

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: P191508

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T3R-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67597.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

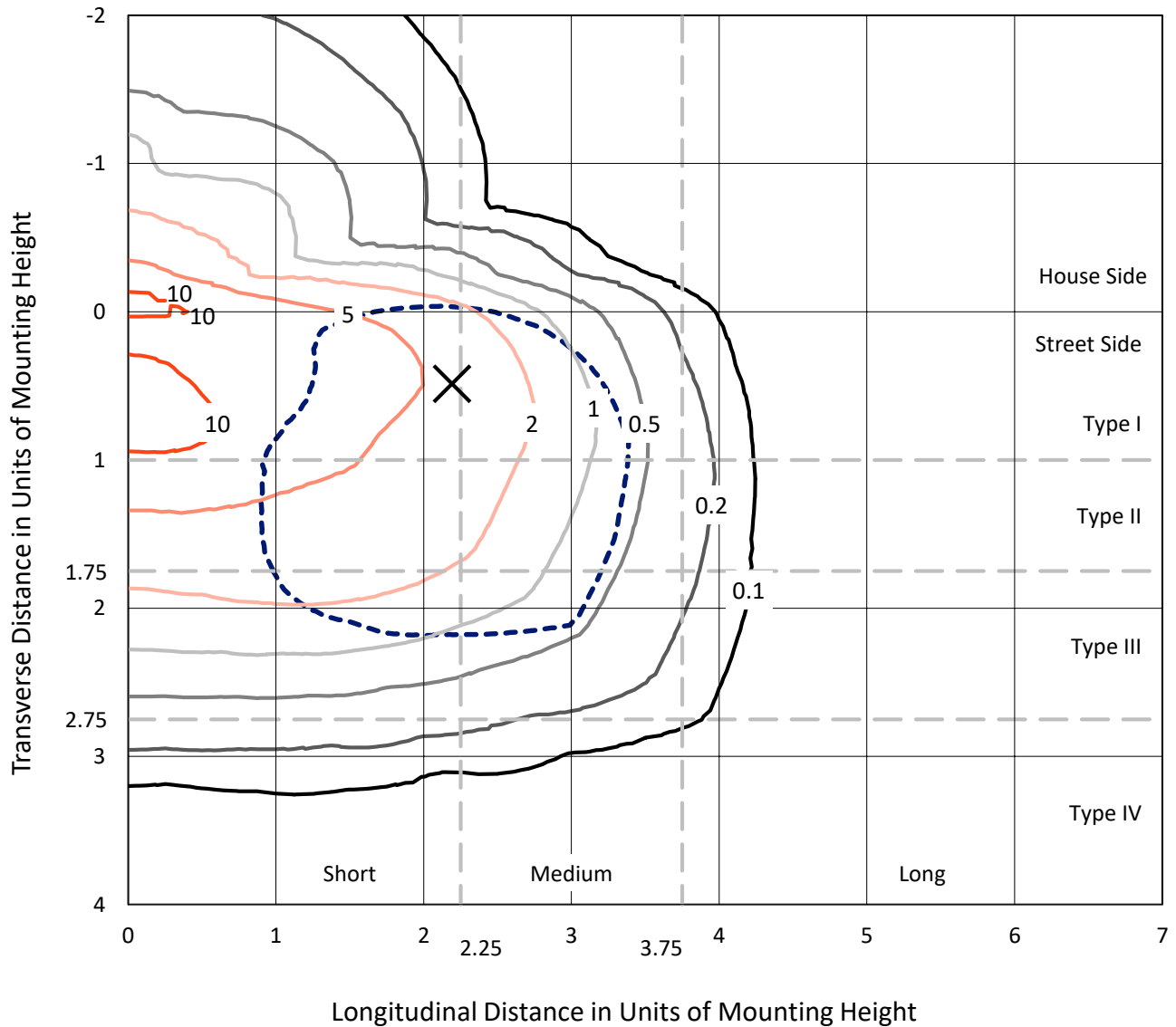
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

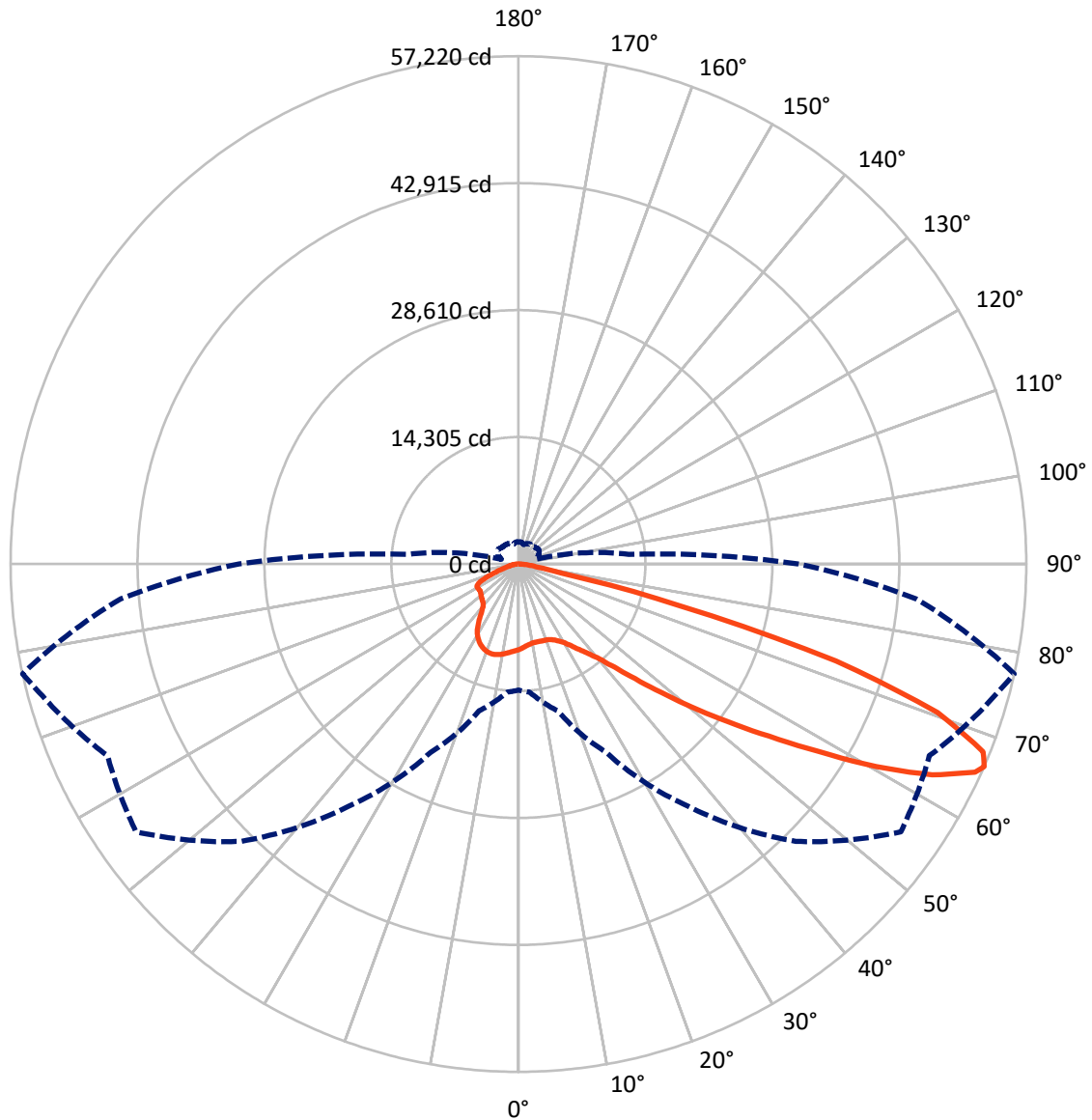
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11548.6	0.0	11548.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	56049.0	0.0	56049.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	67597.6	0.0	67597.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.6	1.3
10°-20°	2428.0	3.6
20°-30°	4143.7	6.1
30°-40°	6633.3	9.8
40°-50°	10247.9	15.2
50°-60°	14535.0	21.5
60°-70°	19443.9	28.8
70°-80°	8444.1	12.5
80°-90°	861.0	1.3
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°	67597.6	100.0
0°-180°	67597.6	100.0

Coefficient of Utilization



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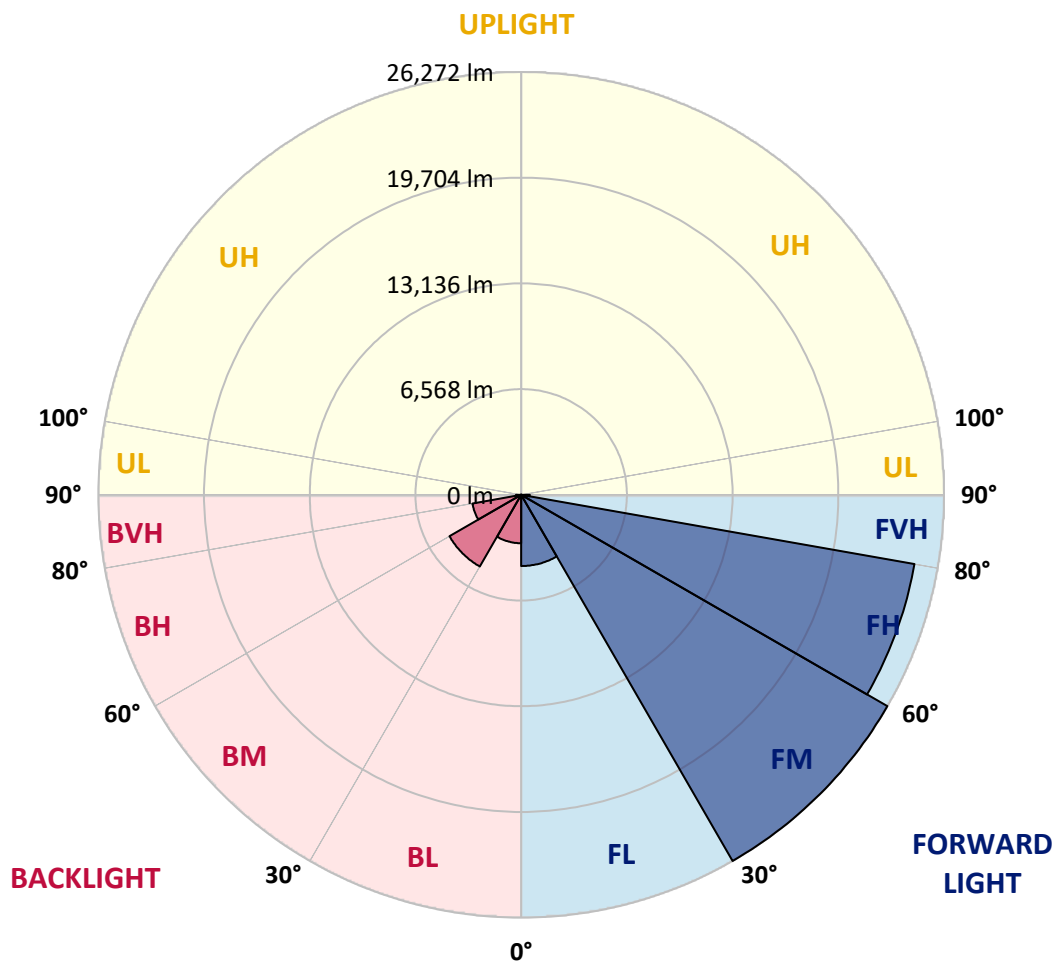
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4424.6	6.5			
FM	(30°-60°)	26272.0	38.9			
FH	(60°-80°)	24812.4	36.7			G5
FVH	(80°-90°)	540.0	0.8			G4/750
BL	(0°-30°)	3007.7	4.4	B4/5000		
BM	(30°-60°)	5144.3	7.6	B4/8500		
BH	(60°-80°)	3075.6	4.5	B4/5000		G4/5000
BVH	(80°-90°)	321.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0
2.5°	8521.5	8579.0	8626.9	8671.6	8761.1	8908.0	9077.3	9214.5	9412.6	9450.9	9556.3
5°	7738.9	7738.9	7777.3	7844.4	7965.7	8186.2	8416.1	8722.7	9153.9	9256.1	9537.2
