

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: P319954

Luminaire Tested: **GAN-SA0A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39915 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

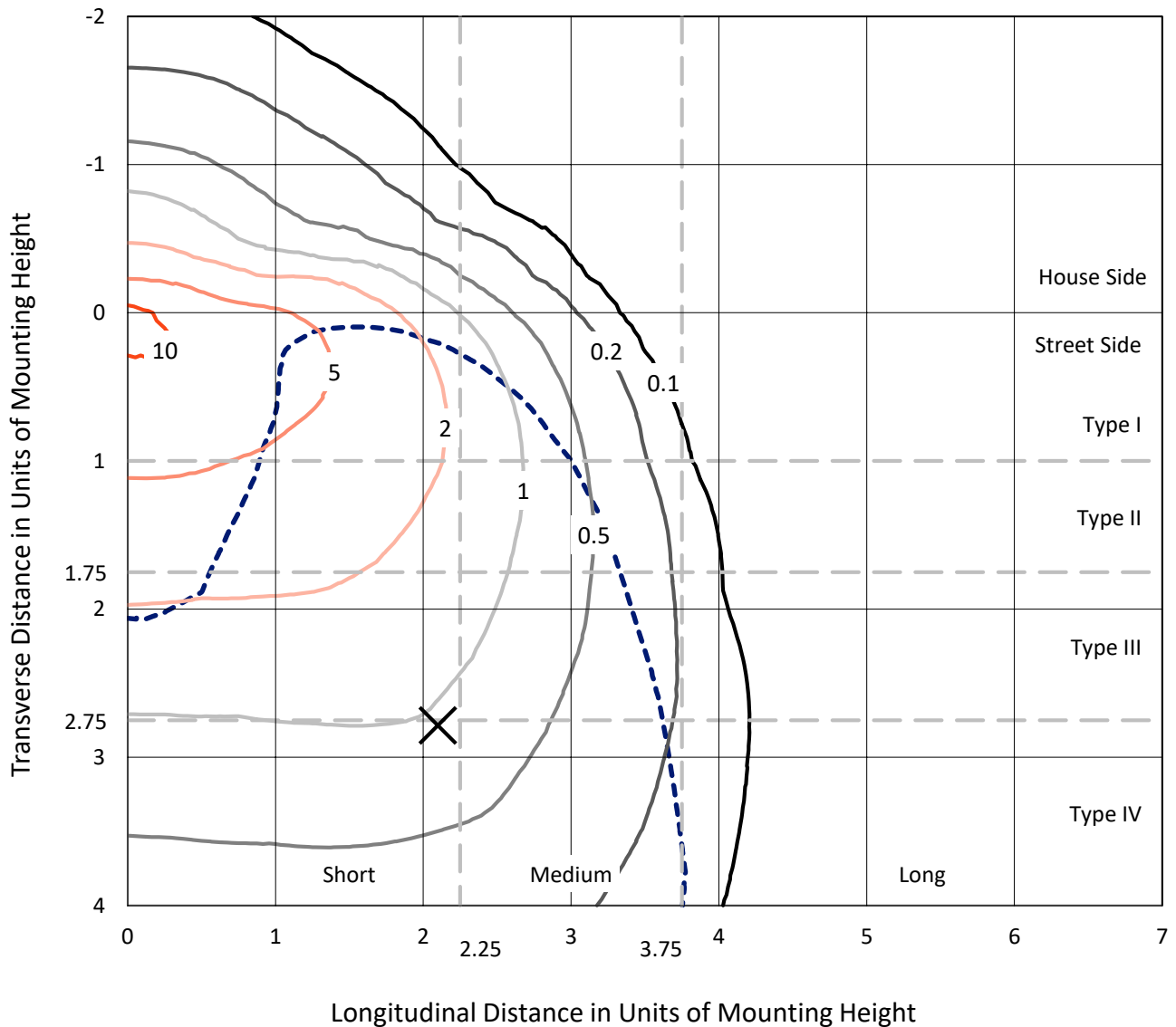
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

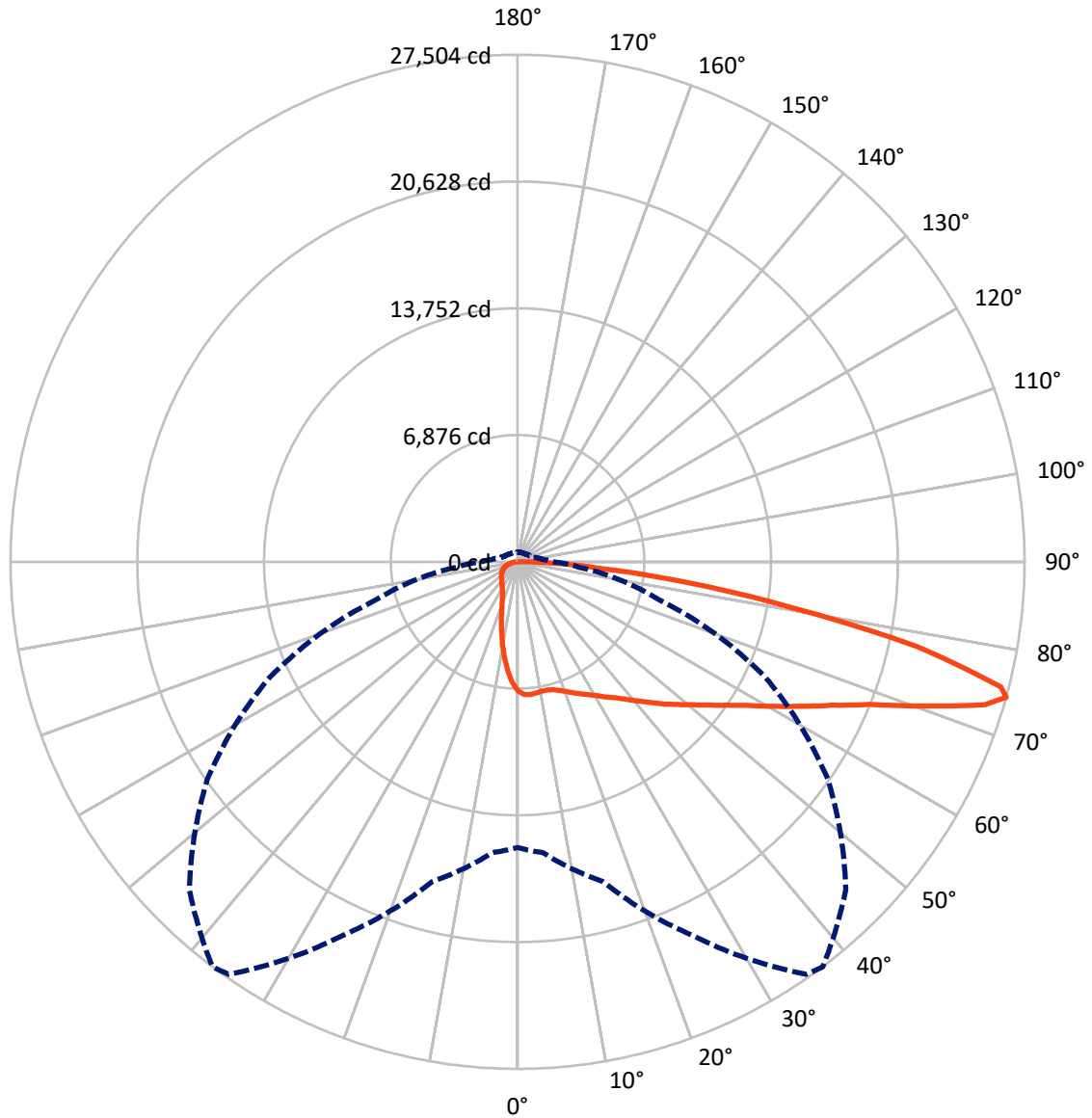
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5492.0	0.0	5492.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	34423.0	0.0	34423.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	39915.0	0.0	39915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.3	1.6
10°-20°	1587.5	4.0
20°-30°	2446.0	6.1
30°-40°	3556.9	8.9
40°-50°	5235.1	13.1
50°-60°	7351.7	18.4
60°-70°	9305.0	23.3
70°-80°	8193.4	20.5
80°-90°	1620.0	4.1
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°	39915.0	100.0
0°-180°	39915.0	100.0

Coefficient of Utilization

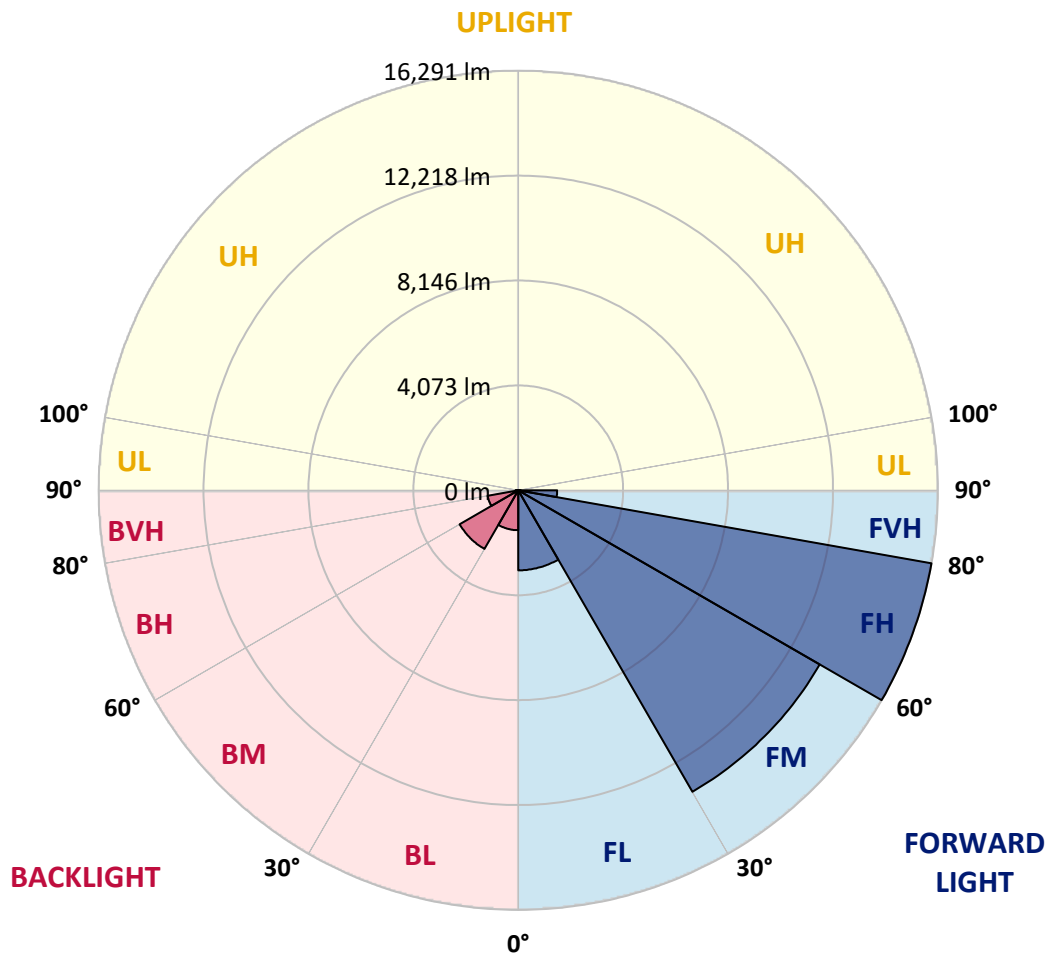


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.9	7.8			
FM (30°-60°)	13515.5	33.9			
FH (60°-80°)	16291.3	40.8			G5
FVH (80°-90°)	1510.3	3.8			G5
BL (0°-30°)	1547.0	3.9	B3/2500		
BM (30°-60°)	2628.2	6.6	B3/5000		
BH (60°-80°)	1207.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	109.7	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9
2.5°	7273.3	7274.7	7273.3	7262.0	7235.3	7212.8	7194.6	7167.8	7108.8	7063.8	6996.3
5°	7342.2	7333.8	7328.1	7307.0	7264.9	7239.6	7204.4	7153.8	7056.8	6966.8	6857.1
