

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: McGRAW-EDISON

Report Number: P192843

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30920.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

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: 25 FT

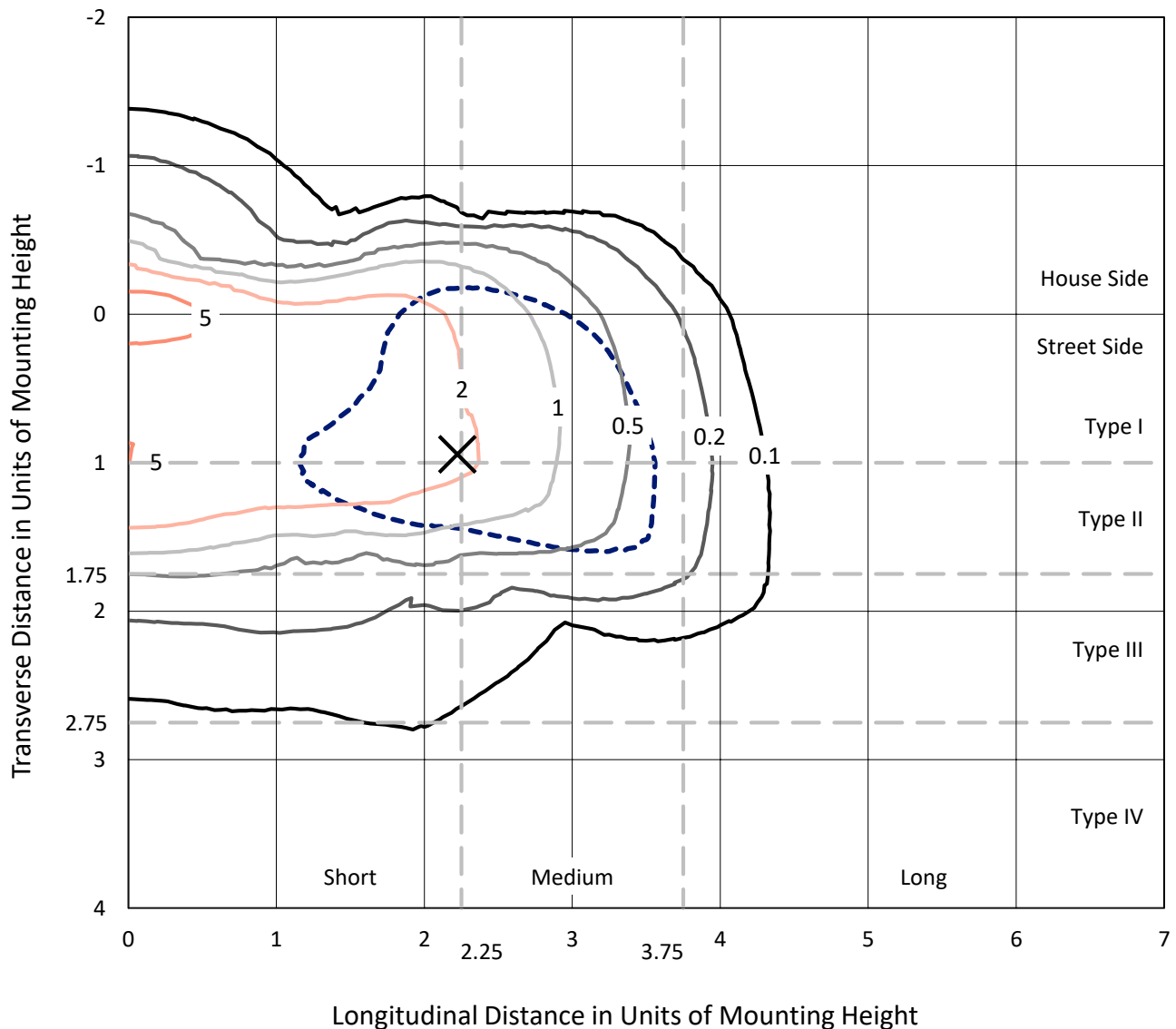


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

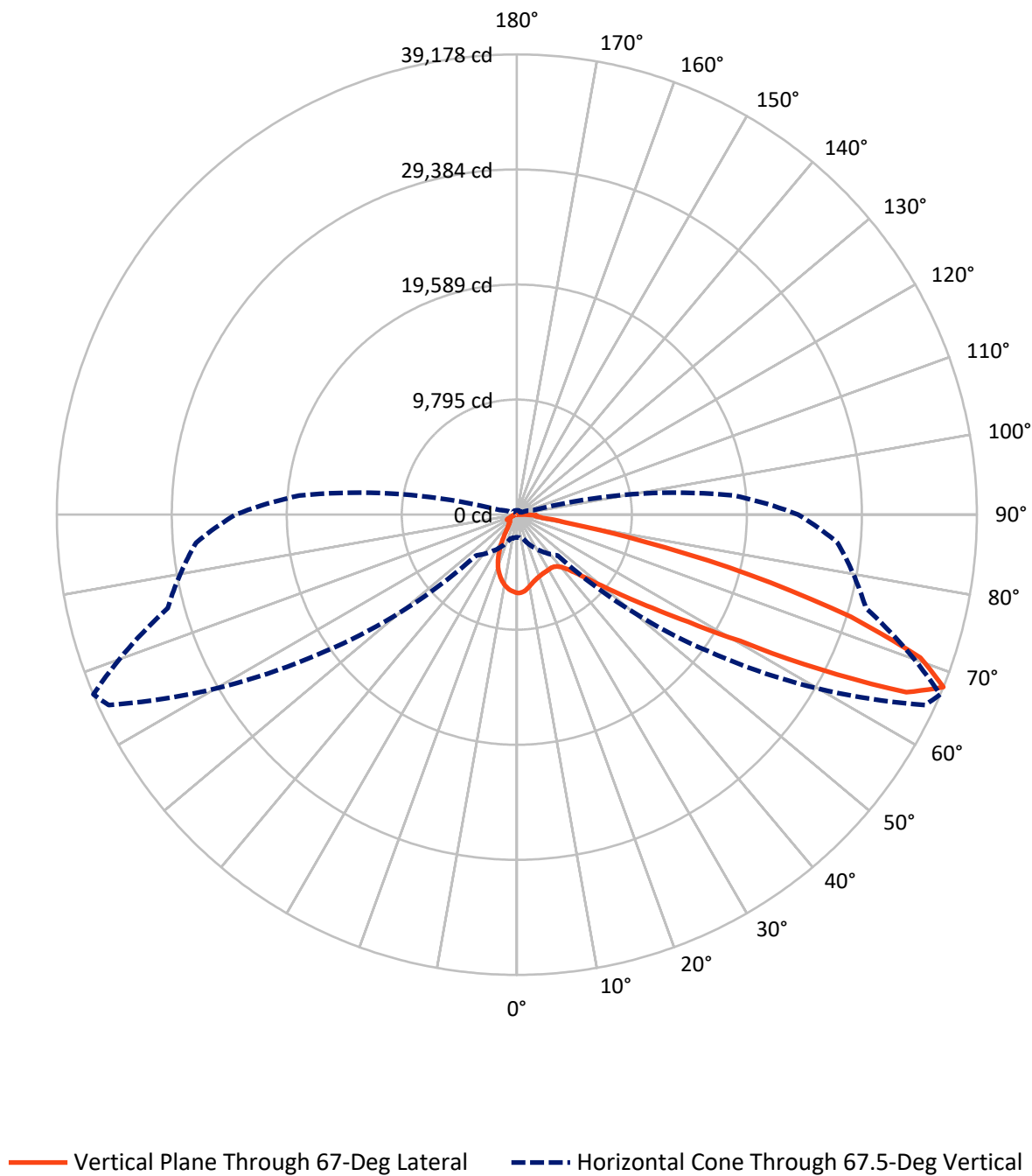


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5123.2	0.0	5123.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	25797.2	0.0	25797.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	30920.4	0.0	30920.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	1.8
10°-20°	1316.6	4.3
20°-30°	1784.7	5.8
30°-40°	2537.1	8.2
40°-50°	4244.6	13.7
50°-60°	6715.0	21.7
60°-70°	8554.2	27.7
70°-80°	4480.7	14.5
80°-90°	718.6	2.3
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°	30920.4	100.0
0°-180°	30920.4	100.0

