

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: P319852

Luminaire Tested: **GAN-SA8C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319852
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-SA8C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 45048 lumens
Efficiency: N/A
Efficacy: 101.2 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): 445
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

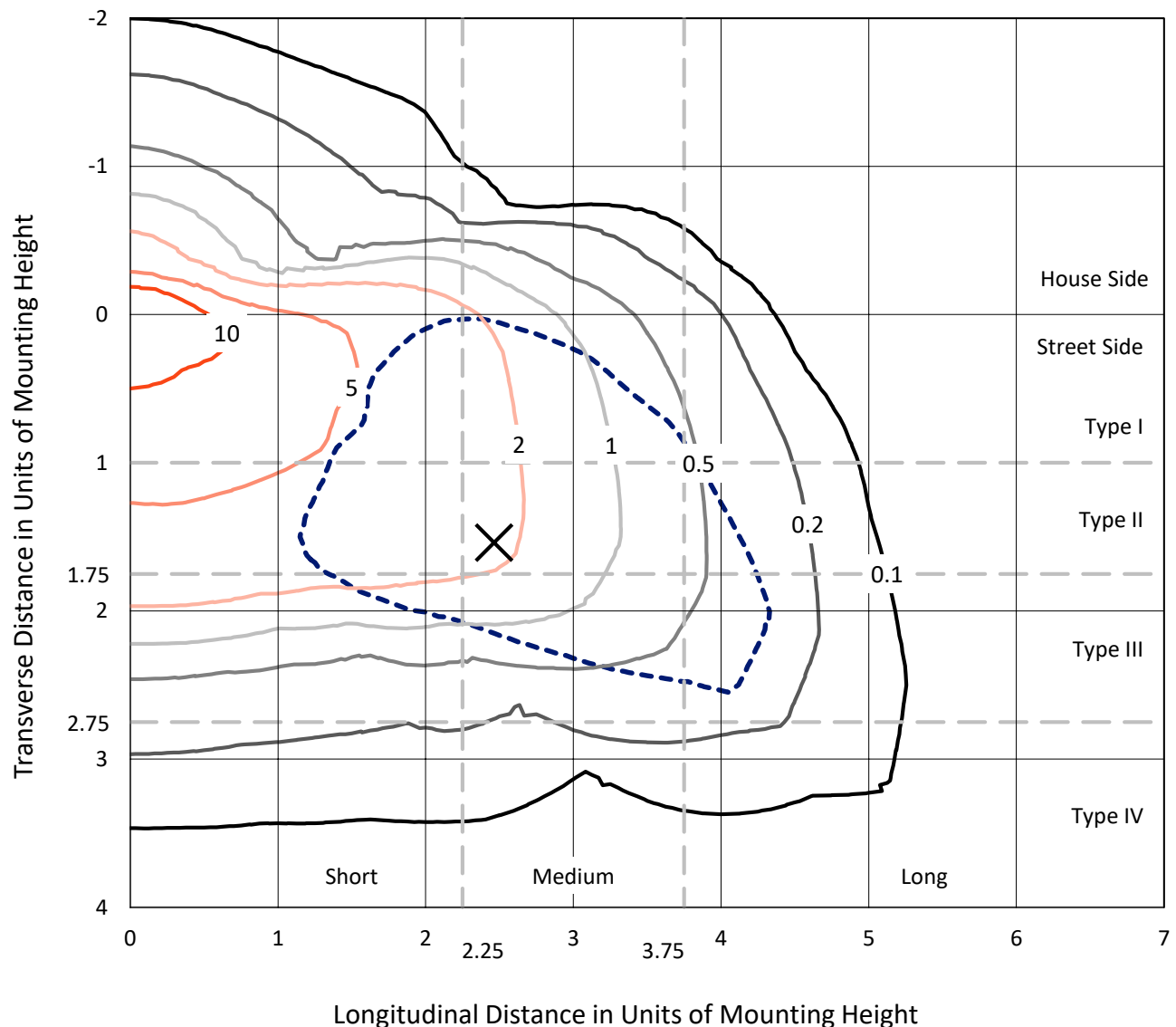


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Iso-Footcandle Lines of Horizontal Illumination

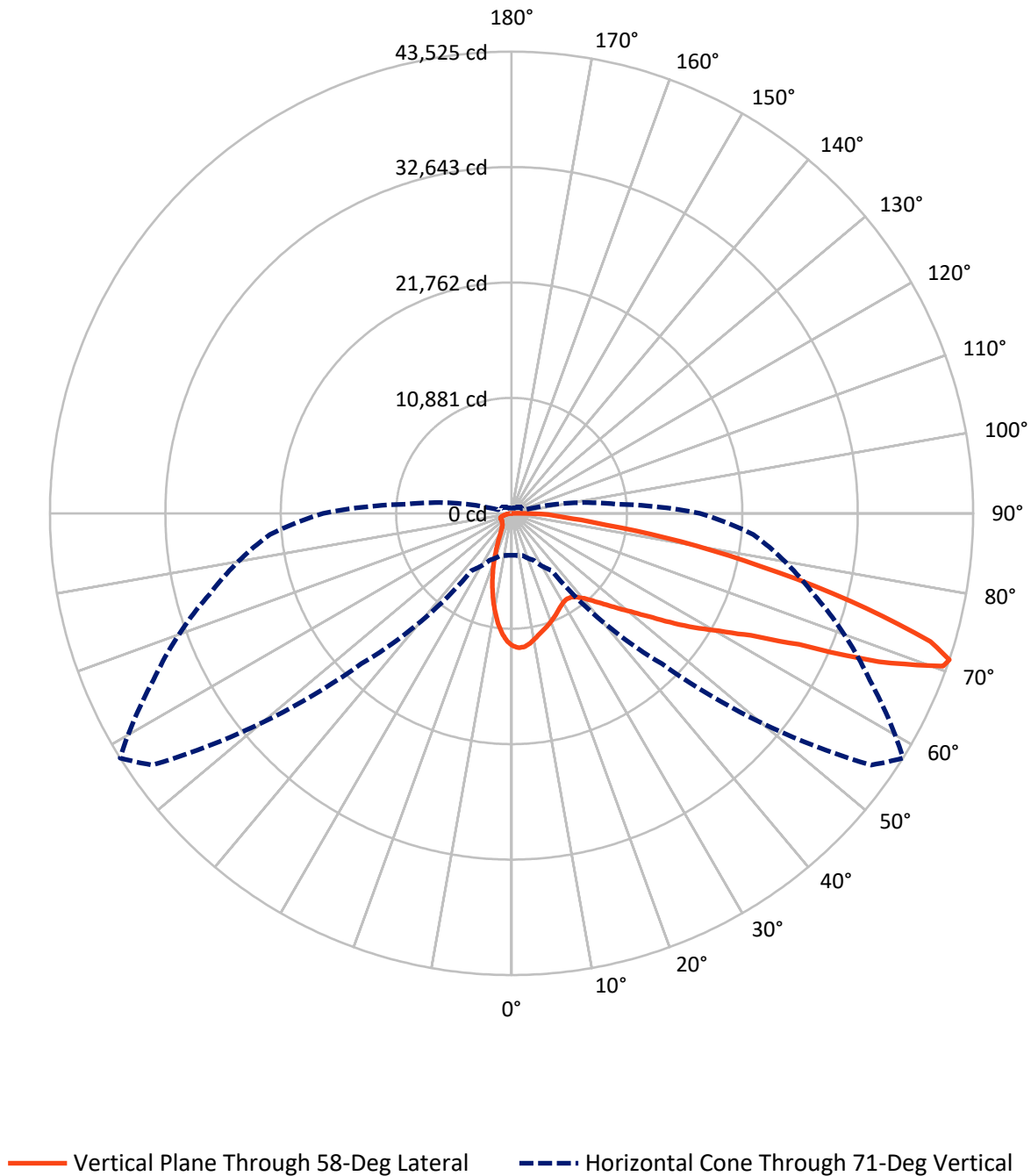
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 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	6735.0	0.0	6735.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38313.0	0.0	38313.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	45048.0	0.0	45048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.8	2.4
10°-20°	2394.3	5.3
20°-30°	3042.9	6.8
30°-40°	3876.1	8.6
40°-50°	5496.5	12.2
50°-60°	8506.0	18.9
60°-70°	11579.8	25.7
70°-80°	7725.1	17.1
80°-90°	1350.6	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°	45048.0	100.0
0°-180°	45048.0	100.0

Coefficient of Utilization



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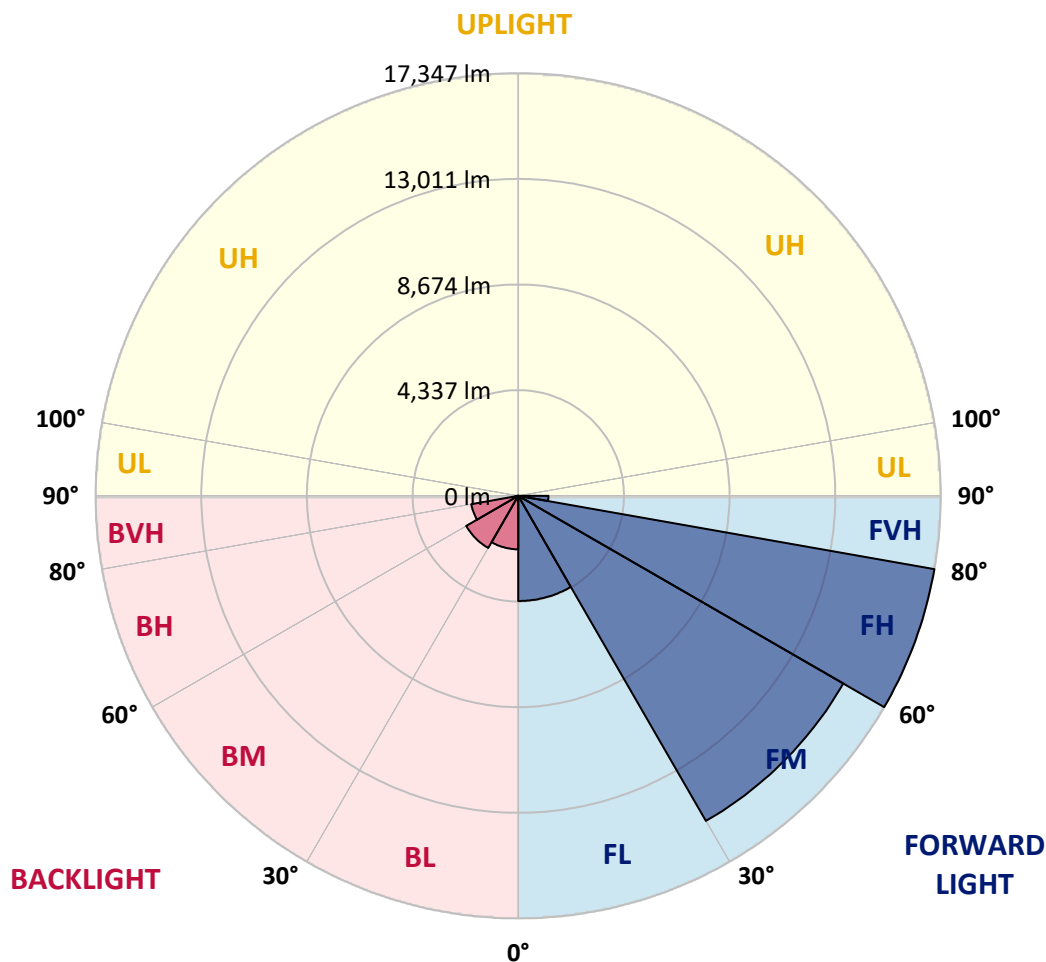
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4318.6	9.6			
FM	(30°-60°)	15408.6	34.2			
FH	(60°-80°)	17347.4	38.5			G5
FVH	(80°-90°)	1238.4	2.7			G5
BL	(0°-30°)	2195.4	4.9	B3/2500		
BM	(30°-60°)	2469.9	5.5	B2/2500		