7.5°	7309.9	7300.0	7287.4	7262.0	7214.2	7193.2	7143.9	7077.9	6961.2	6843.1	6685.6
10°	7210.0	7207.2	7201.6	7196.0	7155.2	7138.3	7093.3	7023.0	6907.7	6764.3	6580.1
12.5°	7099.0	7106.0	7128.5	7158.0	7139.7	7131.3	7103.2	7055.4	6937.3	6782.6	6560.4
15°	7028.7	7048.3	7108.8	7186.1	7201.6	7198.8	7191.7	7160.8	7035.7	6864.1	6605.4
17.5°	7004.7	7037.1	7152.4	7280.3	7325.3	7335.2	7338.0	7284.5	7145.3	6964.0	6651.8
20°	7048.3	7089.1	7257.8	7433.6	7505.3	7510.9	7498.3	7405.5	7249.4	7049.7	6677.1
22.5°	7180.5	7217.1	7428.0	7626.2	7707.8	7716.2	7678.2	7537.6	7359.1	7151.0	6712.3
25°	7435.0	7480.0	7690.9	7889.1	7931.3	7932.7	7877.9	7703.5	7502.5	7293.0	6788.2
27.5°	7766.8	7811.8	8001.6	8195.6	8173.1	8160.5	8086.0	7911.6	7689.5	7488.4	6923.2
30°	8136.6	8185.8	8365.8	8503.6	8450.1	8424.8	8364.4	8139.4	7949.6	7755.6	7129.9
32.5°	8519.0	8564.0	8721.5	8815.7	8748.2	8737.0	8645.6	8440.3	8288.4	8163.3	7464.5
35°	8911.3	8943.6	9098.3	9151.7	9061.7	9058.9	9033.6	8845.2	8749.6	8808.7	7951.0
37.5°	9312.0	9320.4	9452.6	9455.4	9428.7	9440.0	9466.7	9348.6	9375.3	9559.5	8583.7
40°	9669.1	9691.6	9787.2	9816.8	9863.2	9902.5	10036.1	9958.8	10165.5	10491.7	9371.1
42.5°	9933.5	9977.1	10130.3	10206.2	10356.7	10418.5	10606.9	10678.7	11094.8	11584.1	10307.5
45°	10157.0	10224.5	10470.6	10626.6	10881.1	10989.4	11259.3	11499.8	12145.1	12769.4	11293.1
47.5°	10398.9	10484.6	10792.5	11090.6	11436.5	11558.8	12049.5	12409.5	13265.7	13961.7	12222.5
50°	10754.6	10820.7	11121.5	11589.8	12021.4	12178.9	12858.0	13374.0	14404.6	15097.7	13028.1