Coefficient of Utilization



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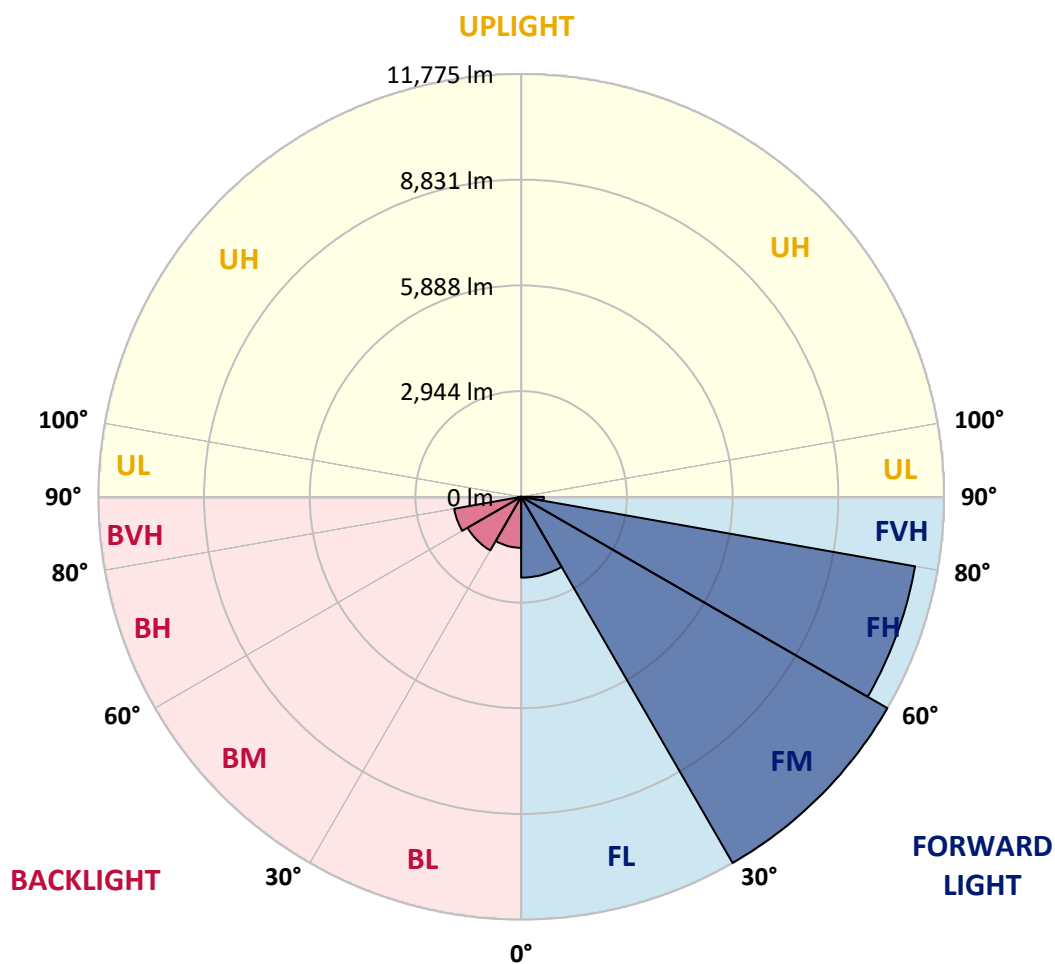
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.3	7.3			
FM	(30°-60°)	11775.1	38.1			
FH	(60°-80°)	11140.0	36.0			G4/12000
FVH	(80°-90°)	631.9	2.0			G4/750
BL	(0°-30°)	1420.0	4.6	B3/2500		
BM	(30°-60°)	1721.5	5.6	B2/2500		
BH	(60°-80°)	1894.9	6.1	B3/2500		G3/2500
BVH	(80°-90°)	86.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4
2.5°	6395.0	6405.7	6439.2	6460.5	6556.6	6597.7	6626.8	6655.7	6660.3	6674.0	6660.3
5°	5724.1	5746.9	5809.5	5879.6	6065.6	6212.1	6366.0	6526.2	6555.1	6658.8	6687.8
7.5°	5204.1	5198.0	5249.9	5333.7	5524.3	5727.2	5997.0	6315.7	6378.2	6611.5	6724.4
10°	4824.5	4819.9	4874.8	4961.7	5143.2	5335.2	5640.2	6076.4	6164.7	6536.8	6759.5
12.5°	4543.9	4545.4	4600.3	4696.4	4880.8	5074.5	5384.1	5844.5	5957.4	6449.9	6796.0
15°	4358.0	4370.1	4414.3	4516.4	4696.4	4890.0	5193.4	5670.7	5797.3	6381.3	6837.2
17.5°	4295.3	4315.2	4330.4	4405.2	4559.2	4752.8	5050.1	5542.6	5676.8	6334.0	6873.7
20°	4353.3	4376.2	4347.2	4373.1	4470.7	4641.5	4937.3	5441.9	5579.3	6280.7	6878.3
22.5°	4601.8	4623.2	4537.7	4463.0	4457.0	4560.7	4844.2	5362.7	5504.5	6241.0	6879.8
25°	5039.5	5053.1	4909.8	4736.1	4566.7	4531.6	4778.7	5307.9	5458.8	6205.9	6850.9
27.5°	5576.1	5586.9	5422.2	5166.0	4826.0	4600.3	4755.8	5275.8	5432.8	6175.5	6802.2
30°	6228.8	6279.1	6058.0	5734.8	5239.2	4803.1	4801.6	5258.9	5403.9	6123.6	6706.0
32.5°	6896.7	6918.0	6765.6	6437.7	5795.7	5159.9	4929.7	5271.2	5396.2	6061.0	6584.1
35°	7573.7	7601.0	7502.0	7238.2	6556.6	5682.9	5179.8	5342.9	5443.6	6039.8	6498.6
37.5°	8450.4	8487.0	8349.8	8044.8	7482.2	6391.8	5596.0	5522.8	5588.4	6100.7	6472.7
40°	9836.4	9819.6	9418.7	8964.2	8494.6	7299.2	6190.6	5827.8	5865.9	6297.3	6552.1
42.5°	11449.8	11408.6	10717.8	10004.3	9607.7	8397.0	6977.4	6356.8	6349.3	6684.7	6831.1
45°	12736.6	12703.0	12080.9	11201.1	10884.0	9647.4	7994.5	7145.2	7088.7	7299.2	7346.5
47.5°	13433.4	13434.9	13076.5	12358.5	12350.7	11236.2	9301.2	8285.6	8188.1	8287.2	8236.9