BH	(60°-80°)	1957.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	112.2	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3
2.5°	12812.4	12795.1	12801.4	12788.9	12759.1	12729.2	12685.3	12693.1	12631.9	12540.9	12428.0
5°	12570.8	12564.5	12611.5	12638.2	12660.2	12642.9	12630.4	12646.1	12556.6	12431.1	12234.9
7.5°	12063.9	11994.9	12054.5	12143.9	12228.7	12293.0	12377.7	12388.7	12332.2	12200.4	11943.1
10°	11343.6	11277.7	11365.6	11505.3	11674.7	11828.5	11999.6	12031.0	12041.9	11922.7	11610.4
12.5°	10596.7	10546.5	10634.4	10830.5	11111.4	11348.4	11621.4	11668.5	11765.8	11685.7	11302.8
15°	9928.2	9909.4	10016.1	10209.1	10532.4	10894.9	11288.7	11375.0	11539.8	11513.1	11062.8
17.5°	9350.8	9346.1	9427.7	9630.1	9987.9	10446.1	10957.6	11103.6	11348.4	11379.7	10865.0
20°	8920.8	8911.4	8967.9	9117.0	9485.7	10005.1	10599.9	10800.7	11153.8	11263.6	10661.1
22.5°	8690.2	8688.6	8690.2	8760.8	9062.1	9545.4	10251.5	10496.3	10963.9	11171.0	10435.1
25°	8650.9	8646.2	8611.7	8603.8	8774.9	9160.9	9906.3	10176.2	10783.4	11106.7	10220.1
27.5°	8752.9	8759.2	8713.7	8639.9	8674.5	8908.3	9606.6	9895.3	10639.1	11094.1	10071.0
30°	8964.8	8961.6	8922.4	8845.5	8778.0	8814.1	9393.1	9681.9	10541.8	11149.1	9969.0
32.5°	9198.6	9215.8	9208.0	9165.6	9065.2	8920.8	9328.8	9611.3	10513.5	11280.9	9925.1
35°	9479.5	9498.3	9554.8	9587.7	9470.0	9237.8	9466.9	9711.7	10595.1	11528.8	9995.7
37.5°	9746.2	9794.9	9953.3	10093.0	9992.6	9733.7	9834.1	10008.3	10847.8	11919.5	10185.6
40°	10053.8	10096.1	10355.1	10651.6	10635.9	10367.6	10425.7	10541.8	11293.4	12479.7	10529.2
42.5°	10356.6	10441.4	10816.4	11236.9	11357.8	11120.8	11213.4	11274.6	11921.1	13222.0	11128.7
