

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: P319860

Luminaire Tested: **GAN-SA6D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319860
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-SA6D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 36879 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

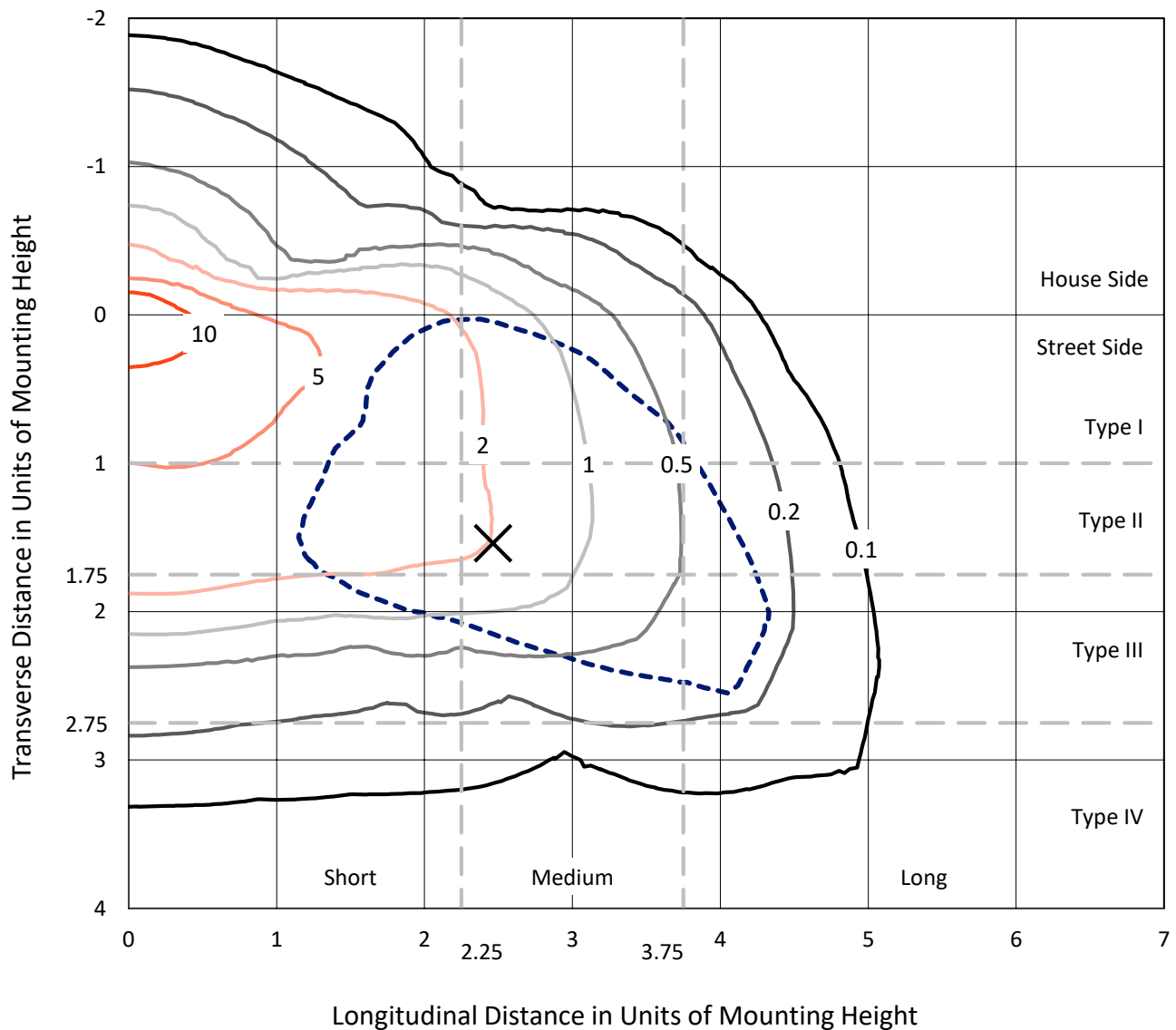
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

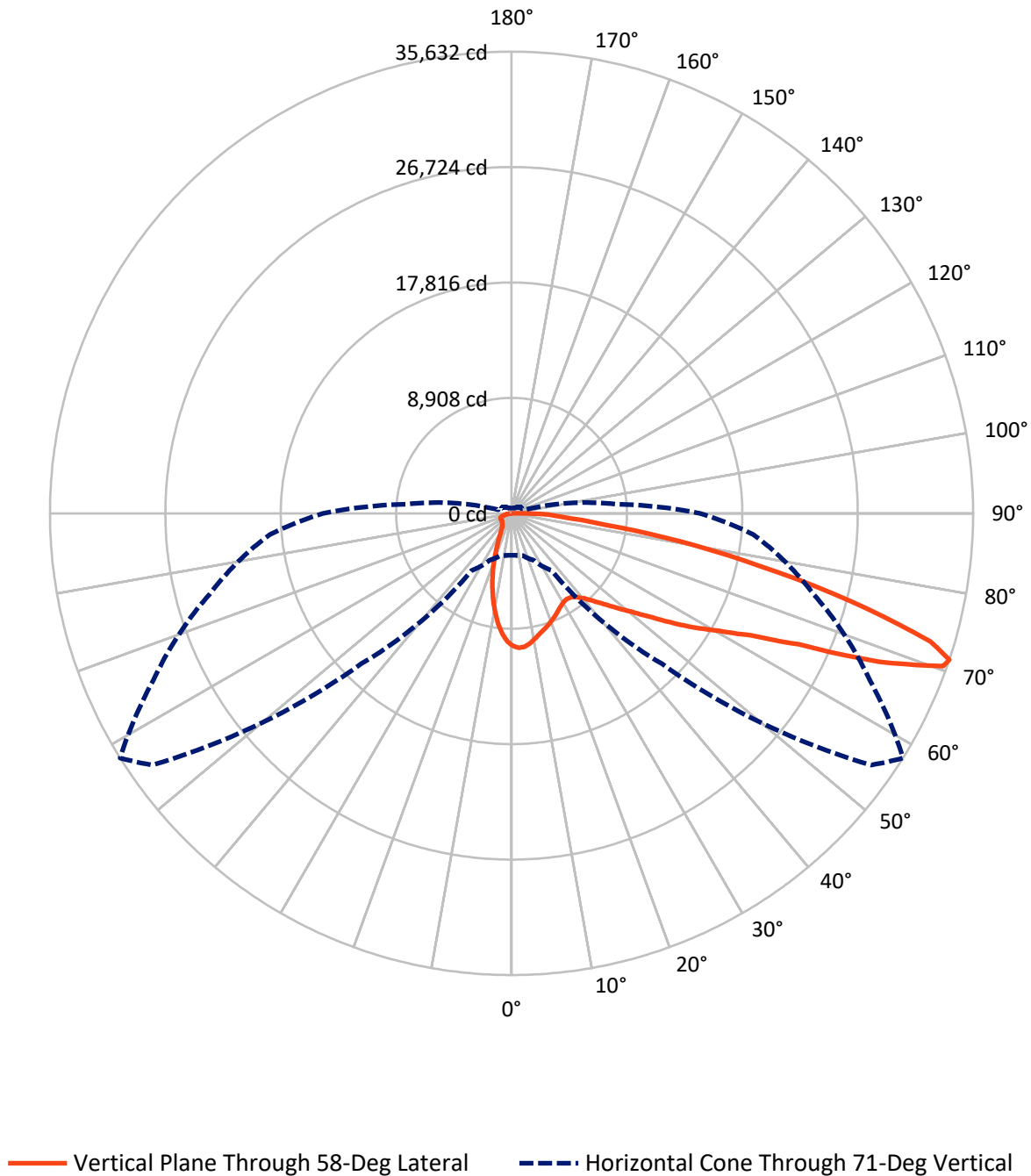
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	5513.7	0.0	5513.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31365.3	0.0	31365.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	36879.0	0.0	36879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.5	2.4
10°-20°	1960.1	5.3
20°-30°	2491.1	6.8
30°-40°	3173.2	8.6
40°-50°	4499.7	12.2
50°-60°	6963.5	18.9
60°-70°	9479.9	25.7
70°-80°	6324.2	17.1
80°-90°	1105.7	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°	36879.0	100.0
0°-180°	36879.0	100.0

Coefficient of Utilization



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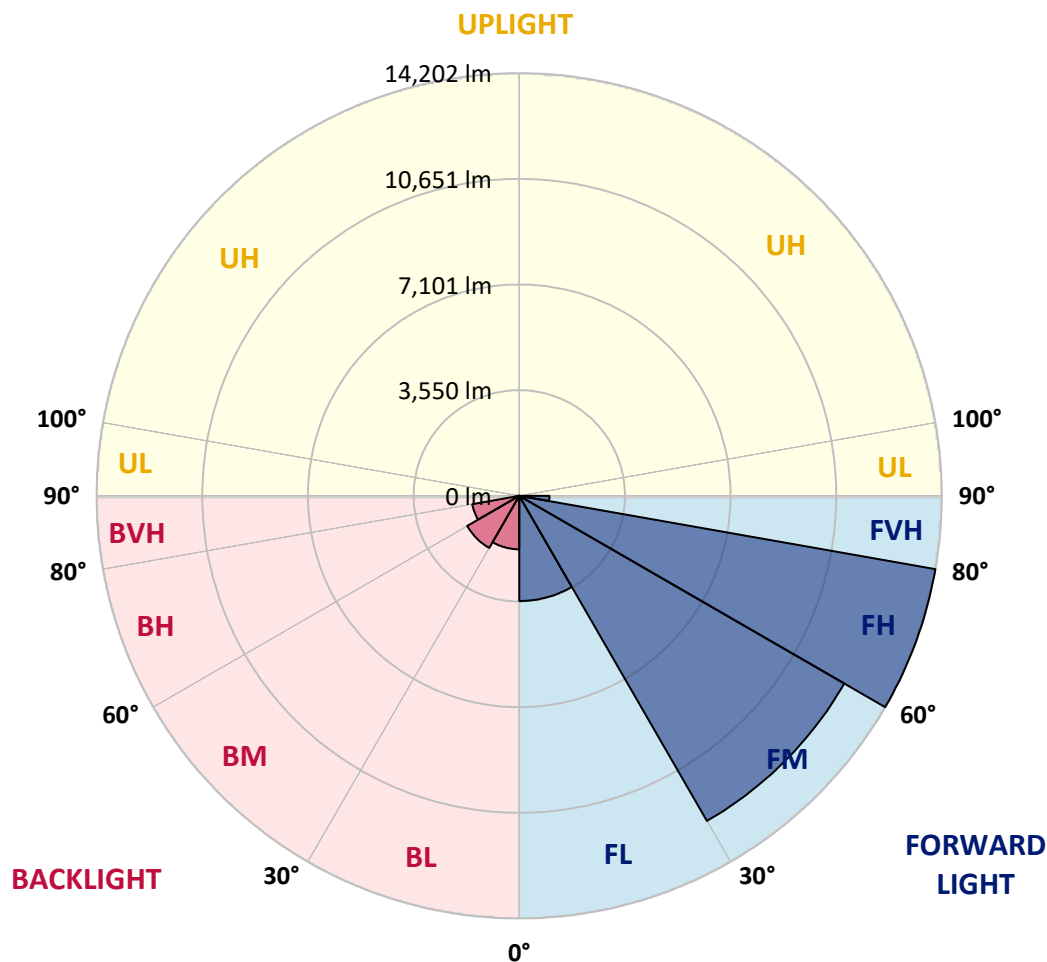
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3535.5	9.6			
FM	(30°-60°)	12614.4	34.2			
FH	(60°-80°)	14201.7	38.5			G5
FVH	(80°-90°)	1013.8	2.7			G5
BL	(0°-30°)	1797.3	4.9	B3/2500		
BM	(30°-60°)	2022.0	5.5	B2/2500		
BH	(60°-80°)	1602.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	91.9	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°	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9