50°	13189.4	13221.5	13183.3	12954.7	13689.6	13319.0	11007.5	9876.1	9679.4	9776.9	9583.3
52.5°	12009.2	12050.4	12276.2	12626.8	14252.3	15836.5	13514.3	11852.2	11623.5	11588.5	11373.5
55°	9917.3	9967.6	10428.0	11381.1	13784.1	17527.5	17469.6	14371.2	14006.7	13675.9	13584.4
57.5°	6835.7	6919.5	7660.6	9075.6	12270.1	18038.2	22179.6	17962.1	17221.0	16065.3	16086.6
60°	3853.1	3950.7	4824.5	6109.9	9214.4	17483.3	25762.9	23401.0	21836.5	18863.2	19021.8
62.5°	2450.3	2555.6	3218.9	4245.0	5528.9	14494.7	27231.3	30962.4	28975.7	22312.3	22467.8
65°	1983.7	2029.5	2342.1	3504.0	4014.7	8732.5	26116.7	37191.2	36450.2	26690.0	25964.2
67.5°	1936.5	1951.7	2113.4	2941.4	3850.1	4908.4	20831.7	38356.2	39178.0	30778.0	27420.4
70°	1913.5	1967.0	2381.8	2807.2	3687.0	4139.9	12518.6	35163.2	36460.9	31846.9	25482.3
72.5°	928.6	925.5	1198.5	2538.7	4153.5	4293.8	6431.5	28451.1	29753.3	27591.1	20940.0
75°	748.7	684.6	654.1	930.2	3993.4	4434.1	4098.7	19576.8	20519.1	18498.8	12872.3
77.5°	710.5	634.4	580.9	582.5	1687.9	4702.5	3471.9	10835.1	11109.7	8355.8	3526.9
80°	588.6	518.4	480.3	541.3	817.3	4478.3	3754.0	4903.8	4499.7	2052.3	1174.1
82.5°	408.6	372.0	361.4	454.4	654.1	3191.4	4365.5	2634.9	2209.4	1027.7	724.3
85°	260.7	222.7	247.0	330.8	509.2	1473.0	4496.6	2053.8	1633.1	652.6	408.6
87.5°	120.5	97.6	122.0	183.0	332.3	507.7	4278.6	2307.0	1681.8	344.6	257.8
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°	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4	6669.4
2.5°	6672.5	6643.5	6620.7	6578.0	6530.7	6485.0	6443.8	6391.8	6376.7	6362.9	6384.3
5°	6693.9	6665.0	6581.0	6449.9	6305.1	6169.4	6033.7	5917.7	5846.0	5806.4	5829.3
7.5°	6725.9	6684.7	6510.9	6270.0	6009.3	5771.3	5525.9	5329.1	5184.4	5115.7	5135.5
10°	6754.9	6675.5	6391.8	6030.6	5649.4	5295.6	4908.4	4588.2	4350.2	4225.2	4255.6
12.5°	6767.1	6640.4	6225.7	5731.7	5208.7	4690.3	4119.9	3641.2	3299.6	3174.6	3148.8
15°	6779.2	6600.8	6042.8	5391.6	4676.6	3943.1	3144.2	2570.8	2287.3	2224.6	2211.0
17.5°	6782.3	6532.2	5835.4	5022.6	4052.9	3054.2	2150.0	1785.6	1787.1	1887.7	1899.9
20°	6750.2	6430.0	5583.8	4563.8	3305.7	2111.9	1476.0	1413.5	1643.7	1895.3	1925.8