45°	10759.9	10850.9	11371.9	11878.7	12161.2	12027.8	12175.3	12198.9	12710.4	14232.5	11999.6
47.5°	11370.3	11473.9	12081.2	12613.1	13044.6	13058.8	13302.0	13292.6	13695.9	15389.0	13096.4
50°	12321.3	12470.3	12967.8	13465.2	13989.3	14281.2	14606.0	14560.5	14877.5	16620.8	14359.6
52.5°	13567.2	13636.2	14005.0	14372.2	15023.4	15677.7	16143.8	16103.0	16217.5	17887.2	15793.9
55°	14858.6	14910.4	15062.6	15263.5	16139.1	17206.1	18191.6	18127.2	17836.9	19202.1	17210.8
57.5°	16019.8	16125.0	16230.1	16313.3	17262.6	18803.6	20286.4	20291.1	19594.4	20620.7	18674.9
60°	16200.3	16292.9	16988.0	17643.9	19184.9	20934.5	22528.8	22481.7	21413.1	22160.0	20306.8
62.5°	14320.4	14529.1	15690.3	17435.2	21036.5	24832.4	25389.4	25331.4	23588.0	24057.2	22207.1
65°	10262.5	10499.4	11900.7	14522.8	20138.9	29127.2	30552.1	29770.6	26553.8	26390.6	24432.2
67.5°	5920.5	5977.0	6584.3	8690.2	15334.1	29351.6	38427.8	37334.1	31159.3	29037.8	25521.2
70°	4378.0	4376.5	4520.8	5347.8	8297.9	23955.2	42173.4	43154.2	36008.1	29908.7	23981.9
71°	3959.1	3963.8	4125.4	4867.6	6571.8	20051.1	41377.9	43524.5	37285.4	29478.7	22867.8
72.5°	3386.3	3402.0	3626.4	4365.5	5528.2	13827.7	37950.8	41302.6	37891.1	28418.0	21124.4
75°	2568.8	2604.8	2915.5	3679.7	5052.8	7012.7	27853.1	32981.2	33660.6	25075.6	15696.6
77.5°	1832.8	1873.6	2225.1	3094.4	4803.3	5285.0	18652.9	24057.2	24771.2	16070.0	7080.2
80°	1158.1	1206.7	1471.9	2462.1	4513.0	5018.3	11721.8	16170.5	13507.6	5142.2	1801.4
82.5°	679.5	717.1	913.3	1608.4	3686.0	4833.1	6896.6	8963.2	5256.8	1553.5	819.1
85°	393.9	411.1	569.6	1024.7	2677.0	4561.6	5066.9	5010.4	2281.6	759.5	387.6
