

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: P193296

Luminaire Tested: **GLEON-AF-08-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30187.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 257
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



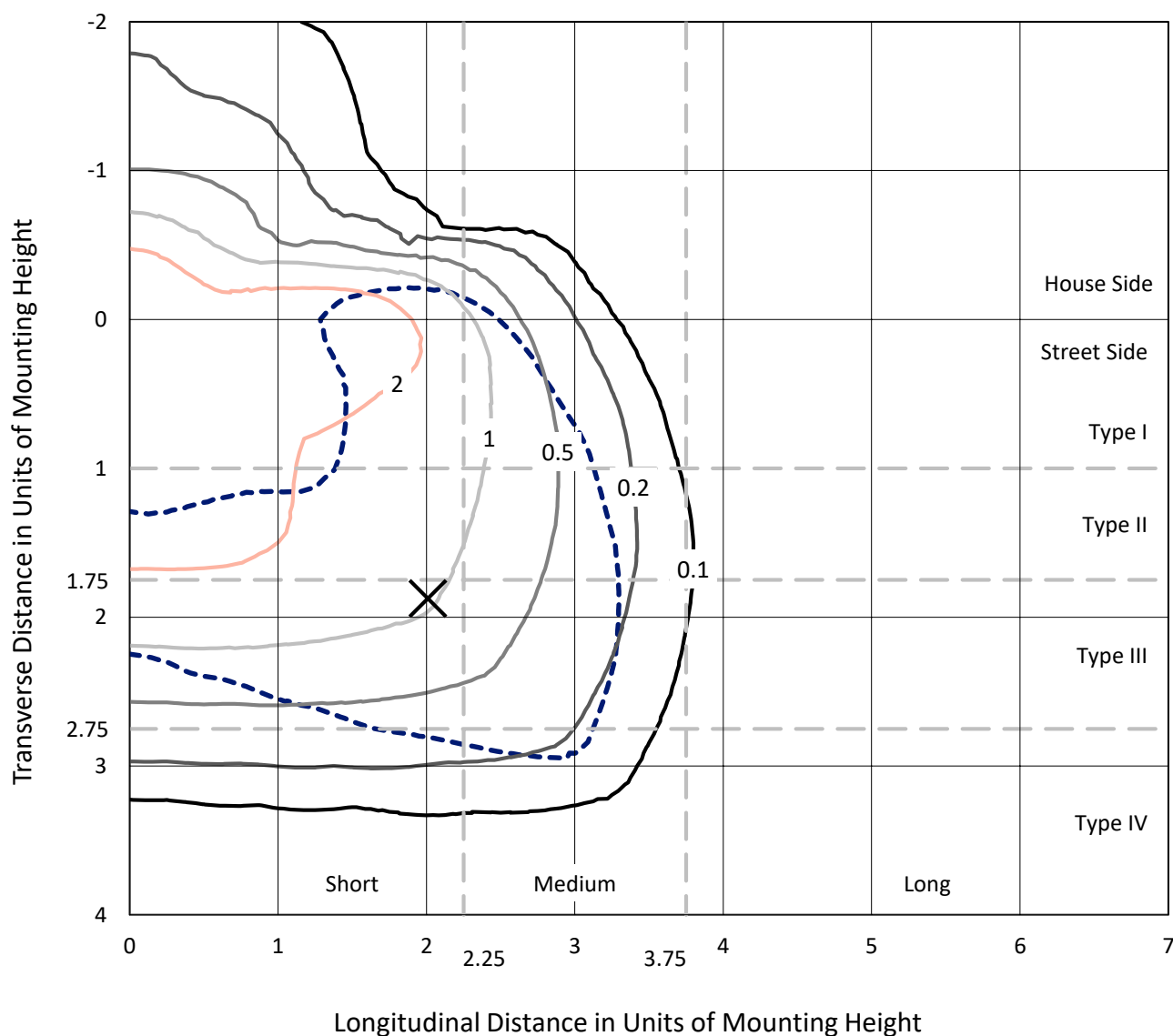
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

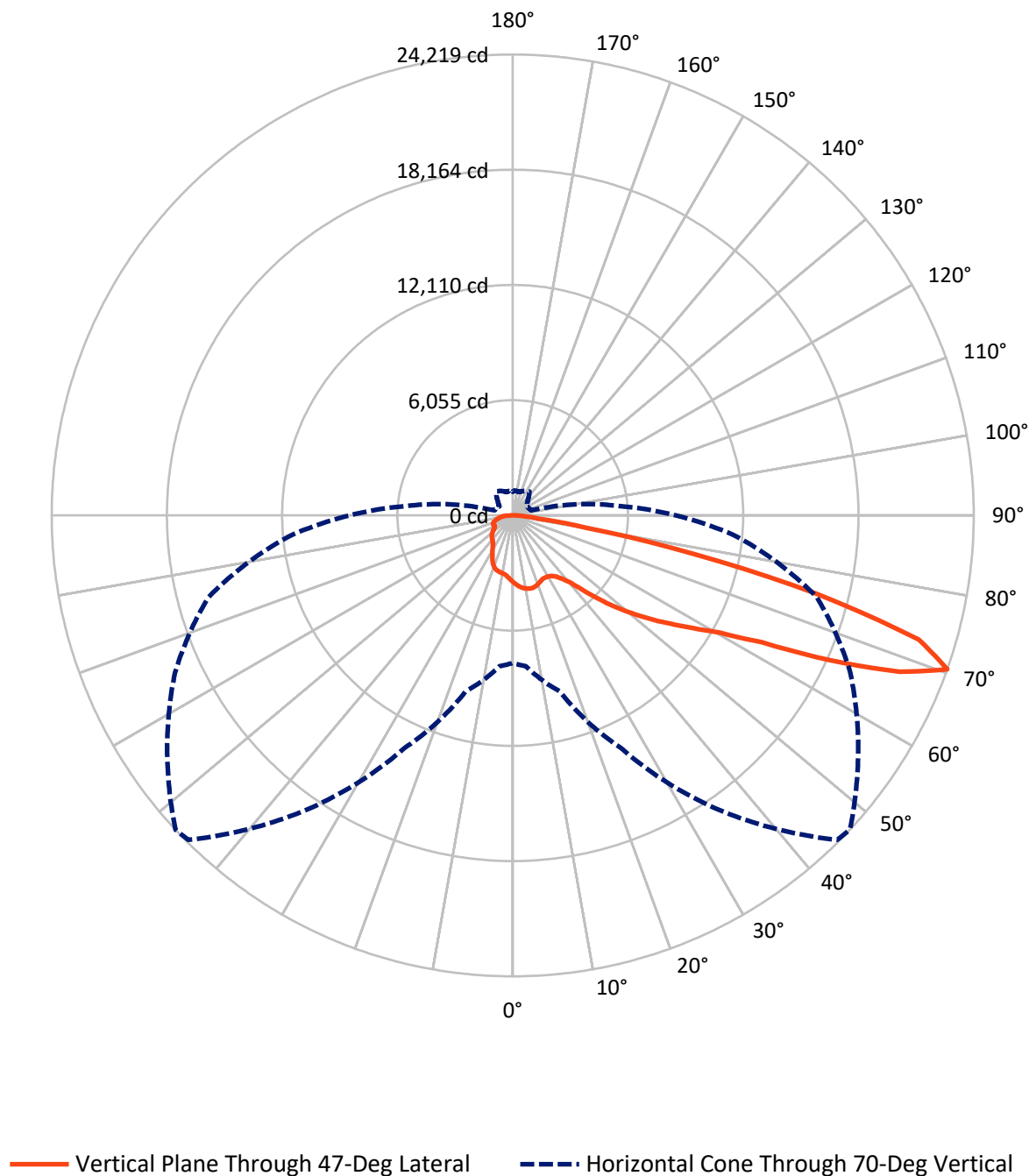


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6297.7	0.0	6297.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	23889.6	0.0	23889.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	30187.2	0.0	30187.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.6	1.1
10°-20°	984.6	3.3
20°-30°	1454.0	4.8
30°-40°	2113.4	7.0
40°-50°	3803.3	12.6
50°-60°	6588.8	21.8
60°-70°	9404.1	31.2
70°-80°	4827.6	16.0
80°-90°	675.9	2.2
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°	30187.2	100.0
0°-180°	30187.2	100.0

Coefficient of Utilization



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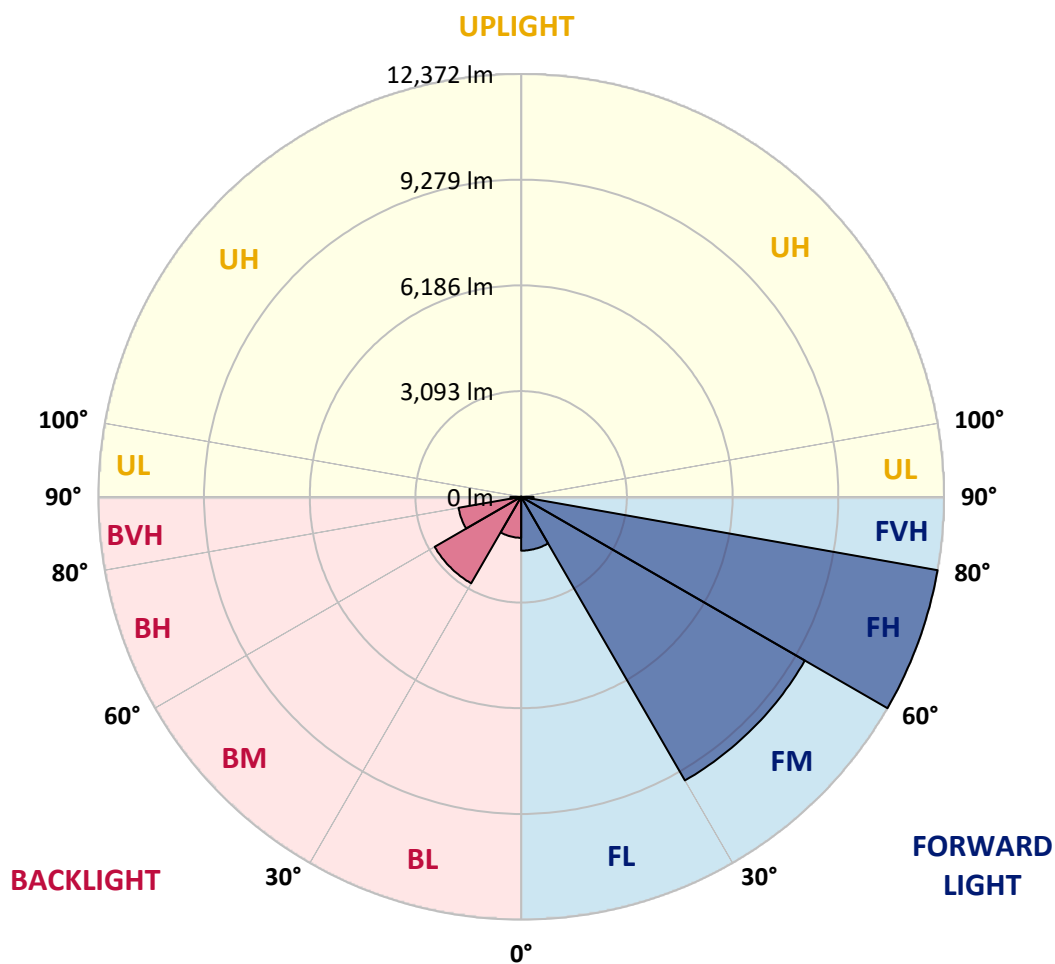
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.1	5.2			
FM	(30°-60°)	9582.3	31.7			
FH	(60°-80°)	12371.6	41.0			G5
FVH	(80°-90°)	360.7	1.2			G3/500
BL	(0°-30°)	1199.1	4.0	B3/2500		
BM	(30°-60°)	2923.2	9.7	B3/5000		
BH	(60°-80°)	1860.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	315.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3708.3	3700.9	3698.0	3692.1	3684.8	3648.0	3640.7	3614.3	3577.5	3539.4	3499.7