7.5°	7358.9	7362.1	7384.5	7442.0	7547.3	7748.5	8000.9	8361.8	8946.3	9115.5	9594.7
10°	7499.5	7467.4	7419.6	7390.8	7406.8	7524.9	7764.5	8166.9	8818.6	9035.7	9722.4
12.5°	8285.1	8224.4	8058.4	7838.0	7627.2	7541.0	7681.4	8074.4	8764.2	9016.6	9891.7
15°	9569.1	9543.5	9233.8	8777.0	8266.0	7838.0	7742.2	8039.2	8770.6	9038.9	10092.9
17.5°	11178.8	11143.7	10734.9	10070.5	9236.9	8403.3	7956.1	8067.9	8793.0	9077.3	10287.7
20°	12804.6	12695.9	12255.3	11463.1	10393.2	9173.0	8310.7	8141.4	8821.7	9118.8	10492.2
22.5°	14018.3	13928.9	13532.8	12763.1	11530.2	10064.2	8786.5	8269.1	8914.3	9240.1	10744.5
25°	15085.0	15091.5	14698.6	13954.4	12680.0	11009.6	9399.8	8610.9	9150.7	9489.3	11089.4
27.5°	16404.1	16327.5	15960.2	15222.4	13817.1	11964.5	10140.8	9080.4	9502.0	9843.8	11543.0
30°	17981.9	17927.7	17502.9	16666.1	15078.7	12989.8	10987.2	9626.6	9955.6	10310.1	12137.0
32.5°	19837.7	19812.1	19371.3	18295.0	16535.1	14197.1	11980.5	10348.5	10632.7	11000.0	12989.8
35°	22015.9	22019.1	21498.5	20205.0	18128.9	15602.5	13108.0	11277.8	11456.7	11840.0	14005.5
37.5°	23357.4	23520.3	23325.5	22006.3	19933.5	17173.9	14570.8	12510.7	12395.7	12782.2	15094.7
40°	23644.9	23842.9	24459.4	23788.6	21952.1	18905.1	15867.6	13695.7	13552.0	14024.7	16496.8
42.5°	23242.5	23517.1	24820.3	25293.0	24095.2	21038.6	17611.5	15455.6	15273.5	15909.1	18240.7
45°	23002.9	23207.3	24714.9	26075.5	25954.1	23450.0	19831.3	17665.7	17598.7	18432.3	20252.9
47.5°	22587.7	22772.9	24223.0	26257.5	27046.4	25660.3	22498.3	20367.9	20498.8	21591.1	22523.8