87.5°	183.6	204.0	337.4	535.1	1486.0	3306.3	4004.6	3460.1	1418.5	356.2	182.0
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°	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3	12481.3
2.5°	12373.0	12346.4	12234.9	12136.1	12032.5	11897.6	11748.5	11729.7	11638.7	11655.9	11624.5
5°	12128.2	12060.8	11792.4	11549.2	11262.0	11004.7	10725.4	10596.7	10411.6	10399.0	10351.9
7.5°	11778.3	11652.8	11236.9	10775.6	10314.3	9874.9	9440.2	9154.6	8862.8	8738.8	8727.8
10°	11384.4	11171.0	10559.1	9876.5	9211.1	8569.3	7947.9	7488.2	7073.9	6877.7	6869.9
12.5°	11011.0	10695.6	9856.1	8927.1	8017.0	7185.3	6333.2	5729.1	5209.7	5035.5	4961.8
15°	10694.0	10249.9	9171.9	7984.0	6879.3	5724.4	4754.6	4119.1	3638.9	3472.6	3441.2
17.5°	10386.4	9815.3	8470.5	7031.5	5696.1	4426.7	3455.3	2983.0	2727.2	2659.8	2658.2
20°	10080.5	9368.0	7737.7	6057.1	4552.2	3311.0	2656.6	2444.8	2358.5	2350.6	2338.1
22.5°	9733.7	8894.1	6967.2	5079.5	3552.6	2603.3	2258.1	2173.3	2162.3	2190.6	2190.6
25°	9408.8	8423.4	6185.7	4122.3	2763.3	2171.8	2016.4	1999.1	2029.0	2079.2	2083.9
27.5°	9106.0	7969.9	5423.1	3271.8	2214.1	1912.8	1848.5	1868.9	1922.3	1980.3	1981.9
30°	8856.5	7541.5	4682.5	2578.2	1870.5	1719.8	1708.8	1749.6	1807.7	1853.2	1864.2
32.5°	8663.5	7175.9	3966.9	2072.9	1646.1	1575.5	1584.9	1619.4	1655.5	1680.6	1697.9
35°	8574.0	6862.1	3306.3	1748.1	1503.3	1464.1	1476.6	1495.4	1511.1	1530.0	1544.1
37.5°	8589.7	6618.8	2716.3	1545.6	1407.6	1387.2	1387.2	1387.2	1387.2	1396.6	1398.1
40°	8735.7	6479.2	2236.1	1417.0	1343.2	1321.3	1304.0	1288.3	1275.7	1282.0	1278.9