52.5°	11250.9	11225.6	11480.1	12136.7	12716.0	12910.0	13721.3	14400.4	15558.9	16125.5	13708.6
55°	11750.0	11707.9	11886.4	12708.9	13525.8	13729.7	14671.7	15431.0	16657.0	17050.7	14230.2
57.5°	12305.4	12225.3	12375.7	13354.3	14448.2	14691.4	15736.1	16526.3	17736.8	17798.7	14562.1
60°	12877.7	12769.4	12938.1	14154.3	15619.4	15906.2	16981.8	17594.8	18754.8	18397.7	14668.9
62.5°	13378.2	13302.3	13562.4	15047.1	16939.6	17254.6	18205.0	18730.9	19758.7	18646.5	14283.7
65°	13815.5	13828.1	14278.0	16051.0	18411.7	18747.8	19608.2	20131.3	20548.9	18498.9	13382.4
67.5°	14337.1	14408.8	15176.5	17372.7	20264.8	20633.2	21649.8	21658.2	20990.3	17632.8	11608.0
70°	15097.7	15245.4	16412.4	19206.1	22899.7	23405.9	24190.4	22555.2	20370.3	15284.7	9133.4
72.5°	15772.6	16048.2	17727.0	21303.9	26111.0	26494.9	25676.6	22037.8	17779.0	11454.8	5690.1
74°	15498.5	15840.1	17966.0	22337.3	27320.2	27504.4	25174.6	20527.8	14823.6	7932.7	3306.9
75°	14907.9	15279.1	17617.3	22327.5	27166.9	27064.3	23962.6	18802.6	12208.4	5410.3	2200.4
77.5°	12031.2	12423.5	14844.7	19135.8	22275.4	22178.4	18407.5	12613.3	5347.1	1774.4	1117.8
80°	6994.9	7294.4	9215.0	12152.2	15020.4	15196.2	12105.8	6241.3	2103.4	996.9	757.8
82.5°	3107.3	3314.0	4451.4	6203.3	9064.6	9290.9	6339.7	3270.4	1299.2	606.0	455.5
85°	2038.7	2192.0	2702.4	2954.0	4316.5	4471.1	3103.1	2546.3	857.7	333.2	334.6
87.5°	1466.5	1614.1	2007.8	1753.3	1981.1	1875.6	1688.6	2356.5	344.5	189.8	112.5
