

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: P319859

Luminaire Tested: **GAN-SA5D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319859
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-SA5D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 30819 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

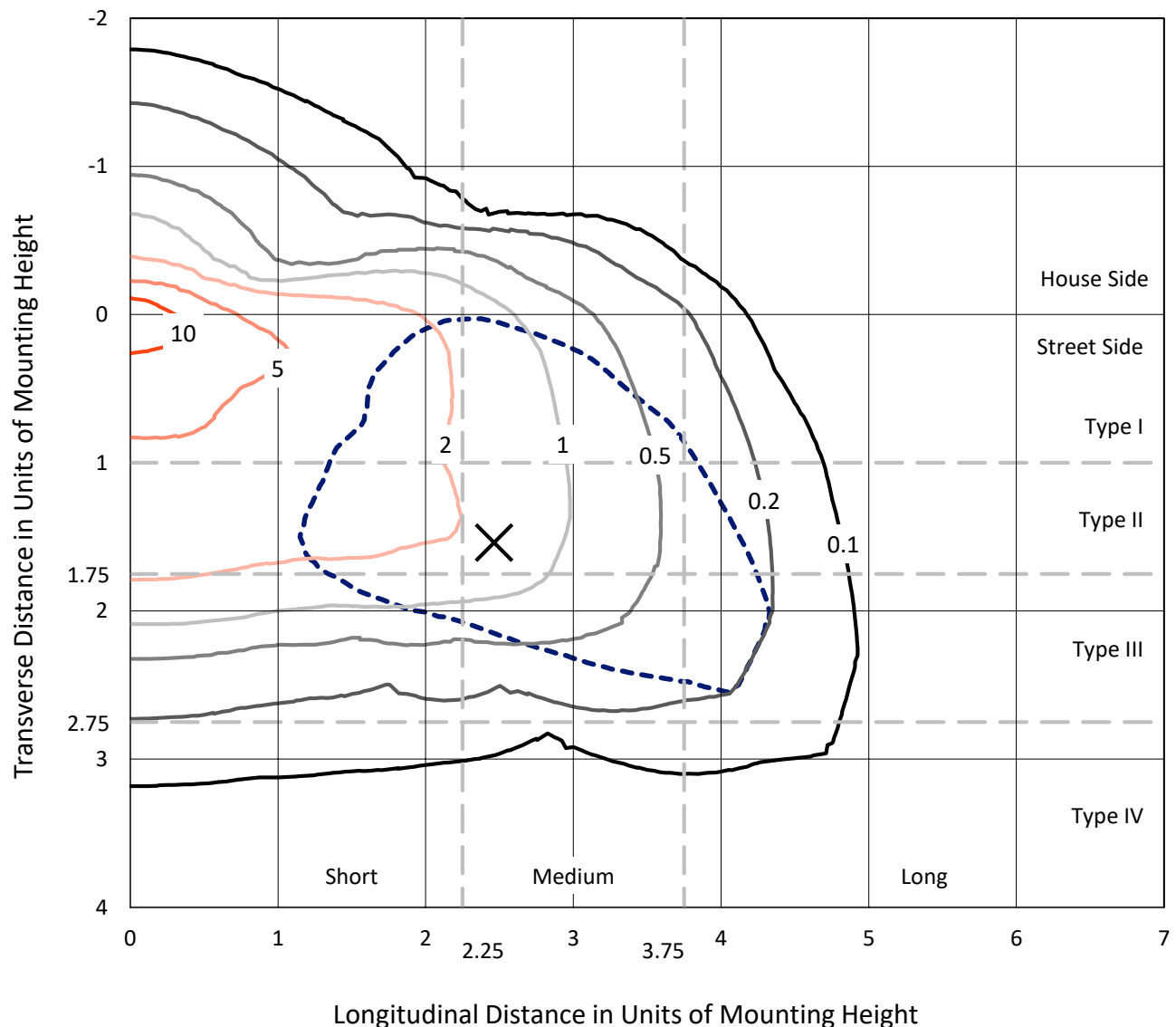


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Iso-Footcandle Lines of Horizontal Illumination

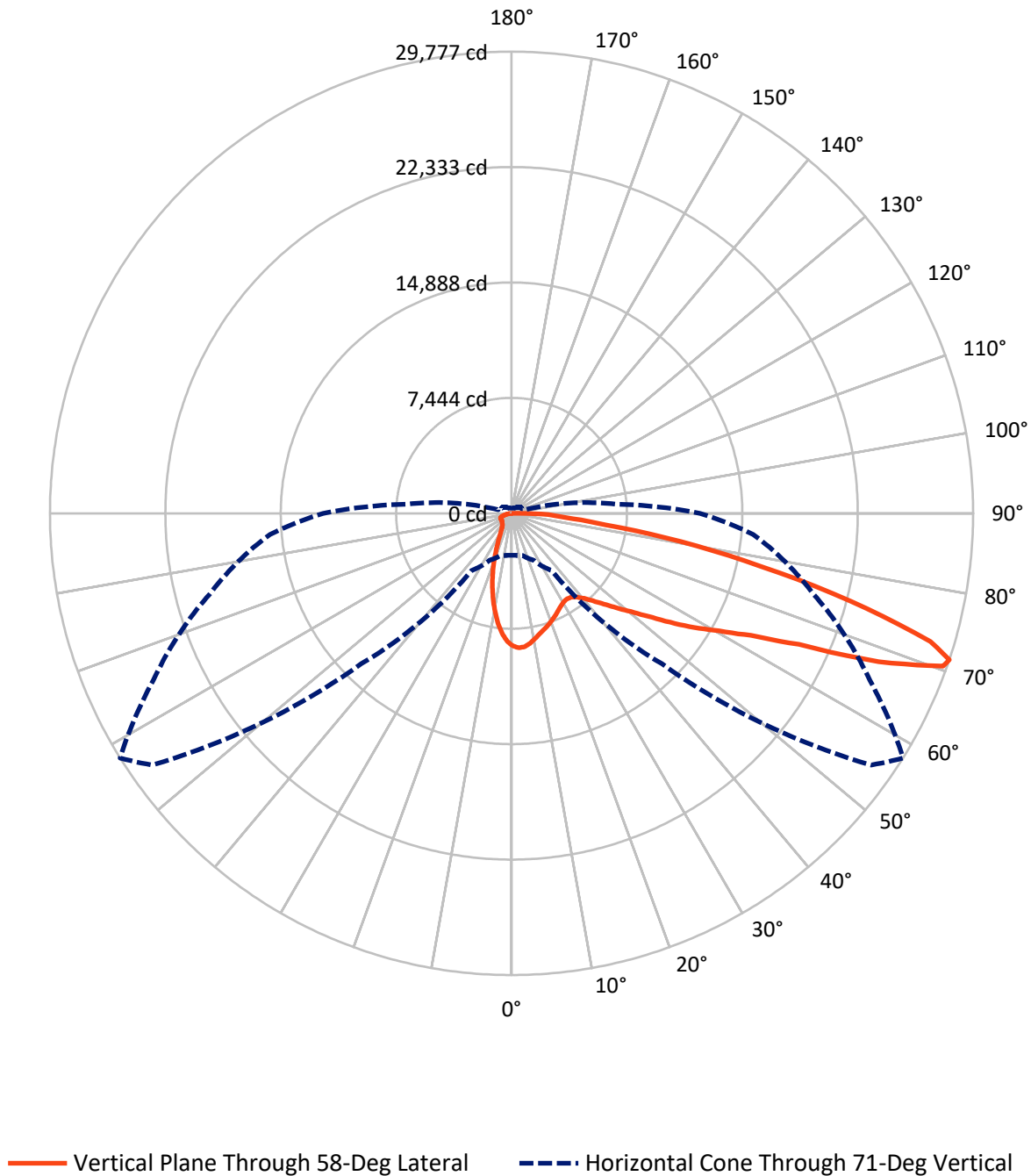
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	4607.6	0.0	4607.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26211.3	0.0	26211.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	30819.0	0.0	30819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.7	2.4
10°-20°	1638.0	5.3
20°-30°	2081.8	6.8
30°-40°	2651.8	8.6
40°-50°	3760.3	12.2
50°-60°	5819.3	18.9
60°-70°	7922.2	25.7
70°-80°	5285.0	17.1
80°-90°	924.0	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°	30819.0	100.0
0°-180°	30819.0	100.0

Coefficient of Utilization



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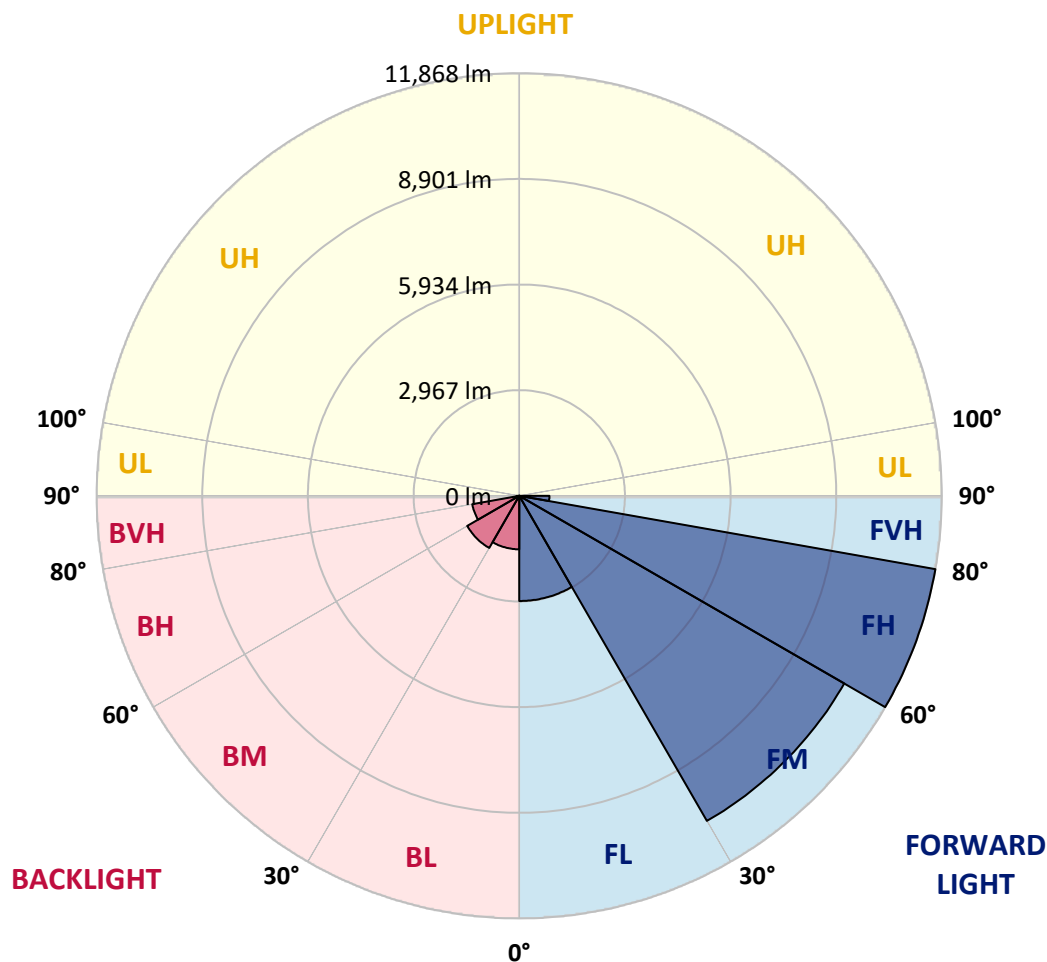
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2954.5	9.6			
FM	(30°-60°)	10541.6	34.2			
FH	(60°-80°)	11868.0	38.5			G4/12000
FVH	(80°-90°)	847.2	2.7			G5
BL	(0°-30°)	1502.0	4.9	B3/2500		
BM	(30°-60°)	1689.8	5.5	B2/2500		
BH	(60°-80°)	1339.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	76.8	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°	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9