2.5°	10489.0	10474.9	10480.0	10469.7	10445.3	10420.9	10385.0	10391.4	10341.3	10266.8	10174.3
5°	10291.2	10286.0	10324.6	10346.4	10364.4	10350.3	10340.0	10352.8	10279.6	10176.8	10016.3
7.5°	9876.2	9819.7	9868.5	9941.8	10011.1	10063.8	10133.2	10142.2	10095.9	9988.0	9777.3
10°	9286.6	9232.6	9304.6	9418.9	9557.6	9683.5	9823.6	9849.3	9858.3	9760.6	9505.0
12.5°	8675.1	8634.0	8705.9	8866.5	9096.5	9290.4	9514.0	9552.5	9632.2	9566.6	9253.2
15°	8127.9	8112.4	8199.8	8357.8	8622.4	8919.2	9241.6	9312.3	9447.2	9425.3	9056.6
17.5°	7655.1	7651.3	7718.1	7883.8	8176.7	8551.8	8970.6	9090.0	9290.4	9316.1	8894.8
20°	7303.1	7295.4	7341.7	7463.7	7765.6	8190.8	8677.7	8842.1	9131.2	9221.1	8727.8
22.5°	7114.3	7113.0	7114.3	7172.1	7418.7	7814.4	8392.5	8592.9	8975.7	9145.3	8542.8
25°	7082.2	7078.3	7050.1	7043.6	7183.7	7499.7	8109.9	8330.8	8828.0	9092.6	8366.8
27.5°	7165.7	7170.8	7133.6	7073.2	7101.4	7292.8	7864.5	8100.9	8709.8	9082.3	8244.8
30°	7339.1	7336.5	7304.4	7241.5	7186.2	7215.8	7689.8	7926.2	8630.1	9127.3	8161.3
32.5°	7530.5	7544.6	7538.2	7503.5	7421.3	7303.1	7637.1	7868.4	8607.0	9235.2	8125.3
35°	7760.5	7775.9	7822.1	7849.1	7752.7	7562.6	7750.2	7950.6	8673.8	9438.2	8183.1
37.5°	7978.8	8018.7	8148.4	8262.7	8180.5	7968.6	8050.8	8193.4	8880.6	9758.1	8338.5
40°	8230.6	8265.3	8477.3	8720.1	8707.2	8487.6	8535.1	8630.1	9245.5	10216.7	8619.9
42.5°	8478.6	8547.9	8855.0	9199.2	9298.2	9104.2	9180.0	9230.1	9759.3	10824.3	9110.6
45°	8808.7	8883.2	9309.7	9724.7	9955.9	9846.7	9967.4	9986.7	10405.5	11651.6	9823.6
