

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: P319851

Luminaire Tested: **GAN-SA7C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39758 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

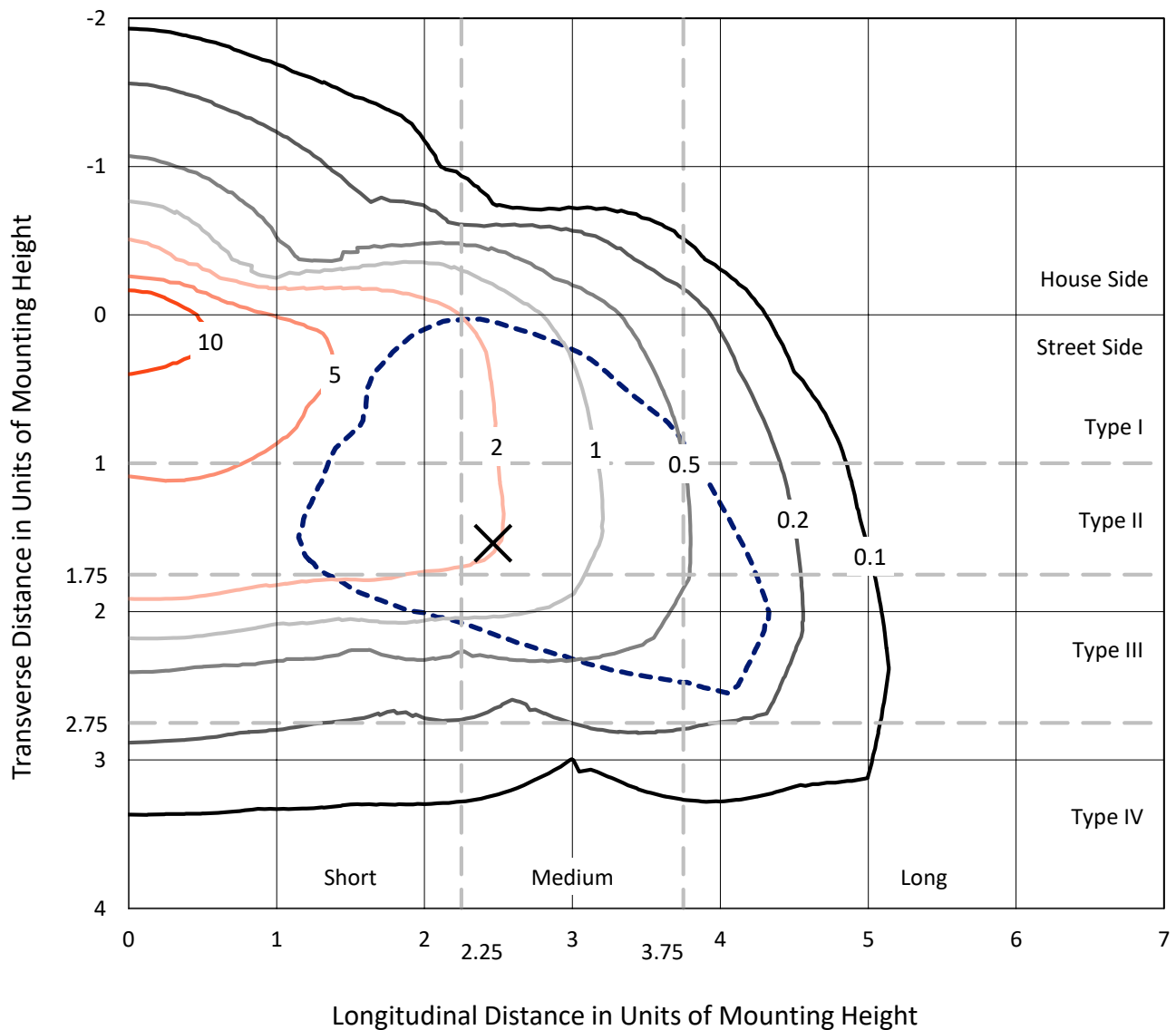
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

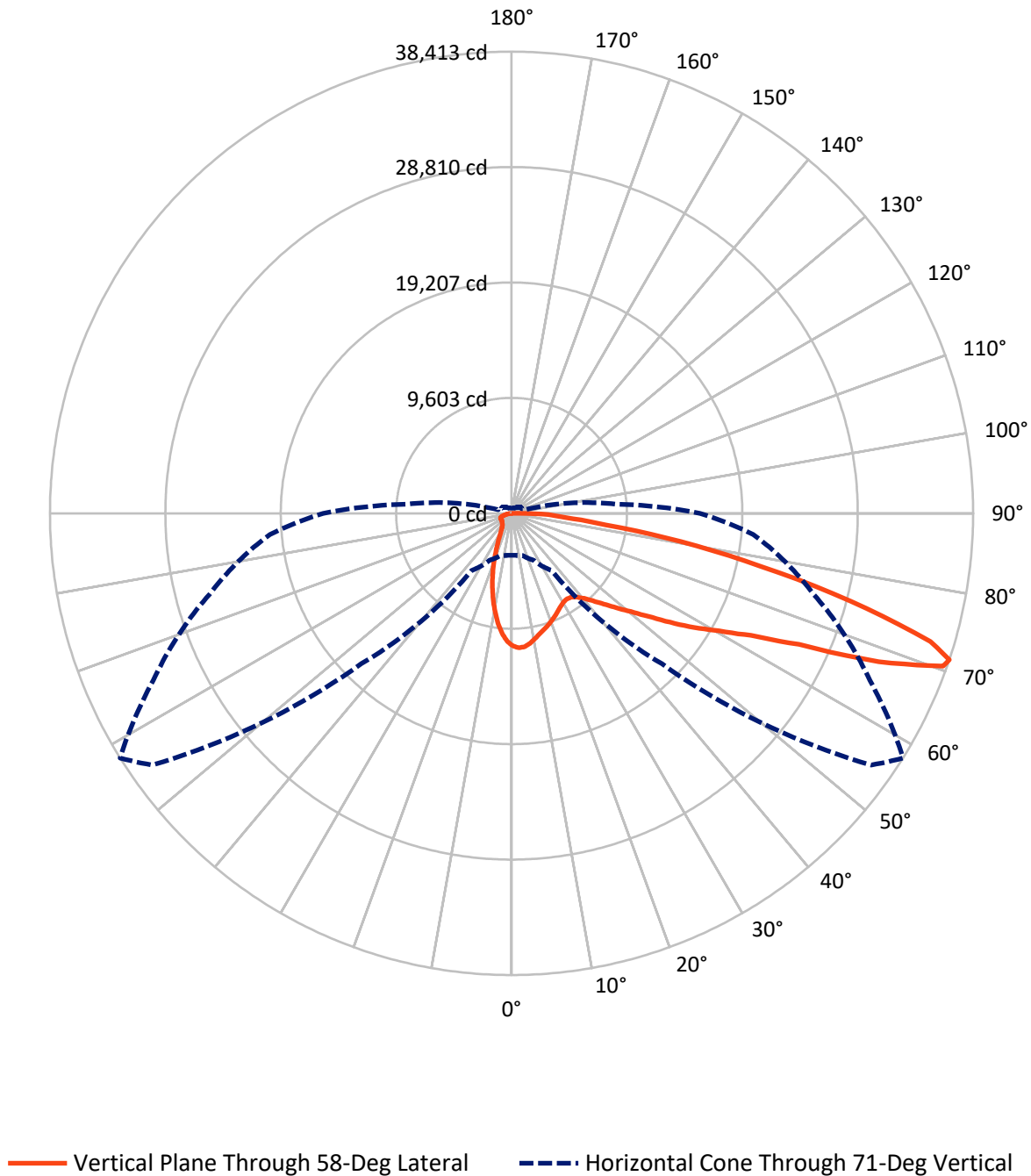
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5944.1	0.0	5944.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	33813.9	0.0	33813.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	39758.0	0.0	39758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.3	2.4
10°-20°	2113.1	5.3
20°-30°	2685.6	6.8
30°-40°	3420.9	8.6
40°-50°	4851.0	12.2
50°-60°	7507.1	18.9
60°-70°	10220.0	25.7
70°-80°	6817.9	17.1
80°-90°	1192.0	3.0
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°	39758.0	100.0
0°-180°	39758.0	100.0

Coefficient of Utilization



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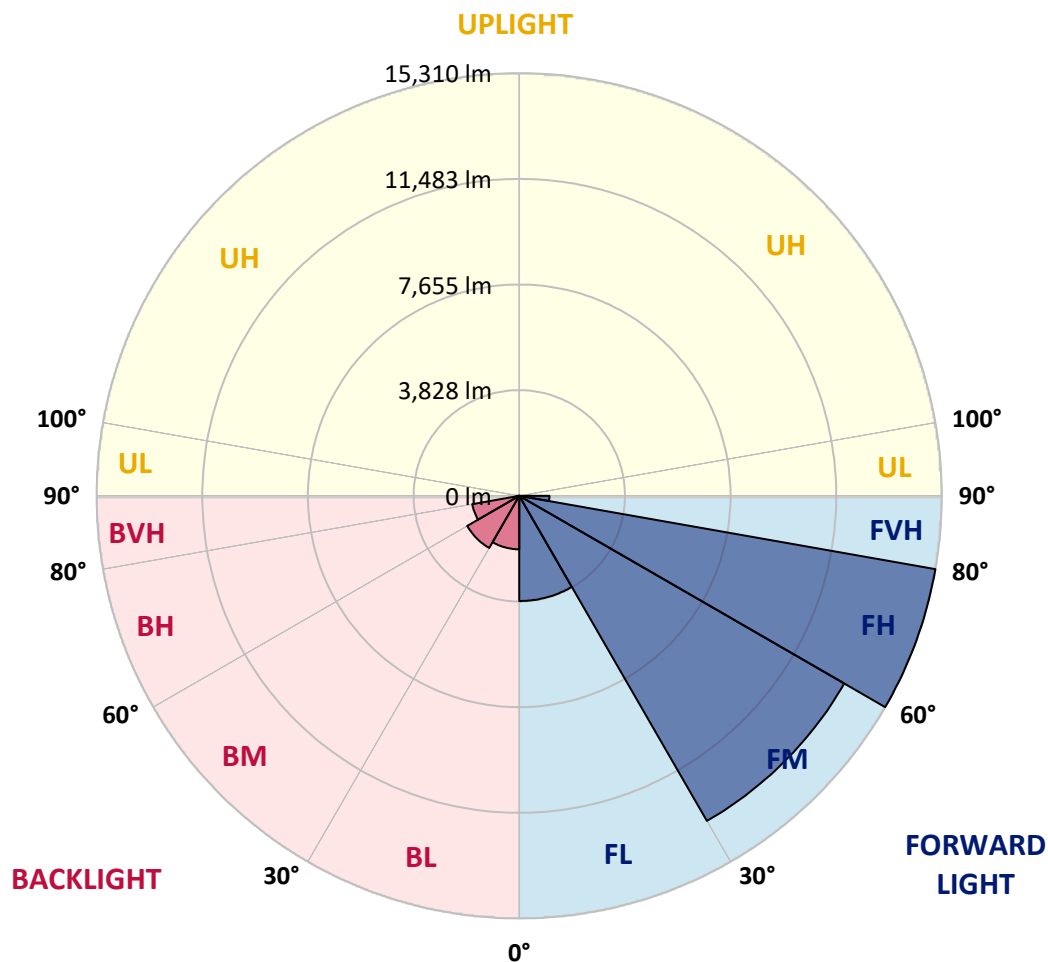
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3811.5	9.6			
FM	(30°-60°)	13599.2	34.2			
FH	(60°-80°)	15310.3	38.5			G5
FVH	(80°-90°)	1093.0	2.7			G5
BL	(0°-30°)	1937.6	4.9	B3/2500		
BM	(30°-60°)	2179.9	5.5	B2/2500		
BH	(60°-80°)	1727.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	99.0	0.2			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6
2.5°	11307.8	11292.6	11298.1	11287.1	11260.8	11234.4	11195.7	11202.6	11148.6	11068.3	10968.5
5°	11094.6	11089.0	11130.6	11154.1	11173.5	11158.3	11147.2	11161.0	11082.1	10971.3	10798.2