2.5°	8765.4	8753.6	8757.9	8749.3	8728.9	8708.5	8678.5	8683.9	8642.0	8579.7	8502.4
5°	8600.1	8595.8	8628.0	8646.3	8661.3	8649.5	8640.9	8651.6	8590.5	8504.6	8370.4
7.5°	8253.4	8206.1	8246.9	8308.1	8366.1	8410.1	8468.1	8475.6	8436.9	8346.8	8170.7
10°	7760.6	7715.5	7775.6	7871.2	7987.1	8092.3	8209.3	8230.8	8238.3	8156.7	7943.1
12.5°	7249.6	7215.3	7275.4	7409.6	7601.7	7763.8	7950.6	7982.8	8049.4	7994.6	7732.7
15°	6792.3	6779.4	6852.4	6984.4	7205.6	7453.6	7723.0	7782.1	7894.8	7876.6	7568.4
17.5°	6397.2	6394.0	6449.8	6588.3	6833.1	7146.5	7496.5	7596.4	7763.8	7785.3	7433.2
20°	6103.1	6096.6	6135.3	6237.3	6489.5	6844.9	7251.8	7389.2	7630.7	7705.9	7293.6
22.5°	5945.3	5944.2	5945.3	5993.6	6199.7	6530.3	7013.4	7180.9	7500.8	7642.5	7139.0
25°	5918.4	5915.2	5891.6	5886.2	6003.2	6267.3	6777.2	6961.9	7377.4	7598.5	6992.0
27.5°	5988.2	5992.5	5961.4	5910.9	5934.5	6094.5	6572.2	6769.7	7278.6	7589.9	6890.0
30°	6133.1	6131.0	6104.1	6051.5	6005.4	6030.1	6426.2	6623.7	7212.0	7627.5	6820.2
32.5°	6293.1	6304.9	6299.5	6270.5	6201.8	6103.1	6382.2	6575.4	7192.7	7717.7	6790.1
35°	6485.2	6498.1	6536.8	6559.3	6478.8	6319.9	6476.7	6644.1	7248.5	7887.3	6838.4
37.5°	6667.7	6701.0	6809.5	6905.0	6836.3	6659.2	6727.9	6847.0	7421.4	8154.6	6968.3
40°	6878.2	6907.1	7084.3	7287.2	7276.4	7092.9	7132.6	7212.0	7726.3	8537.8	7203.4
42.5°	7085.4	7143.3	7399.9	7687.6	7770.3	7608.2	7671.5	7713.4	8155.7	9045.6	7613.5
45°	7361.3	7423.5	7779.9	8126.7	8319.9	8228.7	8329.6	8345.7	8695.7	9737.0	8209.3