5°	3952.0	3950.6	3934.4	3905.0	3858.1	3777.3	3758.2	3693.6	3606.9	3523.2	3439.5
7.5°	4166.5	4153.3	4122.5	4063.7	3981.4	3871.3	3844.9	3755.2	3636.2	3521.8	3408.7
10°	4323.6	4316.3	4248.8	4167.9	4060.7	3938.8	3907.9	3808.1	3677.4	3532.1	3391.1
12.5°	4413.2	4398.6	4320.6	4223.8	4096.0	3977.0	3946.2	3844.9	3698.0	3532.1	3366.1
15°	4407.3	4397.0	4319.2	4213.5	4084.2	3980.0	3952.0	3850.8	3693.6	3517.4	3333.7
17.5°	4289.8	4294.2	4228.2	4123.9	4018.1	3938.8	3913.8	3819.9	3664.2	3488.0	3295.6
20°	4084.2	4104.8	4060.7	3968.2	3909.6	3855.1	3839.0	3759.7	3618.6	3445.4	3254.5
22.5°	3878.6	3897.8	3880.2	3802.2	3793.5	3761.1	3752.3	3695.0	3579.0	3418.9	3229.4
25°	3727.4	3745.0	3742.0	3674.5	3700.9	3699.4	3692.1	3664.2	3570.3	3418.9	3233.8
27.5°	3686.2	3692.1	3686.2	3624.5	3661.3	3690.7	3684.8	3680.4	3596.7	3461.6	3289.7
30°	3827.3	3818.4	3772.8	3648.0	3681.8	3722.9	3717.1	3720.1	3675.9	3573.1	3414.6
32.5°	4389.7	4350.0	4206.2	3855.1	3765.5	3787.6	3790.5	3839.0	3846.4	3745.0	3608.4
35°	5231.3	5187.2	5000.7	4410.2	4025.4	3949.0	3949.0	4022.6	4066.6	3991.7	3909.6
37.5°	6122.7	6074.3	5974.3	5179.9	4571.9	4229.7	4222.4	4273.6	4336.8	4354.4	4375.1
40°	7136.0	7084.6	7112.6	6043.3	5334.0	4715.7	4611.5	4574.8	4745.1	4858.2	5022.6
42.5°	8244.8	8221.3	8231.6	7005.2	6202.0	5442.8	5294.3	5104.9	5310.5	5511.7	5856.9
45°	9271.4	9292.0	9281.7	8034.8	7168.4	6329.7	6172.6	5805.5	6006.6	6351.8	6914.3
47.5°	10170.2	10085.0	10217.2	9159.8	8250.7	7322.5	7128.7	6636.7	6840.8	7266.8	8218.4
