

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: P319813

Luminaire Tested: **GAN-SA9C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319813
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-SA9C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 46487 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

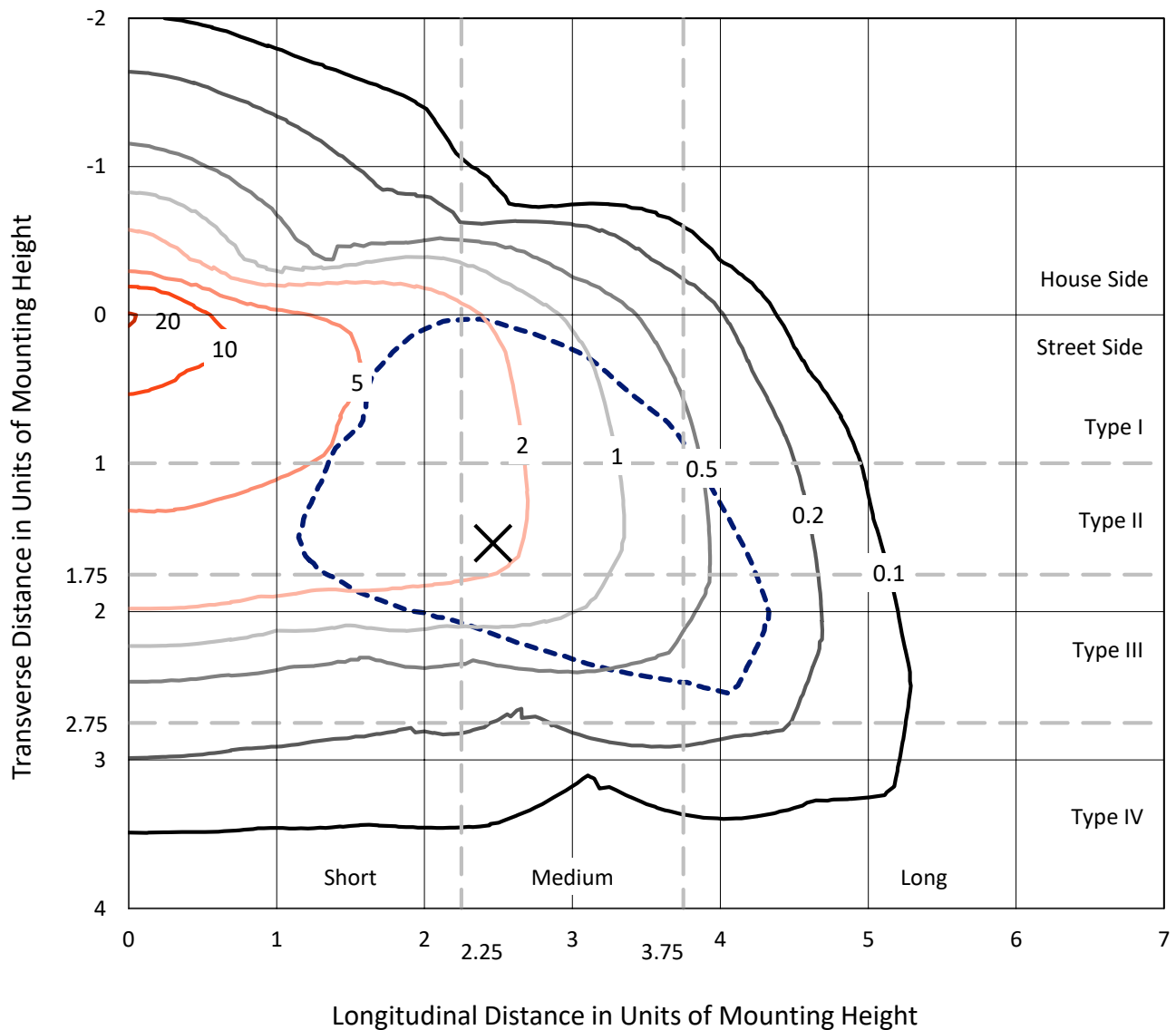


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Iso-Footcandle Lines of Horizontal Illumination

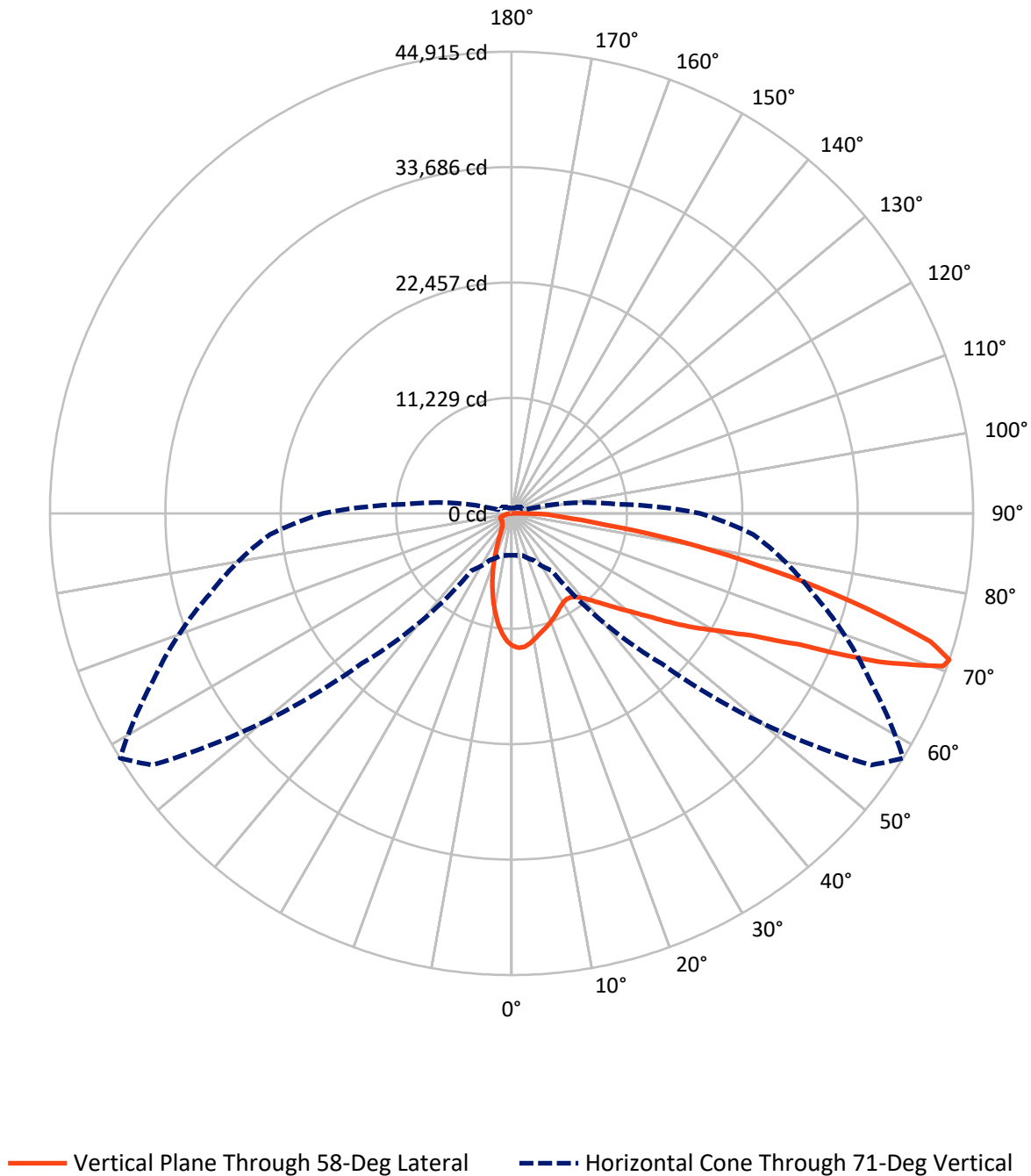
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	6950.1	0.0	6950.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39536.9	0.0	39536.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	46487.0	0.0	46487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1111.2	2.4
10°-20°	2470.8	5.3
20°-30°	3140.1	6.8
30°-40°	3999.9	8.6
40°-50°	5672.0	12.2
50°-60°	8777.7	18.9
60°-70°	11949.7	25.7
70°-80°	7971.8	17.1
80°-90°	1393.8	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°	46487.0	100.0
0°-180°	46487.0	100.0

Coefficient of Utilization



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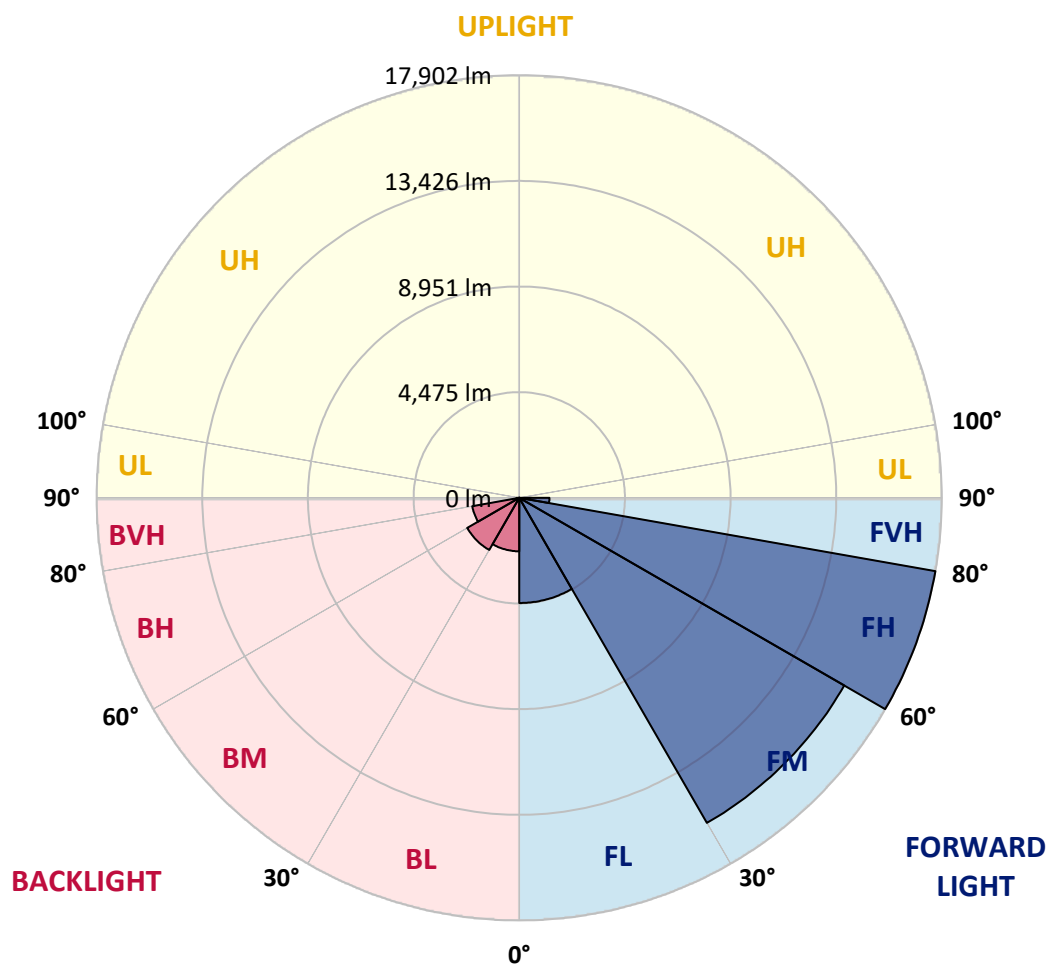
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4456.5	9.6			
FM	(30°-60°)	15900.8	34.2			
FH	(60°-80°)	17901.6	38.5			G5
FVH	(80°-90°)	1278.0	2.7			G5
BL	(0°-30°)	2265.5	4.9	B3/2500		
BM	(30°-60°)	2548.8	5.5	B3/5000		
BH	(60°-80°)	2020.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	115.8	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°	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0