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°	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9	7032.9
2.5°	6966.8	6944.3	6893.7	6798.1	6744.6	6699.6	6625.1	6581.5	6561.9	6560.4	6568.9
5°	6793.8	6741.8	6611.1	6450.8	6322.8	6206.1	6061.3	5974.1	5912.3	5875.7	5885.6
7.5°	6592.8	6511.2	6306.0	6050.1	5844.8	5618.4	5394.9	5261.3	5157.2	5079.9	5094.0
10°	6455.0	6342.5	6043.0	5674.7	5333.0	5004.0	4696.1	4511.9	4365.7	4253.2	4261.6
12.5°	6408.6	6256.8	5842.0	5349.9	4870.4	4420.5	4018.4	3735.8	3585.3	3457.4	3467.2
15°	6415.6	6211.8	5673.3	5057.4	4454.2	3887.6	3399.7	3069.3	2865.5	2776.9	2778.3
17.5°	6421.3	6159.7	5496.1	4743.9	4042.3	3389.9	2859.8	2525.2	2332.6	2251.0	2252.4
20°	6403.0	6075.4	5276.8	4383.9	3612.0	2932.9	2419.7	2135.7	1989.5	1926.2	1926.2
22.5°	6379.1	5975.5	5029.3	4022.6	3187.4	2536.4	2104.8	1888.3	1803.9	1761.7	1760.3
25°	6390.3	5901.0	4776.2	3651.4	2796.6	2220.1	1895.3	1751.9	1695.6	1668.9	1667.5
27.5°	6450.8	5865.9	4542.8	3281.6	2454.9	1982.5	1754.7	1653.5	1616.9	1600.0	1600.0
30°	6560.4	5865.9	4299.6	2966.7	2170.9	1806.7	1646.4	1577.5	1552.2	1541.0	1541.0
32.5°	6751.7	5898.2	4064.8	2654.5	1944.5	1668.9	1556.5	1510.1	1490.4	1484.7	1484.7
35°	7080.7	6007.9	3835.6	2359.3	1761.7	1556.5	1470.7	1444.0	1429.9	1428.5	1432.7
37.5°	7543.3	6231.4	3620.5	2141.4	1632.4	1465.1	1399.0	1377.9	1369.5	1376.5	1382.1
40°	8125.3	6535.1	3425.0	1944.5	1534.0	1392.0	1332.9	1318.8	1314.6	1324.5	1332.9
42.5°	8828.3	6945.7	3264.8	1802.5	1458.0	1330.1	1276.7	1259.8	1255.6	1266.8	1278.1