50°	11261.4	11249.7	11055.7	10660.8	9559.2	8319.8	8065.6	7495.8	7813.0	8404.9	9861.7
52.5°	12408.3	12195.4	12017.8	11828.3	10947.1	9341.8	9030.5	8352.0	8955.7	9700.2	11865.0
55°	12643.4	12547.9	12768.1	13086.8	12285.0	10403.6	10040.9	9425.6	10242.2	11180.6	14175.1
57.5°	13145.6	13144.1	13599.4	14167.7	13662.6	11530.1	11164.4	10722.3	11688.8	12876.9	16627.7
60°	13484.9	13580.4	14426.3	15529.2	15015.2	12831.3	12495.0	12218.9	13333.6	14772.8	18912.9
62.5°	13662.6	13791.8	14946.1	16081.5	16927.3	14997.6	14661.3	14263.2	15510.1	16852.3	20249.3
65°	12923.8	13178.0	14865.4	16558.7	18601.5	18509.1	18357.7	17658.7	18231.4	18495.9	19766.2
67.5°	10879.5	11139.5	13104.4	16113.7	19797.0	21895.7	21928.0	20734.0	19905.7	18636.8	16618.9
70°	7751.4	7955.5	9581.3	13509.8	18886.4	24108.8	24219.1	22151.2	19572.2	16527.8	11610.9
72.5°	3680.4	3805.2	5344.3	8792.6	14987.3	22089.5	22302.4	20341.9	16642.4	12236.5	6334.2
75°	1352.6	1390.8	1806.4	3740.6	8692.7	16289.9	16541.1	14582.0	11032.2	6091.9	2413.0
77.5°	810.7	835.7	1013.4	1578.8	3418.9	9311.1	9682.7	7930.6	4821.5	2267.5	1186.7
80°	566.8	584.5	727.0	982.5	1615.5	3548.2	3878.6	3236.8	1921.0	1434.8	863.5
82.5°	383.3	392.1	511.2	663.9	1073.6	1267.4	1367.3	1439.3	1295.4	1067.7	547.8
85°	251.2	259.9	346.6	437.7	682.9	655.0	669.6	847.5	945.7	725.5	304.0
87.5°	143.9	149.8	208.5	233.5	334.9	277.5	280.5	446.5	605.1	489.1	185.0