7.5°	10647.2	10586.3	10638.9	10717.9	10792.7	10849.4	10924.2	10933.9	10884.1	10767.7	10540.6
10°	10011.6	9953.4	10030.9	10154.2	10303.8	10439.5	10590.5	10618.2	10627.8	10522.6	10247.0
12.5°	9352.3	9308.0	9385.6	9558.7	9806.6	10015.7	10256.7	10298.2	10384.1	10313.5	9975.6
15°	8762.4	8745.7	8839.9	9010.3	9295.6	9615.5	9963.1	10039.3	10184.7	10161.1	9763.7
17.5°	8252.7	8248.6	8320.6	8499.2	8815.0	9219.4	9670.9	9799.7	10015.7	10043.4	9589.2
20°	7873.2	7864.9	7914.8	8046.4	8371.8	8830.2	9355.1	9532.4	9844.0	9940.9	9409.1
22.5°	7669.7	7668.3	7669.7	7732.0	7997.9	8424.4	9047.7	9263.7	9676.4	9859.2	9209.7
25°	7635.0	7630.9	7600.4	7593.5	7744.5	8085.1	8743.0	8981.2	9517.1	9802.4	9020.0
27.5°	7725.1	7730.6	7690.4	7625.3	7655.8	7862.2	8478.5	8733.3	9389.7	9791.4	8888.4
30°	7912.0	7909.3	7874.6	7806.8	7747.2	7779.1	8290.1	8544.9	9303.9	9839.8	8798.4
32.5°	8118.4	8133.6	8126.7	8089.3	8000.7	7873.2	8233.3	8482.6	9278.9	9956.2	8759.6
35°	8366.3	8382.9	8432.8	8461.8	8358.0	8153.0	8355.2	8571.2	9351.0	10175.0	8821.9
37.5°	8601.7	8644.6	8784.5	8907.8	8819.1	8590.6	8679.3	8833.0	9573.9	10519.8	8989.5
40°	8873.2	8910.6	9139.1	9400.8	9387.0	9150.1	9201.4	9303.9	9967.2	11014.2	9292.8
42.5°	9140.4	9215.2	9546.2	9917.4	10024.0	9814.9	9896.6	9950.6	10521.2	11669.3	9821.8
45°	9496.4	9576.7	10036.5	10483.8	10733.1	10615.4	10745.6	10766.3	11217.8	12561.2	10590.5
47.5°	10035.1	10126.5	10662.5	11132.0	11512.8	11525.3	11739.9	11731.6	12087.5	13581.9	11558.5