45°	9589.0	7387.2	3152.3	1697.1	1399.0	1283.7	1227.4	1209.2	1200.7	1206.4	1219.0
47.5°	10280.8	7804.8	3107.3	1622.5	1342.7	1244.3	1183.9	1161.4	1147.3	1144.5	1154.3
50°	10864.2	8115.5	3128.4	1577.5	1297.7	1200.7	1141.7	1116.4	1095.3	1082.6	1089.7
52.5°	11288.9	8310.9	3148.1	1557.9	1262.6	1152.9	1095.3	1071.4	1043.3	1022.2	1022.2
55°	11596.8	8355.9	3104.5	1542.4	1235.9	1100.9	1043.3	1020.8	992.6	968.7	965.9
57.5°	11717.7	8229.4	2942.8	1519.9	1217.6	1051.7	988.4	971.6	947.7	919.5	918.1
60°	11554.6	7838.5	2630.6	1472.1	1193.7	1010.9	933.6	922.3	911.1	884.4	883.0
62.5°	10899.4	6980.8	2227.1	1375.1	1145.9	967.3	883.0	888.6	890.0	871.7	868.9
65°	9711.3	5802.6	1833.4	1248.5	1074.2	915.3	831.0	857.7	873.1	870.3	866.1
67.5°	7984.7	4516.1	1553.6	1115.0	980.0	843.6	774.7	805.6	818.3	828.1	825.3
70°	5926.3	3184.6	1285.1	974.4	866.1	759.2	701.6	717.1	708.6	719.9	724.1
72.5°	3304.1	1910.8	1047.5	833.8	748.0	660.8	620.1	617.2	599.0	599.0	599.0
74°	1982.5	1401.8	920.9	746.6	676.3	596.1	561.0	548.3	531.5	532.9	531.5
75°	1594.4	1205.0	845.0	688.9	625.7	558.2	523.0	506.2	493.5	493.5	492.1
77.5°	1006.7	915.3	680.5	548.3	500.5	459.8	435.9	413.4	413.4	412.0	410.6
80°	760.7	728.3	530.1	414.8	383.8	352.9	337.4	327.6	327.6	331.8	330.4
82.5°	521.6	548.3	372.6	289.6	274.2	251.7	248.9	250.3	246.1	240.4	239.0
85°	381.0	412.0	251.7	182.8	167.3	153.3	164.5	170.1	163.1	150.4	144.8
87.5°	146.2	270.0	135.0	75.9	70.3	60.5	70.3	73.1	78.7	61.9	63.3
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)