2.5°	13221.7	13203.9	13210.3	13197.4	13166.6	13135.9	13090.5	13098.6	13035.5	12941.5	12825.0
5°	12972.3	12965.8	13014.4	13041.9	13064.6	13046.8	13033.8	13050.0	12957.7	12828.2	12625.8
7.5°	12449.3	12378.0	12439.6	12531.9	12619.3	12685.7	12773.1	12784.5	12726.2	12590.1	12324.6
10°	11706.0	11638.0	11728.7	11872.8	12047.7	12206.4	12382.9	12415.3	12426.6	12303.5	11981.3
12.5°	10935.2	10883.4	10974.1	11176.5	11466.3	11710.9	11992.6	12041.2	12141.6	12059.0	11663.9
15°	10245.4	10226.0	10336.1	10535.2	10868.8	11242.9	11649.3	11738.4	11908.4	11880.9	11416.1
17.5°	9649.5	9644.6	9728.8	9937.7	10306.9	10779.8	11307.7	11458.3	11710.9	11743.2	11212.1
20°	9205.8	9196.1	9254.4	9408.2	9788.7	10324.7	10938.5	11145.7	11510.1	11623.4	11001.6
22.5°	8967.7	8966.1	8967.7	9040.6	9351.5	9850.3	10579.0	10831.6	11314.1	11527.9	10768.4
25°	8927.3	8922.4	8886.8	8878.7	9055.2	9453.5	10222.7	10501.2	11127.9	11461.5	10546.6
27.5°	9032.5	9039.0	8992.0	8915.9	8951.6	9192.8	9913.4	10211.4	10978.9	11448.5	10392.7
30°	9251.1	9247.9	9207.4	9128.1	9058.4	9095.7	9693.2	9991.2	10878.5	11505.2	10287.5
32.5°	9492.4	9510.2	9502.1	9458.4	9354.8	9205.8	9626.8	9918.3	10849.4	11641.2	10242.1
35°	9782.3	9801.7	9860.0	9894.0	9772.5	9532.9	9769.3	10021.9	10933.6	11897.1	10315.0
37.5°	10057.5	10107.7	10271.3	10415.4	10311.8	10044.6	10148.2	10328.0	11194.3	12300.3	10511.0
40°	10374.9	10418.7	10685.8	10991.9	10975.7	10698.8	10758.7	10878.5	11654.2	12878.4	10865.6
42.5°	10687.5	10774.9	11161.9	11595.9	11720.6	11476.1	11571.6	11634.8	12301.9	13644.3	11484.2