22.5°	6677.1	6294.3	5298.6	4028.5	2450.3	1390.7	1142.1	1210.7	1508.0	1816.0	1851.1
25°	6584.1	6129.7	4961.7	3407.9	1622.4	994.1	957.5	1041.5	1242.8	1448.6	1468.3
27.5°	6457.6	5934.5	4583.5	2697.4	1053.6	818.8	843.3	899.6	981.9	1073.5	1082.6
30°	6294.3	5701.2	4179.5	1967.0	796.0	736.5	771.6	802.1	837.2	889.0	893.5
32.5°	6106.8	5477.0	3764.7	1358.6	706.1	693.8	721.2	736.5	763.9	796.0	799.0
35°	5949.7	5263.6	3334.7	960.6	667.9	661.8	680.0	686.1	712.1	747.2	750.2
37.5°	5859.8	5089.8	2891.0	774.6	641.9	632.8	643.4	643.4	680.0	731.9	739.5
40°	5865.9	4993.7	2447.3	700.0	620.6	608.3	609.8	609.8	657.2	713.6	718.2
42.5°	6032.1	5018.1	2053.8	671.0	603.7	590.1	582.5	587.0	626.7	663.3	666.4
45°	6422.5	5190.4	1684.9	652.6	587.0	582.5	565.8	564.3	579.4	596.2	596.2
47.5°	7062.8	5530.3	1434.8	640.4	573.3	571.8	552.0	532.2	530.7	536.7	536.7
50°	8104.3	6115.9	1267.1	626.7	564.3	552.0	529.2	498.7	488.0	492.5	492.5
52.5°	9665.6	7160.5	1203.1	608.3	544.3	524.6	498.7	468.0	459.0	460.5	460.5
55°	11713.4	8764.6	1193.8	587.0	523.1	491.0	469.6	446.8	436.1	439.1	439.1
57.5°	14215.6	10983.1	1357.1	553.5	494.1	457.5	445.2	430.1	422.4	426.9	425.4
60°	17257.6	13886.3	2012.8	518.4	465.1	426.9	426.9	414.7	408.6	413.2	411.7
62.5°	20761.6	17221.0	2830.1	492.5	434.6	402.5	408.6	402.5	396.4	399.5	397.9
65°	23869.1	19393.8	2650.1	472.6	404.0	379.6	390.4	387.4	382.7	385.8	384.3
67.5°	23959.1	18588.8	1488.2	451.4	375.1	356.8	372.0	370.5	367.4	370.5	369.0
70°	21382.1	15696.1	838.7	411.7	344.6	329.3	350.7	349.2	346.2	352.3	350.7
72.5°	17131.1	11390.2	613.0	362.8	314.1	300.4	324.8	323.3	323.3	332.3	327.8
75°	9857.8	5861.3	489.5	311.1	282.1	271.4	292.9	294.2	297.3	309.5	300.4
77.5°	2810.1	1826.7	399.5	263.8	242.4	237.8	259.2	262.2	263.8	277.5	265.3
80°	1044.5	841.8	329.3	221.1	198.2	199.7	219.6	224.1	225.6	239.4	224.1
82.5°	666.4	555.0	266.8	170.8	155.4	154.0	178.4	184.5	184.5	186.1	176.9
85°	388.9	332.3	201.2	123.5	109.8	105.2	132.6	143.3	138.8	135.7	129.6
87.5°	260.7	228.7	123.5	68.7	59.4	56.4	77.8	85.4	82.4	77.8	73.2
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)