50°	22811.3	22887.9	23673.6	25794.4	27362.6	27279.6	25478.2	23498.0	23945.1	25308.9	25094.9
52.5°	22779.3	22977.3	23609.7	25034.3	27404.1	28279.3	28413.5	26988.9	27931.2	29496.2	27947.1
55°	18416.4	18780.5	22859.2	24842.6	27551.1	29259.9	31026.1	30668.4	32425.1	34248.8	31166.7
57.5°	17586.0	17815.9	20077.3	25245.1	28330.4	31131.6	33932.6	34718.3	37656.8	39774.4	35088.8
60°	17423.0	17707.3	20048.5	25736.9	29911.4	34181.8	38241.3	39621.0	44022.4	46341.1	39637.0
62.5°	16915.2	17221.8	19860.1	25673.0	32156.8	38401.0	43757.2	44833.6	50058.9	52313.9	43441.0
65°	15305.5	15592.9	18323.7	24641.4	33670.7	42904.5	50285.7	49611.8	54824.3	56520.3	45338.2
66°	14203.6	14484.6	17113.3	23427.7	33319.3	44182.1	52598.1	51090.6	55891.1	57219.8	44967.8
67.5°	12188.2	12408.5	14762.5	20709.6	31450.9	44539.8	54543.2	52202.1	56002.9	56472.4	42850.2
70°	7700.7	7764.5	9594.7	14296.1	23807.7	38627.7	51582.4	49442.5	51384.5	50113.2	35922.5
72.5°	3340.9	3318.6	4605.7	7272.7	13478.5	25919.0	41725.9	40796.4	40307.7	37407.7	25146.1
75°	1858.9	1884.5	2392.3	3376.0	5477.6	12731.1	27295.6	26120.2	22054.3	18818.8	11402.4
77.5°	1491.6	1526.8	1983.4	2395.4	2459.4	4439.6	12772.7	10393.2	6257.0	5020.9	3168.4
80°	1178.5	1242.5	1731.1	1865.2	1657.7	1830.2	4126.6	3299.3	2475.3	2271.0	1641.7
82.5°	932.6	977.3	1485.2	1411.8	1159.4	1232.9	1977.1	1925.9	1609.7	1466.0	948.6
85°	670.7	753.8	1220.1	1063.6	760.2	830.4	1312.8	1258.4	923.0	753.8	418.4
87.5°	274.7	357.7	862.3	705.8	424.8	386.5	654.8	616.4	437.6	319.4	207.6
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°	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0	9633.0