45°	11103.6	11197.5	11735.2	12258.2	12549.7	12412.0	12564.2	12588.5	13116.4	14687.2	12382.9
47.5°	11733.5	11840.4	12467.1	13016.0	13461.3	13475.9	13726.9	13717.2	14133.4	15880.6	13514.8
50°	12714.8	12868.7	13382.0	13895.3	14436.2	14737.4	15072.6	15025.6	15352.7	17151.8	14818.3
52.5°	14000.6	14071.8	14452.4	14831.3	15503.3	16178.5	16659.5	16617.4	16735.6	18458.5	16298.4
55°	15333.3	15386.7	15543.8	15751.0	16654.6	17755.8	18772.7	18706.3	18406.7	19815.5	17760.6
57.5°	16531.6	16640.0	16748.5	16834.4	17814.0	19404.2	20934.5	20939.3	20220.3	21279.4	19271.4
60°	16717.8	16813.3	17530.7	18207.5	19797.7	21603.2	23248.5	23199.9	22097.1	22867.9	20955.5
62.5°	14777.8	14993.2	16191.5	17992.2	21708.5	25625.6	26200.5	26140.6	24341.5	24825.7	22916.5
65°	10590.3	10834.8	12280.9	14986.7	20782.2	30057.7	31528.0	30721.6	27402.0	27233.6	25212.7
67.5°	6109.7	6168.0	6794.6	8967.7	15823.9	30289.2	39655.3	38526.7	32154.7	29965.4	26336.5
70°	4517.9	4516.3	4665.2	5518.6	8562.9	24720.4	43520.6	44532.7	37158.3	30864.1	24747.9
71°	4085.5	4090.4	4257.2	5023.1	6781.7	20691.6	42699.6	44914.9	38476.5	30420.4	23598.2
72.5°	3494.5	3510.7	3742.2	4504.9	5704.8	14269.4	39163.1	42621.9	39101.5	29325.7	21799.2
75°	2650.8	2688.1	3008.7	3797.3	5214.2	7236.7	28742.8	34034.7	34735.9	25876.6	16198.0
77.5°	1891.4	1933.5	2296.2	3193.3	4956.7	5453.8	19248.8	24825.7	25562.5	16583.4	7306.3
80°	1195.1	1245.3	1518.9	2540.7	4657.1	5178.6	12096.3	16687.0	13939.0	5306.5	1859.0
82.5°	701.2	740.0	942.4	1659.8	3803.8	4987.5	7116.9	9249.5	5424.7	1603.1	845.3
85°	406.4	424.3	587.8	1057.4	2762.5	4707.3	5228.8	5170.5	2354.5	783.7	400.0