47.5°	7778.9	7849.7	8265.2	8629.1	8924.3	8934.0	9100.4	9093.9	9369.8	10528.2	8959.8
50°	8429.4	8531.4	8871.7	9212.0	9570.6	9770.3	9992.5	9961.4	10178.2	11370.9	9823.9
52.5°	9281.8	9329.0	9581.3	9832.5	10278.1	10725.7	11044.6	11016.6	11095.0	12237.3	10805.2
55°	10165.3	10200.8	10304.9	10442.3	11041.3	11771.3	12445.5	12401.5	12202.9	13136.9	11774.6
57.5°	10959.8	11031.7	11103.6	11160.5	11810.0	12864.2	13878.7	13881.9	13405.3	14107.4	12776.2
60°	11083.2	11146.5	11622.1	12070.9	13125.1	14322.1	15412.8	15380.6	14649.5	15160.5	13892.7
62.5°	9797.1	9939.9	10734.3	11928.1	14391.9	16988.7	17369.8	17330.1	16137.4	16458.4	15192.7
65°	7020.9	7183.0	8141.7	9935.6	13777.8	19927.0	20901.8	20367.2	18166.4	18054.8	16715.0
67.5°	4050.5	4089.1	4504.6	5945.3	10490.6	20080.5	26289.9	25541.6	21317.2	19865.8	17460.0
70°	2995.2	2994.1	3092.9	3658.6	5676.9	16388.6	28852.4	29523.4	24634.5	20461.6	16406.9
71°	2708.5	2711.8	2822.3	3330.1	4496.0	13717.7	28308.1	29776.7	25508.3	20167.5	15644.7
72.5°	2316.7	2327.4	2480.9	2986.6	3782.1	9460.0	25963.5	28256.6	25922.7	19441.8	14452.0
75°	1757.4	1782.1	1994.6	2517.4	3456.8	4797.6	19055.3	22563.6	23028.5	17155.1	10738.6
77.5°	1253.9	1281.8	1522.3	2117.0	3286.1	3615.7	12761.1	16458.4	16946.9	10994.1	4843.8
80°	792.3	825.6	1007.0	1684.4	3087.5	3433.2	8019.3	11062.8	9241.0	3518.0	1232.4
82.5°	464.8	490.6	624.8	1100.4	2521.7	3306.5	4718.2	6132.1	3596.4	1062.8	560.4
85°	269.5	281.3	389.7	701.0	1831.5	3120.8	3466.5	3427.8	1560.9	519.6	265.2