2.5°	9623.4	9700.0	9799.1	9859.7	9891.7	9914.0	9949.2	9945.9	9955.6	9958.7	9971.5
5°	9687.2	9815.0	9958.7	9997.1	9997.1	9962.0	9926.8	9869.3	9847.0	9840.6	9847.0
7.5°	9853.4	9993.9	10118.4	10073.7	9978.0	9837.4	9655.3	9495.6	9409.4	9380.7	9374.3
10°	10064.2	10233.4	10284.5	10115.2	9834.2	9495.6	9134.7	8872.8	8722.7	8681.2	8668.4
12.5°	10319.7	10479.4	10409.1	10051.4	9530.7	8984.6	8486.4	8067.9	7754.9	7656.0	7649.5
15°	10600.7	10725.3	10479.4	9853.4	9077.3	8272.4	7384.5	6662.6	6272.9	6148.3	6138.8
17.5°	10862.6	10926.5	10437.9	9508.4	8409.7	7106.5	5928.0	5372.2	5238.1	5270.0	5276.4
20°	11086.2	11086.2	10297.3	9013.3	7358.9	5570.3	4826.1	4816.5	4912.3	5008.2	5027.3
22.5°	11332.1	11185.3	10051.4	8313.8	5870.5	4557.8	4449.2	4538.6	4647.2	4752.6	4768.6
25°	11635.6	11265.1	9709.6	7253.4	4615.2	4139.4	4180.9	4254.4	4308.7	4375.8	4385.3
27.5°	11974.2	11367.3	9259.2	5793.9	4005.3	3877.5	3909.4	3935.0	3928.5	3954.1	3960.6
30°	12379.8	11485.5	8642.8	4529.0	3752.9	3653.9	3596.4	3574.1	3574.1	3615.5	3631.6
32.5°	12922.7	11661.1	7758.2	3880.7	3631.6	3494.2	3308.9	3225.9	3257.8	3398.3	3430.4
35°	13520.0	11849.6	6560.4	3660.3	3606.0	3420.7	3133.3	2980.0	2983.1	3114.1	3155.6
37.5°	14171.6	12089.1	5247.6	3618.8	3663.5	3423.9	3040.6	2829.9	2743.7	2743.7	2759.6
40°	15005.3	12335.0	4248.0	3647.5	3784.8	3462.3	2992.7	2711.6	2468.9	2475.3	2488.1
42.5°	16091.1	12545.9	3711.4	3708.2	3931.8	3513.3	2989.6	2555.1	2344.4	2488.1	2619.1
45°	17298.5	12651.2	3475.1	3762.5	4050.0	3545.3	2938.4	2529.7	2360.4	2788.4	3037.4