87.5°	189.5	210.5	348.2	552.2	1533.5	3411.9	4132.5	3570.6	1463.9	367.6	187.8
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°	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0	12880.0
2.5°	12768.3	12740.7	12625.8	12523.8	12416.9	12277.6	12123.8	12104.4	12010.4	12028.2	11995.9
5°	12515.7	12446.0	12169.1	11918.1	11621.8	11356.2	11068.0	10935.2	10744.1	10731.2	10682.6
7.5°	12154.6	12025.0	11595.9	11119.8	10643.7	10190.3	9741.8	9447.1	9145.9	9017.9	9006.6
10°	11748.1	11527.9	10896.3	10191.9	9505.4	8843.1	8201.8	7727.4	7299.9	7097.4	7089.3
12.5°	11362.7	11037.2	10170.9	9212.3	8273.1	7414.8	6535.5	5912.1	5376.1	5196.4	5120.3
15°	11035.6	10577.3	9464.9	8239.1	7099.1	5907.2	4906.5	4250.7	3755.2	3583.5	3551.2
17.5°	10718.2	10128.8	8741.0	7256.1	5878.1	4568.1	3565.7	3078.3	2814.4	2744.7	2743.1
20°	10402.5	9667.3	7984.8	6250.5	4697.6	3416.7	2741.5	2522.9	2433.8	2425.7	2412.8
22.5°	10044.6	9178.3	7189.7	5241.7	3666.1	2686.4	2330.2	2242.7	2231.4	2260.6	2260.6
25°	9709.4	8692.5	6383.3	4253.9	2851.6	2241.1	2080.8	2063.0	2093.8	2145.6	2150.4
27.5°	9396.9	8224.5	5596.3	3376.3	2284.8	1973.9	1907.5	1928.6	1983.7	2043.6	2045.2
30°	9139.4	7782.4	4832.0	2660.5	1930.2	1774.8	1763.4	1805.5	1865.4	1912.4	1923.7
32.5°	8940.2	7405.1	4093.6	2139.1	1698.7	1625.8	1635.5	1671.1	1708.4	1734.3	1752.1
35°	8847.9	7081.3	3411.9	1803.9	1551.3	1510.8	1523.8	1543.2	1559.4	1578.8	1593.4
37.5°	8864.1	6830.3	2803.0	1595.0	1452.5	1431.5	1431.5	1431.5	1431.5	1441.2	1442.8
40°	9014.7	6686.1	2307.5	1462.2	1386.1	1363.5	1345.6	1329.5	1316.5	1323.0	1319.7