50°	10874.4	11005.9	11444.9	11884.0	12346.5	12604.1	12890.8	12850.6	13130.4	14669.0	12673.4
52.5°	11974.0	12034.9	12360.4	12684.4	13259.2	13836.7	14248.0	14212.0	14313.1	15786.7	13939.2
55°	13113.8	13159.5	13293.8	13471.1	14243.9	15185.6	16055.3	15998.6	15742.3	16947.2	15189.8
57.5°	14138.6	14231.4	14324.2	14397.6	15235.5	16595.5	17904.2	17908.4	17293.4	18199.2	16481.9
60°	14297.9	14379.6	14993.1	15572.0	16932.0	18476.2	19883.2	19841.7	18898.6	19557.8	17922.2
62.5°	12638.7	12822.9	13847.8	15387.8	18566.2	21916.3	22407.9	22356.7	20818.1	21232.2	19599.3
65°	9057.4	9266.5	10503.2	12817.4	17774.0	25706.8	26964.3	26274.6	23435.6	23291.5	21563.1
67.5°	5225.3	5275.1	5811.1	7669.7	13533.4	25904.9	33915.2	32949.9	27500.3	25627.9	22524.3
70°	3863.9	3862.5	3989.9	4719.8	7323.4	21142.1	37221.0	38086.6	31779.7	26396.5	21165.7
71°	3494.1	3498.3	3640.9	4296.0	5800.0	17696.5	36518.9	38413.4	32907.0	26017.0	20182.4
72.5°	2988.6	3002.5	3200.5	3852.8	4879.1	12203.9	33494.2	36452.4	33441.6	25080.8	18643.7
75°	2267.1	2299.0	2573.2	3247.6	4459.4	6189.2	24582.3	29108.2	29707.8	22131.0	13853.3
77.5°	1617.6	1653.6	1963.8	2731.1	4239.2	4664.4	16462.5	21232.2	21862.3	14182.9	6248.7
80°	1022.1	1065.0	1299.1	2172.9	3983.0	4429.0	10345.3	14271.6	11921.4	4538.4	1589.9
82.5°	599.7	632.9	806.0	1419.5	3253.2	4265.5	6086.7	7910.6	4639.5	1371.1	722.9
85°	347.6	362.8	502.7	904.4	2362.7	4026.0	4471.9	4422.0	2013.7	670.3	342.1
87.5°	162.0	180.0	297.8	472.3	1311.5	2918.0	3534.3	3053.7	1252.0	314.4	160.7