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°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3489.4	3470.4	3427.8	3401.3	3376.3	3370.4	3360.2	3358.7	3357.3	3357.3	3352.8
5°	3411.6	3379.3	3313.2	3276.4	3245.6	3242.7	3241.2	3248.6	3251.5	3254.5	3250.0
7.5°	3361.7	3317.6	3235.3	3182.5	3145.8	3137.0	3151.7	3185.5	3207.5	3216.3	3211.9
10°	3330.9	3276.4	3181.1	3123.7	3092.9	3088.5	3107.6	3147.2	3192.8	3210.4	3209.0
12.5°	3295.6	3233.8	3132.6	3072.4	3054.8	3063.5	3088.5	3125.3	3172.3	3200.1	3201.7
15°	3260.3	3188.4	3084.1	3031.2	3023.9	3035.7	3059.2	3087.0	3123.7	3151.7	3154.7
17.5°	3217.8	3142.9	3038.6	2984.2	2978.4	2984.2	2985.7	3000.4	3023.9	3050.3	3057.6
20°	3172.3	3095.9	2987.1	2932.8	2906.4	2883.0	2856.5	2859.5	2866.8	2893.1	2899.0
22.5°	3139.9	3063.5	2947.5	2872.7	2802.2	2731.6	2678.7	2671.4	2674.3	2696.4	2703.7
25°	3142.9	3062.1	2937.2	2808.0	2653.8	2540.8	2470.3	2458.5	2457.0	2473.2	2483.5
27.5°	3200.1	3119.4	2975.4	2741.9	2492.2	2324.8	2249.9	2241.1	2229.3	2233.8	2245.5
30°	3327.9	3252.9	3068.0	2674.3	2317.5	2113.3	2035.5	2026.6	2010.6	2003.2	2012.0
32.5°	3536.4	3474.8	3203.1	2609.7	2142.7	1932.7	1853.4	1834.4	1824.0	1815.3	1822.6
35°	3883.1	3856.7	3383.6	2539.3	1988.5	1793.2	1721.3	1691.9	1677.1	1693.3	1705.1
37.5°	4426.4	4441.1	3620.2	2429.1	1869.5	1700.6	1640.4	1606.6	1584.6	1597.8	1611.0
40°	5196.0	5206.3	3881.6	2273.4	1766.7	1646.3	1581.7	1550.8	1520.1	1496.6	1495.1
42.5°	6206.4	6102.1	4138.5	2104.6	1647.7	1612.5	1540.5	1502.5	1455.5	1390.8	1377.5