87.5°	125.6	139.6	230.8	366.1	1016.6	2261.9	2739.7	2367.2	970.5	243.7	124.5
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°	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9	8538.9
2.5°	8464.8	8446.6	8370.4	8302.7	8231.9	8139.6	8037.6	8024.7	7962.4	7974.2	7952.8
5°	8297.4	8251.2	8067.6	7901.2	7704.8	7528.7	7337.6	7249.6	7122.9	7114.3	7082.1
7.5°	8058.0	7972.1	7687.6	7372.0	7056.4	6755.8	6458.4	6263.0	6063.3	5978.5	5971.0
10°	7788.5	7642.5	7223.8	6756.8	6301.7	5862.6	5437.5	5122.9	4839.5	4705.3	4700.0
12.5°	7533.0	7317.2	6742.9	6107.4	5484.7	4915.7	4332.8	3919.5	3564.1	3445.0	3394.5
15°	7316.2	7012.4	6274.8	5462.2	4706.4	3916.3	3252.8	2818.0	2489.5	2375.7	2354.3
17.5°	7105.7	6715.0	5795.0	4810.5	3896.9	3028.5	2363.9	2040.8	1865.8	1819.6	1818.6
20°	6896.4	6409.0	5293.6	4143.9	3114.3	2265.2	1817.5	1672.6	1613.5	1608.2	1599.6
22.5°	6659.2	6084.8	4766.5	3475.0	2430.5	1781.0	1544.8	1486.9	1479.3	1498.7	1498.7
25°	6436.9	5762.8	4231.9	2820.2	1890.5	1485.8	1379.5	1367.7	1388.1	1422.4	1425.7
27.5°	6229.7	5452.5	3710.1	2238.3	1514.8	1308.6	1264.6	1278.6	1315.1	1354.8	1355.9
30°	6059.0	5159.4	3203.4	1763.8	1279.7	1176.6	1169.1	1197.0	1236.7	1267.8	1275.4
32.5°	5927.0	4909.3	2713.9	1418.1	1126.1	1077.8	1084.3	1107.9	1132.6	1149.8	1161.6
35°	5865.8	4694.6	2261.9	1195.9	1028.4	1001.6	1010.2	1023.1	1033.8	1046.7	1056.4
37.5°	5876.5	4528.2	1858.3	1057.4	963.0	949.0	949.0	949.0	949.0	955.4	956.5
40°	5976.4	4432.6	1529.8	969.4	918.9	903.9	892.1	881.4	872.8	877.1	874.9