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°	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6	11015.6
2.5°	10920.1	10896.5	10798.2	10710.9	10619.5	10500.4	10368.9	10352.2	10271.9	10287.2	10259.5
5°	10704.0	10644.5	10407.6	10193.0	9939.5	9712.4	9465.9	9352.3	9188.9	9177.8	9136.3
7.5°	10395.2	10284.4	9917.4	9510.2	9103.1	8715.3	8331.7	8079.6	7822.0	7712.6	7702.9
10°	10047.6	9859.2	9319.1	8716.7	8129.5	7563.0	7014.6	6608.8	6243.2	6070.1	6063.2
12.5°	9718.0	9439.6	8698.7	7878.8	7075.5	6341.5	5589.5	5056.3	4597.9	4444.2	4379.1
15°	9438.2	9046.3	8094.8	7046.5	6071.5	5052.2	4196.3	3635.4	3211.6	3064.8	3037.1
17.5°	9166.8	8662.7	7475.8	6205.8	5027.2	3906.8	3049.6	2632.7	2407.0	2347.4	2346.0
20°	8896.7	8267.9	6829.0	5345.8	4017.6	2922.2	2344.7	2157.7	2081.5	2074.6	2063.5
22.5°	8590.6	7849.7	6149.0	4483.0	3135.5	2297.6	1992.9	1918.1	1908.4	1933.3	1933.3
25°	8304.0	7434.2	5459.3	3638.2	2438.8	1916.7	1779.6	1764.4	1790.7	1835.0	1839.2
27.5°	8036.7	7034.0	4786.3	2887.6	1954.1	1688.2	1631.4	1649.4	1696.5	1747.8	1749.1
30°	7816.5	6655.9	4132.6	2275.4	1650.8	1517.9	1508.2	1544.2	1595.4	1635.6	1645.3
32.5°	7646.1	6333.2	3501.1	1829.5	1452.8	1390.5	1398.8	1429.2	1461.1	1483.2	1498.5
35°	7567.2	6056.2	2918.0	1542.8	1326.7	1292.1	1303.2	1319.8	1333.7	1350.3	1362.8
37.5°	7581.0	5841.6	2397.3	1364.1	1242.3	1224.3	1224.3	1224.3	1224.3	1232.6	1234.0
40°	7709.8	5718.3	1973.5	1250.6	1185.5	1166.1	1150.9	1137.0	1125.9	1131.5	1128.7
42.5°	8039.4	5707.2	1663.3	1178.6	1139.8	1107.9	1077.5	1058.1	1044.2	1049.8	1052.5