42.5°	9400.1	6673.2	1944.8	1378.0	1332.7	1295.4	1259.8	1237.2	1221.0	1227.4	1230.7
45°	10054.3	6835.1	1700.3	1318.1	1282.5	1225.8	1180.5	1156.2	1144.9	1165.9	1169.1
47.5°	10901.2	7188.1	1551.3	1274.4	1235.5	1161.0	1112.5	1089.8	1093.0	1123.8	1131.9
50°	11992.6	7761.4	1480.1	1246.9	1203.1	1106.0	1055.8	1036.4	1046.1	1089.8	1099.5
52.5°	13190.9	8587.2	1488.1	1238.8	1182.1	1065.5	1012.1	989.4	1005.6	1046.1	1054.2
55°	14573.8	9579.8	1622.6	1250.1	1151.3	1039.6	976.4	937.6	950.5	987.8	994.3
57.5°	16110.5	10716.6	1893.0	1246.9	1112.5	1015.3	939.2	880.9	890.6	913.3	919.8
60°	17710.4	12089.8	2312.4	1256.6	1094.7	986.2	889.0	816.1	812.9	832.3	835.6
62.5°	19630.9	13678.3	2791.7	1263.1	1106.0	948.9	822.6	751.4	741.6	746.5	749.7
65°	21609.7	14828.0	2612.0	1237.2	1141.6	918.1	764.3	688.2	670.4	667.2	668.8
67.5°	21671.3	13595.7	1831.4	1185.3	1156.2	902.0	720.6	634.8	605.6	594.3	592.7
70°	19435.0	11045.3	1426.6	1130.3	1097.9	876.0	680.1	591.0	547.3	529.5	527.9
71°	18343.6	10167.7	1352.1	1102.8	1054.2	850.1	662.3	571.6	526.3	506.8	503.6
72.5°	16632.0	9115.1	1261.4	1059.0	970.0	783.7	628.3	544.1	497.1	474.5	469.6
75°	11935.9	5960.7	1083.3	944.1	803.2	625.1	550.6	489.0	448.5	421.0	417.8
77.5°	4598.8	2372.3	819.4	785.4	615.3	489.0	453.4	422.6	393.5	366.0	364.3
80°	1421.8	1060.6	597.5	591.0	445.3	364.3	353.0	344.9	333.6	304.4	298.0
82.5°	759.5	608.9	411.3	382.2	291.5	242.9	255.9	259.1	260.7	229.9	226.7
85°	362.7	322.2	231.6	217.0	170.0	136.0	157.1	170.0	171.6	140.9	131.2
87.5°	173.3	168.4	108.5	82.6	63.2	45.3	55.1	68.0	74.5	53.4	47.0
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)