42.5°	9109.1	6466.6	1884.6	1335.4	1291.4	1255.3	1220.8	1198.9	1183.2	1189.4	1192.6
45°	9743.1	6623.5	1647.6	1277.3	1242.8	1187.9	1143.9	1120.4	1109.4	1129.8	1133.0
47.5°	10563.8	6965.6	1503.3	1234.9	1197.3	1125.1	1078.0	1056.1	1059.2	1089.0	1096.9
50°	11621.4	7521.1	1434.2	1208.3	1165.9	1071.8	1023.1	1004.3	1013.7	1056.1	1065.5
52.5°	12782.6	8321.4	1442.1	1200.4	1145.5	1032.5	980.7	958.8	974.5	1013.7	1021.5
55°	14122.7	9283.3	1572.3	1211.4	1115.7	1007.4	946.2	908.6	921.1	957.2	963.5
57.5°	15611.8	10384.9	1834.4	1208.3	1078.0	983.9	910.1	853.6	863.1	885.0	891.3
60°	17162.2	11715.5	2240.8	1217.7	1060.8	955.6	861.5	790.9	787.7	806.6	809.7
62.5°	19023.2	13254.9	2705.3	1224.0	1071.8	919.5	797.1	728.1	718.7	723.4	726.5
65°	20940.8	14369.0	2531.1	1198.9	1106.3	889.7	740.7	666.9	649.6	646.5	648.1
67.5°	21000.4	13174.9	1774.7	1148.6	1120.4	874.0	698.3	615.1	586.9	575.9	574.3
70°	18833.4	10703.4	1382.5	1095.3	1063.9	848.9	659.1	572.8	530.4	513.1	511.6
71°	17775.7	9852.9	1310.3	1068.6	1021.5	823.8	641.8	553.9	510.0	491.2	488.0
72.5°	16117.1	8832.9	1222.4	1026.2	939.9	759.5	608.8	527.2	481.7	459.8	455.1
75°	11566.5	5776.2	1049.8	914.8	778.3	605.7	533.5	473.9	434.7	408.0	404.9
77.5°	4456.5	2298.9	794.0	761.1	596.3	473.9	439.4	409.6	381.3	354.6	353.1
80°	1377.7	1027.8	579.0	572.8	431.5	353.1	342.1	334.2	323.3	295.0	288.7
82.5°	735.9	590.0	398.6	370.3	282.5	235.4	247.9	251.1	252.6	222.8	219.7
85°	351.5	312.3	224.4	210.3	164.8	131.8	152.2	164.8	166.3	136.5	127.1
87.5°	167.9	163.2	105.1	80.0	61.2	43.9	53.4	65.9	72.2	51.8	45.5
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)