47.5°	18687.9	12590.6	3344.0	3781.6	4078.7	3545.3	2880.9	2590.3	2472.2	3229.0	3519.8
50°	20211.4	12414.9	3216.4	3743.3	4069.1	3538.9	2935.3	2651.0	2513.7	3305.8	3507.0
52.5°	22003.2	12268.0	3082.2	3660.3	4002.0	3503.8	2999.1	2625.4	2382.7	3005.5	3146.1
55°	24047.3	12309.5	2932.1	3542.1	3896.6	3436.7	2976.8	2523.2	2245.4	2647.8	2734.0
57.5°	26659.9	12804.6	2753.2	3392.0	3752.9	3324.9	2896.9	2475.3	2203.8	2401.9	2452.9
60°	29576.1	13666.9	2529.7	3241.8	3574.1	3146.1	2836.2	2497.6	2223.0	2382.7	2408.2
62.5°	31716.0	14168.4	2338.0	3021.5	3331.3	2948.0	2759.6	2526.4	2274.1	2449.8	2443.4
65°	32297.3	13344.4	2098.5	2698.9	3002.4	2740.4	2663.8	2558.4	2296.4	2504.1	2475.3
66°	31482.8	12456.5	1993.0	2548.8	2836.2	2638.2	2615.9	2555.1	2286.9	2510.4	2462.5
67.5°	29505.8	10635.9	1810.9	2328.4	2571.2	2484.8	2539.2	2526.4	2261.3	2504.1	2437.0
70°	24063.3	7256.7	1549.1	1938.7	2139.9	2187.9	2392.3	2424.2	2178.3	2392.3	2245.4
72.5°	16813.0	4420.5	1370.2	1504.4	1731.1	1865.2	2191.1	2283.6	2066.5	2088.9	1948.3
75°	8125.4	2347.6	1242.5	1165.8	1344.7	1558.7	1948.3	2092.0	1890.8	1747.1	1696.0
77.5°	2532.8	1434.1	1054.0	939.1	1054.0	1258.4	1628.9	1833.3	1683.3	1462.8	1443.7
80°	1360.6	1054.0	811.3	753.8	833.6	986.9	1280.7	1529.9	1446.9	1312.8	1172.2
82.5°	897.5	683.5	600.5	584.5	635.6	753.8	951.8	1268.0	1268.0	1124.2	817.6
85°	463.1	418.4	412.0	412.0	444.0	501.5	648.3	977.3	1041.3	594.0	491.8
87.5°	230.0	239.6	223.6	233.1	249.1	245.9	309.9	491.8	587.7	360.9	300.2
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)