1575.2	1572.1	1575.2	1565.8	1567.3
37.5°	9416.6	8296.2	5108.0	1886.8	1534.3	1513.8	1494.9	1471.3	1444.6	1428.9	1432.0
40°	9375.7	8116.8	4467.5	1630.3	1468.2	1454.0	1417.8	1367.5	1336.0	1326.6	1326.6
42.5°	9485.8	8023.9	3849.1	1501.2	1413.1	1389.5	1329.7	1271.5	1247.9	1246.3	1244.7
45°	9822.6	8061.7	3260.6	1430.4	1362.8	1317.1	1238.4	1189.7	1173.9	1177.1	1175.5
47.5°	10426.9	8299.3	2757.0	1383.2	1312.4	1252.6	1164.5	1125.1	1106.3	1106.3	1107.8
50°	11454.5	8854.8	2355.7	1343.9	1269.9	1192.8	1111.0	1062.2	1037.0	1035.4	1035.4
52.5°	12951.0	9849.4	2105.5	1310.8	1222.7	1139.3	1057.5	996.1	966.2	959.9	956.8
55°	14826.7	11275.1	2036.3	1288.8	1159.8	1081.1	993.0	931.6	898.5	884.4	882.8
57.5°	16924.4	13009.2	2173.2	1262.1	1095.2	1011.8	922.1	863.9	829.3	812.0	810.4
60°	19047.2	14902.3	2731.8	1224.3	1041.7	936.3	849.8	796.3	761.6	742.8	739.6
62.5°	21173.2	16897.6	3872.7	1221.1	1004.0	863.9	775.8	730.2	697.1	676.7	671.9
65°	23571.4	19081.8	5169.4	1304.5	991.4	797.8	700.3	664.1	635.7	616.9	615.3
67.5°	26325.3	21547.7	5045.1	1476.1	1033.9	738.0	629.5	601.1	580.7	564.9	563.4
70°	27617.2	21162.2	3136.2	1597.2	1093.7	679.8	561.8	541.3	525.6	514.6	509.9
71°	27075.9	20093.7	2629.5	1583.1	1087.4	654.6	535.0	519.3	503.6	494.1	489.4
72.5°	25599.8	18324.9	2193.6	1472.9	1016.6	609.0	500.4	484.7	470.5	459.5	456.4
75°	22971.9	16365.8	1756.2	1177.1	810.4	514.6	439.0	421.7	410.7	404.4	398.1
77.5°	16886.6	11679.5	1358.0	930.0	596.4	420.2	374.5	361.9	350.9	341.5	336.8
80°	6469.2	4524.2	914.3	694.0	437.5	332.0	302.1	295.8	284.8	278.5	278.5
82.5°	1742.0	1351.7	487.8	420.2	292.7	242.3	231.3	228.2	218.7	206.1	207.7
85°	705.0	596.4	273.8	231.3	179.4	143.2	155.8	157.4	146.3	130.6	132.2
87.5°	310.0	253.4	152.6	102.3	78.7	55.1	70.8	70.8	64.5	53.5	48.8
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)