42.5°	6231.9	4424.1	1289.3	913.6	883.5	858.8	835.2	820.2	809.4	813.7	815.9
45°	6665.6	4531.4	1127.2	873.9	850.2	812.7	782.6	766.5	759.0	772.9	775.1
47.5°	7227.1	4765.4	1028.4	844.9	819.1	769.7	737.5	722.5	724.6	745.0	750.4
50°	7950.6	5145.5	981.2	826.6	797.6	733.2	699.9	687.1	693.5	722.5	728.9
52.5°	8745.0	5693.0	986.6	821.3	783.7	706.4	671.0	655.9	666.7	693.5	698.9
55°	9661.8	6351.1	1075.7	828.8	763.3	689.2	647.3	621.6	630.2	654.9	659.2
57.5°	10680.6	7104.7	1255.0	826.6	737.5	673.1	622.7	584.0	590.4	605.5	609.8
60°	11741.3	8015.0	1533.0	833.1	725.7	653.8	589.4	541.1	538.9	551.8	553.9
62.5°	13014.5	9068.2	1850.8	837.4	733.2	629.1	545.4	498.1	491.7	494.9	497.0
65°	14326.4	9830.4	1731.6	820.2	756.8	608.7	506.7	456.3	444.4	442.3	443.4
67.5°	14367.2	9013.4	1214.2	785.8	766.5	598.0	477.7	420.8	401.5	394.0	392.9
70°	12884.6	7322.6	945.8	749.3	727.9	580.8	450.9	391.8	362.9	351.0	350.0
71°	12161.0	6740.7	896.4	731.1	698.9	563.6	439.1	379.0	348.9	336.0	333.9
72.5°	11026.3	6042.9	836.3	702.1	643.0	519.6	416.5	360.7	329.6	314.5	311.3
75°	7913.1	3951.7	718.2	625.9	532.5	414.4	365.0	324.2	297.4	279.1	277.0
77.5°	3048.8	1572.7	543.2	520.7	407.9	324.2	300.6	280.2	260.9	242.6	241.5
80°	942.6	703.2	396.1	391.8	295.2	241.5	234.0	228.7	221.1	201.8	197.5
82.5°	503.5	403.7	272.7	253.4	193.2	161.0	169.6	171.8	172.8	152.4	150.3
85°	240.5	213.6	153.5	143.9	112.7	90.2	104.1	112.7	113.8	93.4	87.0
87.5°	114.9	111.6	71.9	54.8	41.9	30.1	36.5	45.1	49.4	35.4	31.1
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)