45°	8598.9	5845.7	1454.2	1127.3	1096.9	1048.4	1009.6	988.8	979.1	997.1	999.9
47.5°	9323.3	6147.6	1326.7	1089.9	1056.7	993.0	951.4	932.0	934.8	961.1	968.1
50°	10256.7	6637.9	1265.8	1066.4	1029.0	945.9	903.0	886.3	894.7	932.0	940.4
52.5°	11281.5	7344.2	1272.7	1059.5	1011.0	911.3	865.6	846.2	860.0	894.7	901.6
55°	12464.2	8193.2	1387.7	1069.2	984.7	889.1	835.1	801.9	812.9	844.8	850.3
57.5°	13778.5	9165.4	1619.0	1066.4	951.4	868.3	803.3	753.4	761.7	781.1	786.6
60°	15146.8	10339.8	1977.7	1074.7	936.2	843.4	760.3	698.0	695.2	711.8	714.6
62.5°	16789.3	11698.4	2387.6	1080.2	945.9	811.6	703.5	642.6	634.3	638.4	641.2
65°	18481.7	12681.7	2233.9	1058.1	976.4	785.2	653.7	588.6	573.4	570.6	572.0
67.5°	18534.3	11627.8	1566.3	1013.8	988.8	771.4	616.3	542.9	518.0	508.3	506.9
70°	16621.8	9446.5	1220.1	966.7	939.0	749.2	581.7	505.5	468.1	452.9	451.5
71°	15688.3	8695.9	1156.4	943.1	901.6	727.1	566.4	488.9	450.1	433.5	430.7
72.5°	14224.5	7795.7	1078.8	905.7	829.6	670.3	537.3	465.3	425.2	405.8	401.6
75°	10208.2	5097.9	926.5	807.4	686.9	534.6	470.9	418.2	383.6	360.1	357.3
77.5°	3933.2	2028.9	700.8	671.7	526.3	418.2	387.8	361.5	336.5	313.0	311.6
80°	1216.0	907.1	511.0	505.5	380.9	311.6	301.9	295.0	285.3	260.4	254.8
82.5°	649.5	520.7	351.8	326.8	249.3	207.7	218.8	221.6	223.0	196.7	193.9
85°	310.2	275.6	198.0	185.6	145.4	116.3	134.3	145.4	146.8	120.5	112.2
87.5°	148.2	144.0	92.8	70.6	54.0	38.8	47.1	58.2	63.7	45.7	40.2
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)