45°	7404.8	7039.1	4333.9	1910.7	1514.2	1571.4	1495.1	1442.2	1368.8	1298.2	1290.9
47.5°	8785.3	8045.1	4429.4	1709.5	1389.3	1511.2	1439.3	1355.6	1263.0	1227.7	1223.3
50°	10471.3	9239.1	4474.9	1514.2	1280.6	1432.0	1358.4	1260.1	1182.1	1174.9	1170.5
52.5°	12390.8	10675.4	4489.6	1354.0	1191.0	1329.1	1292.4	1196.9	1135.2	1141.1	1141.1
55°	14399.9	12158.7	4289.8	1238.0	1108.8	1223.3	1248.3	1172.0	1120.6	1144.1	1152.9
57.5°	16244.4	13473.1	3661.3	1148.5	1031.0	1142.7	1232.2	1195.4	1160.3	1255.7	1261.5
60°	17660.1	14250.0	2734.5	1067.7	973.7	1114.7	1274.7	1285.0	1293.8	1521.6	1552.3
62.5°	17956.9	13991.5	1879.8	1004.5	947.3	1138.2	1352.6	1354.0	1343.8	1502.5	1521.6
65°	16595.4	12357.0	1367.3	969.2	925.2	1180.8	1418.7	1387.8	1320.3	1440.7	1405.5
67.5°	13179.4	9309.6	1138.2	942.9	892.8	1177.9	1489.2	1418.7	1307.1	1411.3	1354.0
70°	8554.7	5629.2	1013.4	920.8	854.7	1122.0	1530.2	1415.8	1268.9	1313.0	1245.3
72.5°	4173.8	2517.3	929.7	888.5	815.1	1044.2	1528.9	1389.3	1229.2	1226.3	1189.7
75°	1633.1	1152.9	853.4	840.1	747.6	956.0	1487.7	1351.1	1182.1	1135.2	1122.0
77.5°	956.0	822.4	756.3	768.1	666.7	867.9	1427.5	1285.0	1117.6	1061.8	1047.1
80°	696.1	615.3	644.7	663.9	569.8	779.8	1346.7	1204.2	1045.6	1073.6	1053.0
82.5°	446.5	396.5	522.8	541.9	474.4	690.3	1258.5	1119.2	944.3	857.6	837.2
85°	227.6	251.2	389.2	412.7	365.7	566.8	1151.4	1006.1	829.9	713.8	725.5
87.5°	127.8	171.9	248.2	277.5	258.5	436.2	934.0	829.9	677.1	550.7	484.7
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)