47.5°	9308.4	9393.2	9890.4	10325.9	10679.1	10690.7	10889.8	10882.1	11212.3	12598.4	10721.5
50°	10086.9	10209.0	10616.2	11023.4	11452.5	11691.4	11957.3	11920.1	12179.6	13606.8	11755.7
52.5°	11106.9	11163.4	11465.3	11765.9	12299.0	12834.7	13216.3	13182.9	13276.7	14643.5	12929.8
55°	12164.2	12206.6	12331.2	12495.6	13212.4	14086.0	14892.7	14840.0	14602.4	15720.0	14089.8
57.5°	13114.8	13200.9	13286.9	13355.0	14132.2	15393.7	16607.7	16611.6	16041.2	16881.3	15288.4
60°	13262.5	13338.3	13907.4	14444.4	15705.9	17138.3	18443.4	18404.9	17530.1	18141.5	16624.4
62.5°	11723.5	11894.4	12845.0	14273.5	17221.8	20329.3	20785.3	20737.8	19310.6	19694.7	18180.1
65°	8401.5	8595.5	9742.6	11889.3	16486.9	23845.3	25011.7	24372.0	21738.5	21604.9	20001.7
67.5°	4846.9	4893.2	5390.3	7114.3	12553.4	24029.0	31459.3	30563.9	25508.9	23772.1	20893.2
70°	3584.1	3582.8	3701.0	4378.0	6793.1	19611.2	34525.7	35328.6	29478.4	24485.1	19633.0
71°	3241.1	3245.0	3377.3	3984.9	5380.0	16415.0	33874.4	35631.8	30524.1	24133.1	18720.9
72.5°	2772.2	2785.1	2968.8	3573.8	4525.8	11320.2	31068.8	33812.8	31020.0	23264.7	17293.7
75°	2102.9	2132.5	2386.8	3012.5	4136.5	5741.0	22802.2	27000.4	27556.6	20528.4	12850.2
77.5°	1500.4	1533.8	1821.6	2533.3	3932.3	4326.6	15270.4	19694.7	20279.2	13155.9	5796.3
80°	948.1	987.9	1205.0	2015.6	3694.6	4108.2	9596.2	13238.1	11058.1	4209.7	1474.8
82.5°	556.2	587.1	747.7	1316.7	3017.6	3956.7	5645.9	7337.8	4303.5	1271.8	670.6
85°	322.4	336.6	466.3	838.9	2191.6	3734.4	4148.1	4101.8	1867.9	621.8	317.3
87.5°	150.3	167.0	276.2	438.1	1216.5	2706.7	3278.4	2832.6	1161.3	291.6	149.0
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°	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9	10217.9
2.5°	10129.3	10107.5	10016.3	9935.3	9850.5	9740.1	9618.0	9602.6	9528.1	9542.2	9516.5
5°	9928.9	9873.7	9654.0	9454.9	9219.8	9009.1	8780.4	8675.1	8523.5	8513.2	8474.7
7.5°	9642.4	9539.7	9199.2	8821.6	8443.9	8084.2	7728.3	7494.5	7255.6	7154.1	7145.1
10°	9320.0	9145.3	8644.3	8085.5	7540.8	7015.4	6506.7	6130.3	5791.1	5630.5	5624.1
12.5°	9014.2	8756.0	8068.8	7308.3	6563.2	5882.3	5184.8	4690.2	4265.0	4122.4	4062.0
15°	8754.8	8391.2	7508.7	6536.2	5631.8	4686.3	3892.4	3372.2	2979.1	2842.9	2817.2
17.5°	8503.0	8035.4	6934.4	5756.4	4663.2	3623.9	2828.8	2442.1	2232.7	2177.4	2176.2
20°	8252.5	7669.2	6334.5	4958.7	3726.7	2710.6	2174.9	2001.5	1930.8	1924.4	1914.1
22.5°	7968.6	7281.3	5703.8	4158.3	2908.4	2131.2	1848.6	1779.2	1770.2	1793.3	1793.3
25°	7702.6	6895.9	5064.0	3374.7	2262.2	1777.9	1650.7	1636.6	1661.0	1702.1	1706.0
27.5°	7454.7	6524.6	4439.7	2678.5	1812.6	1566.0	1513.3	1530.0	1573.7	1621.2	1622.5
30°	7250.5	6173.9	3833.3	2110.6	1531.3	1408.0	1399.0	1432.4	1479.9	1517.1	1526.1
32.5°	7092.4	5874.6	3247.5	1697.0	1347.6	1289.8	1297.5	1325.7	1355.3	1375.8	1390.0
35°	7019.2	5617.7	2706.7	1431.1	1230.7	1198.6	1208.8	1224.3	1237.1	1252.5	1264.1
37.5°	7032.1	5418.6	2223.7	1265.4	1152.3	1135.6	1135.6	1135.6	1135.6	1143.3	1144.6
40°	7151.5	5304.2	1830.6	1160.0	1099.6	1081.7	1067.5	1054.7	1044.4	1049.5	1047.0
42.5°	7457.3	5294.0	1542.8	1093.2	1057.3	1027.7	999.4	981.5	968.6	973.7	976.3
45°	7976.3	5422.4	1348.9	1045.7	1017.4	972.5	936.5	917.2	908.2	924.9	927.5
47.5°	8648.1	5702.5	1230.7	1011.0	980.2	921.1	882.5	864.6	867.1	891.5	898.0
50°	9514.0	6157.2	1174.2	989.2	954.5	877.4	837.6	822.2	829.9	864.6	872.3
52.5°	10464.6	6812.4	1180.6	982.7	937.8	845.3	802.9	784.9	797.8	829.9	836.3
55°	11561.7	7599.9	1287.2	991.7	913.4	824.7	774.6	743.8	754.1	783.6	788.8
57.5°	12780.8	8501.7	1501.7	989.2	882.5	805.5	745.1	698.8	706.5	724.5	729.7
60°	14050.0	9591.0	1834.5	996.9	868.4	782.3	705.3	647.5	644.9	660.3	662.9
62.5°	15573.6	10851.3	2214.7	1002.0	877.4	752.8	652.6	596.1	588.4	592.2	594.8
65°	17143.4	11763.4	2072.1	981.5	905.7	728.4	606.3	546.0	531.8	529.3	530.6
67.5°	17192.2	10785.8	1452.9	940.3	917.2	715.5	571.7	503.6	480.5	471.5	470.2
70°	15418.1	8762.5	1131.8	896.7	871.0	695.0	539.5	468.9	434.2	420.1	418.8
71°	14552.3	8066.2	1072.7	874.8	836.3	674.4	525.4	453.5	417.5	402.1	399.5
72.5°	13194.4	7231.2	1000.7	840.1	769.5	621.8	498.4	431.6	394.4	376.4	372.5
75°	9469.0	4728.7	859.4	748.9	637.2	495.9	436.8	388.0	355.8	334.0	331.4
77.5°	3648.3	1882.0	650.0	623.0	488.2	388.0	359.7	335.3	312.2	290.3	289.0
80°	1127.9	841.4	474.0	468.9	353.3	289.0	280.0	273.6	264.6	241.5	236.4
82.5°	602.5	483.0	326.3	303.2	231.2	192.7	203.0	205.5	206.8	182.4	179.8
85°	287.8	255.6	183.7	172.1	134.9	107.9	124.6	134.9	136.2	111.8	104.1
87.5°	137.5	133.6	86.1	65.5	50.1	36.0	43.7	54.0	59.1	42.4	37.3
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)